Search history

Search 1: FT=(seal* and ((no or without) W4 pillar) and (duct or tube or profile)) (Results 269)

Search 2: (1) and FT=car (Results 55)

Search 3: FT=((seal* or strip) and car and collector) and IC=B60J (Results 93)

Search 4: FT=((Seal* or strip) and (car or vehicle) and ((no or without) W5 pillar)) and IC=B60J (Results 178)

Search 5: FT=(weather and strip and (collector or cup)) and IC=B60J (Results 147)

Search 6: FT=(seal* and (collector or cup or receiver) and (duct or tube or profile or guide) and (car or vehicle) and (water or dust) and door) (Results 6145)

Search 7: (6) and IC=B60J (Results 147)

- session log created:31 October 2017 03:10:38
- Update information:

PatBase Coverage at Update 2017 Week 43 (Year 2017 Week 43)

PatBase Coverage includes 100+ million documents from over 100 patent–issuing authorities and includes patent applications, granted patents, utility models and designs â€“ detailed in the below coverage listings.

Major countries

Publishing body	Document type	Bibliographic publication date		Full–Text publication date	
		Earliest	Latest	Earliest	Latest
CN China	Patent Applications	19850910	20171027	19850910	20171027
	Patents	19930106	20171027	19930106	20171027
	Utility Model Applications	19850409	19921230	19850409	19921230
	Utility Models	19930106	20171027	19930106	20171027
	Designs	19850910	20171027	19850910	20150819
DE Germany	Patent Applications	19211221	20171026	19650317	20171026
	Patents	18770101	20171026	19200113	20171026
	Utility Models	19280626	20171026	19610831	20171026
	EP/WO Patents	19871217	20140410		
EP European Patent Office	Patent Applications	19781220	20171025	19781220	20171025
	Patents	19800109	20171025	19800109	20171025
FR France	Patent Applications	19690307	20171027	19810102	20171006
	Patents	18550227	20171027	19600502	20171027
	Utility Model Applications	19720107	20171027	19800104	20171006
	Utility Models	19730112	20171027	19690802	20171027
		19830209	20171018		

GB United Kingdom	Unpublished Patent Applications				
	Patent Applications	19790104	20171025	19790104	20171011
	Patents	17820704	20171025	19020911	19811216
JP Japan	Patent Applications	19710116	20171026	19930108	20171019
	Patents	19281026	20171011	19960529	20171011
	Utility Model Applications	19710723	20060209	19990817	20031107
	Utility Models	19640805	19960329		
	Registered Utility Models	19940726	20171012	19940726	20101216
	Designs	20141110	20171023		
KR Republic of Korea	Patent Applications	19781209	20171027	19940103	20171027
	Patents	19700820	20171027	19970104	20171027
	Utility Model Applications	19781127	20171027	19940730	20171027
	Utility Models	19780110	20171027	19970104	20171027
US United States of America	Patent Applications	20010315	20171026	20010315	20171026
	Patents	18360101	20171024	18560617	20171024
	Designs	18650912	20171024	19770719	20171024
WO World Intellectual Property Organization (WIPO)	Patent Applications	19781019	20171026	19781019	20171026
	Designs	20151023	20171027	20151023	20171027

20171028 21:00

- Login to Patbase:31 October 2017 03:10:38
- **search:** SS1 FT=(seal* and ((no or without) W4 pillar) and (duct or tube or profile)) (Results 269)
- List: SS1 1–25 (FT=(seal* and ((no or without) W4 pillar) and (duct or tube or profile))) (Results 269)

0) DE1163125A –

1) Family number: 21621009 (DE1163125A) © PatBase

Family:

Publication number	Publication date	Application number	Application date
DE1163125 A	00000000		00000000
DE1163125 B	00000000		00000000

Probable Assignee: PILLSBURY CO

Assignee(s):(std)**:** PILLSBURY CO

Assignee(s): THE PILLSBURY COMPANY

Inventor(s):(std)**:** FORKNER JOHN H

International class (IPC 8–9)**:** A23B4/03 A23B4/033 A23B7/02 A23L3/40 A23L3/42 A23L3/52 (Advanced/Invention); A23B4/03 A23B7/02 A23L3/40 (Core/Invention)

International class (IPC 1–7)**:** A23B7/02 A23L1/00 A23L3/00 B01D12/00 F26B3/02 F26B5/12

CPC: A23B4/03 A23B4/031 A23B4/033 A23B7/02 A23L3/40 A23L3/42 A23L3/52

European class: A23B4/03 A23B4/033 A23B4/03M A23B7/02 A23L3/40 A23L3/42 A23L3/52

Classification Explorer

Forward Citations: WO8601686, GB2176991, GB2176991,

Abstract:
Source: DE1163125A (Claim1) Verfahren zur Trocknung von feuchten Lebensmitteln, dadurch gekennzeichnet, dass Teilchen eines feuchten Nahrungsmaterials in ein heisses Medium unter Teilvakuum eingehuellt werden, wobei das Medium aus einem schaum aehnlichen Gemisch aus Wasserdampf und heissem Oel besteht und das Oel sich auf einer Temperatur wesentlich oberhalb des Verdampfungspunktes der Feuchtigkeit in dem Material bei dem ange– legten Teilvakuum befindet, so dass rasch Feuchtig– keit aus dem Material entwickelt wird und an schliessend freies Oel von dem getrockneten Ma terial albgetrennt wird.

Machine translation: (Claim1) A process for drying of moist food, characterized in that particles of a moist food material in a hot medium are eingehuellt under partial vacuum, wherein the medium consists of a foam–like mixture of steam and hot oil and the oil substantially at a temperature above the point of vaporization of moisture in the material in the in–laid partial vacuum is such that developed rapidly moisture from the material and is albgetrennt material to closing free oil from the dried Ma.

0) DE345760A – REKTIFIKATIONSSAEULE, VORNEHMLICH FUER DIE ERZE...

2) Family number: 18427290 (DE345760A) © PatBase

Title: REKTIFIKATIONSSAEULE, VORNEHMLICH FUER DIE ERZEUGUNG VON SPRENGLUFT Rectification column, PRIMARILY FOR THE PRODUCTION OF AIR BLASTING (Machine translation)

Priority: 19170216

Family:

Publication number	Publication date	Application number	Application date
DE345760 A	19211216		19170216

Probable Assignee: WALTER LACHMANN

Assignee(s):(std)**:** WALTER LACHMANN

International class (IPC 8–9): F25J3/04 (Advanced/Invention); F25J3/04 (Core/Invention)

CPC: F25J3/04793 F25J3/04412 F25J3/04812 F25J3/04872 F25J3/04896 F25J2200/54 F25J2215/02 F25J2215/50 F25J2245/02 F25J2245/50 F25J2290/62

European class: F25J3/04F F25J3/04F2 F25J3/04Z2G F25J3/04Z2M F25J3/04Z4A F25J3/04Z4C R25J200/54 R25J215/02 R25J215/50 R25J245/02 R25J245/50 R25J290/62

Classification Explorer

Forward Citations: EP2211131,

Abstract:
Source: DE345760A (Claim 1) 1. PATENT−ANSPRuecHE: r. Rektifikationssaeule (b) zur Zerlegung von atmosphaerischer Luft und anderen Gas gemischen, dadurch gekennzeichnet, dass an einer mittleren Stelle der Saeule ein Auf fangbehaelter (g) mit Ablassvorrichtung (1a, i) zur Entnahme von fluessigem, schwerer fluechtigem Produkt (io, gegebenenfalls Sauer stoff) in geeigneter Reinheit und in die Menge blosser Proben weit uebersteigender Menge angebracht ist und dass die Ent nahmeleitung (h) zum Zwecke ihrer Unter− kuehlung vorzugsweise durch die kaeltesten Teile der Saeule gefuehrt ist.

Machine translation: (claim 1) 1 PATENT CLAIMS: r. Mixtures rectification column (b) for the separation of atmospheric air and other gas, characterized in that at an intermediate point of the column an up fangbehaelter (g) and lifting device (1a, i) for the removal of liquid, heavier total volatile product (io, optionally Sauer material) is mounted in a suitable purity and in the amount of mere sample well over an increasing quantity, and that the development of the sampling line (h) for the purposes of sub−cooling is preferably performed by the coldest part of the column.

0) GB240302A – A DEVICE FOR USE IN AN ORDINARY INK BOTTLE FOR ...

3) Family number: 18125986 (GB240302A) © PatBase

Title: A device for use in an ordinary ink bottle for facilitating the filling of self filling fountain pens

Priority: GB19240024296 19241014

Family:

Publication number	Publication date	Application number	Application date
GB240302 A	19251001	GB19240024296	19241014

Probable Assignee: STEPHEN GEORGE KILLICK

Assignee(s):(std)**:** STEPHEN GEORGE KILLICK

International class (IPC 8–9)**:** B43L25/00 (Advanced/Invention); B43L25/00 (Core/Invention)

International class (IPC 1–7)**:** B43K11/02

CPC: B43L25/00

European class: B43L25/00

Classification Explorer

Abstract:
Source: GB240302A Fountain–pen fillers.–A device for facilitating the filling of self–filling fountain pens comprises a filler a adapted to fit loosely into an ordinary ink bottle c and provided with an ink passage b, a recess b <2> to receive the nib of the pen, and a resilient seating d for the pen. The lower portion of the ink passage b may be small enough to form a capillary tube. The passage may be eccentric and may lead to near the top of the recess b <2> . The base a <3> of the pillar may have a flat, grooved, conical, or saucer shaped recess. The seating may be formed from rubber and flanged or may be formed as a ring, or a truncated cone, or may be cup shaped to fit into corresponding depressions in the pillar. The aperture in the seating may be oval to accommodate large nibs and may be lined by a metal ferrule e. A projecting wall may be formed on or attached to the pillar. which may be part fluted. A metal sleeve e <1> may surround the exterior of the seating or the upper part of the pillar. The recess b <2> may be cylindrical or oval, or may be enlarged between its two ends and may have a conical base.

0) DE430902A – VERFAHREN UND APPARAT ZUR SPALTUNG VON SCHWEROE...

4) Family number: 18995651 (DE430902A) © PatBase

Title: VERFAHREN UND APPARAT ZUR SPALTUNG VON SCHWEROELEN METHOD AND APPARATUS FOR SPLIT OF SCHWEROELEN (Machine translation)

Priority: 19231110 DE1924S065969 19240511

Family:

Publication number	Publication date	Application number	Application date
DE430902 A	19260629	DE1924S065969D	19240511

Probable Assignee: HOUILLES ET DERIVES

Assignee(s):(std)**:** HOUILLES ET DERIVES ; PETROLES DES SA ; PETROLES SA DES

Assignee(s): SOCIETE ANONYME DES PETROLES ; ANONYME DES PETROLES SOC

International class (IPC 8–9)**:** C10G9/42 (Advanced/Invention); C10G9/00 (Core/Invention)

International class (IPC 1–7)**:** C10G11/04 C10G15/00 C10G9/24

CPC: C10G9/42

European class: C10G9/42

Classification Explorer

Abstract:
Source: DE430902A (Claim 1) 1. PATENTANSPRUECHE: i. Verfahren zur Spaltung von Schwer oelen unter Erhitzung der oele in Form eines Schleiers, dadurch gekennzeichnet, dass – ein frei –herabfallender Schweroel schleier durch Waermestrahlung erhitzt wird, wobei die Strahlenwaerme durch in parabolischen Reflektoren angeordnete, vorzugsweise elektrische Heizkoerper er zeugt–wird.

Machine translation: (claim 1) 1 CLAIMS: i process for the resolution of ting oils heavy while heating the oils in the form of a veil, characterized in that – a free–of falling heavy oil is heated haze by thermal radiation, the Strahlenwaerme through in parabolic reflectors arranged, preferably electric radiators, he convinced is.

0) GB310096A – IMPROVEMENTS IN OR RELATING TO MEANS FOR DISTRI...

5) Family number: 18630549 (GB310096A) © PatBase

Title: Improvements in or relating to means for distributing electric current

Priority: GB19280000639 19280811

Family:

Publication number	Publication date	Application number	Application date
GB310096 A	19290425	GB19280000639	19280811

Probable Assignee: PHILEMON SYKES

Assignee(s):(std)**:** PHILEMON SYKES ; SYKES AND DYSON LTD ; WILLIAM COOPER

Assignee(s): SYKES AND DYSON LIMITED

International class (IPC 8–9)**:** H02B1/00 H02B1/18 (Advanced/Invention); H02B1/00 (Core/Invention)

International class (IPC 1–7)**:** H02B1/18

CPC: H02B1/00 H02B1/18

European class: H02B1/00 H02B1/18

Classification Explorer

Forward Citations: DE1192721,

0) DE489721A – VERFAHREN ZUM ENTGASEN VON KOHLE UNTER GEWINNUN...

6) Family number: 19917740 (DE489721A) © PatBase

Title: VERFAHREN ZUM ENTGASEN VON KOHLE UNTER GEWINNUNG VON KOKS
METHOD FOR DEGAS OF COAL IN PRODUCING COKE (Machine translation)

Priority: DE1924H099439 19241128 DE1924H099439 19241128 DE1924H099439 19241128

Family:

Publication number	Publication date	Application number	Application date
DE489721 A	19300118	DE1924H099439D	19241128

Probable Assignee: OTTO HALZENBACH HERTEL

Assignee(s):(std)**:** OTTO HALZENBACH HERTEL

International class (IPC 8–9)**:** C10B7/00 (Advanced/Invention); C10B7/00 (Core/Invention)

International class (IPC 1–7)**:** C10B47/16

CPC: C10B7/00

European class: C10B7/00

Classification Explorer

Abstract:
Source: DE489721A (Claim 1) 1. PATENT:INSPRLTCHE: t. Zerfahren zum Entgasen von Kohle unter Gewinnung von Koks in Retorten mit beheizbaren zentralen Gasabfuhr kanaelen, die mittels in den Retorten ein greifende, von innen beheizte Dreh koerper gebildet werden, dadurch ge kennzeichnet, dass die Drehkoerper mit derart exzentrischem oder unrundem Ouerschnitt ausgefuehrt sind, dass auf die Koksmasse fortlaufende, porositaetsver– mindernde Knetwirkungen ausgeuebt werden, derart, dass infolge der inneren Beheizung der Drehkoerper die plastische Koksmasse mit den Drehkoerpern in an sich bekannter Weise ausser Haftung kommt und in der Beschickungssaeule dicht gesteifte Gasfuehrungskanaele bildet, deren Wandungen abwechselnd von auf steigenden Gasen und den knetend wir– kenden Schwenkseiten des Drehkoerpers bestrichen:werden.

Machine translation: (claim 1) 1 PATENT: INSPRLTCHE: t. Incoherence of degassing of coal in the production of coke in the retort with a heated central gas discharge channels that characterizes by in the retort a comprehensive, internally heated rotary will koerper formed, character, that the Orb are executed with such eccentric or noncircular Ouerschnitt that are exerted on the coke mass continuous, porositaetsver–reducing Knetwirkungen such that due to internal heating of the Orb the plastic coke mass with the Drehkoerpern in a conventional manner except liability comes and in the Beschickungssaeule tight starched Gasfuehrungskanaele forms, the walls of alternately rising of on are: gases and the kneading–acting pan coated sides of the Drehkoerpers.

0) DE570788A – MAGNETELEKTRISCH ANGETRIEBENE PUMPE MAGNET ELE...

7) Family number: 29604622 (DE570788A) © PatBase

Title: MAGNETELEKTRISCH ANGETRIEBENE PUMPE MAGNET ELECTRIC DRIVEN PUMP (Machine translation)

Family:

Publication number	Publication date	Application number	Application date
DE570788 A	19330220		19300427

Probable Assignee: TECALEMIT ETS SA

Assignee(s):(std)**:** ETS TECALEMIT SA ; TECALEMIT ETS SA

Assignee(s): ANONYME DES TECALEMIT ETS SOC ; SOCIETE ANONYME DES ETABLISSEMENTS TECALEMIT

International class (IPC 8–9): F02M37/08 F02M59/02 F16N13/00 (Advanced/Invention); F02M37/08 F02M59/00 F16N13/00 (Core/Invention)

International class (IPC 1–7): F02M37/08 F16N13/00

CPC: F02M59/02 F02M37/08 F02M2700/1352 F16N13/00

European class: F02M37/08 F02M59/02 F16N13/00 R02M700/13E6

Classification Explorer

Forward Citations: DE102004008004,

Abstract:
Source: DE570788A (Claim 1) 1. PATENTANSPRUECHE: i. Magnetelektrisch angetriebene Pumpe nach Patent 535 033, gekennzeichnet durch einen das Gehaeuse (27, 34) der Spule (i8) und benachbarte magnetische Teile ent haltenden magnetischen Kreis (19–27–24– 23–2i, Abb. i, oder 34–35–36–2i, Abb. q.), der sich ueber einen in Hoehe eines Poles des angezogenen Kernes angeordneten und die abdichtende Wandung (i) umfassen den Teil (2i) schliesst, so dass der Magnet fluss der Spule (i8) am Ende des Hin ganges des Kernes (i2) durch den Kern durchtritt und –alsdann das Feld des Kernes in seiner Wirkung auf die Kon taktorgane unterstuetzt.

Machine translation: (Claim 1) 1 CLAIMS: i. magnet electric powered pump in patent 535 033, comprising a housing (27, 34) of the coil (i8) and corresponding parts of adjacent magnetic holding magnetic circuit (19–27–24 – 23–2i, Figure i, or 34–35–36–2i, Fig q.), which extends over a height of a pole mounted in the core and tightened the sealing wall (i) include the portion (2i) closes, so that the magnetic flux of the coil (i8) at the end of the round ganges of the core (i2) through the core and then passes through the field of the nucleus in its effect on the con tact organs supported.

0) GB393908A – IMPROVEMENTS IN ELECTRICAL DISTRIBUTION BOARDS ...

8) Family number: 20572323 (GB393908A) © PatBase

Title: Improvements in electrical distribution boards for pillars or the like

Priority: GB19330004365 19330213

Family:

Publication number	Publication date	Application number	Application date
GB393908 A	19330615	GB19330004365	19330213

Probable Assignee: ARTHUR MILNES POOLEY

Assignee(s):(std): ARTHUR MILNES POOLEY ; CECIL ALFRED WILSON ; ENGLISH ELECTRIC CO LTD

Assignee(s): THE ENGLISH ELECTRIC COMPANY LIMITED

International class (IPC 8–9): H02B1/00 (Advanced/Invention); H02B1/00 (Core/Invention)

International class (IPC 1–7): H02B1/00

CPC: H02B1/00

European class: H02B1/00

Classification Explorer

Abstract:
Source: GB393908A 393,908. Distribution boards. ENGLISH ELECTRIC CO., Ltd., 28, Kingsway, London, POOLEY, A. M., Riverdale, Tixall, Staffordshire, and WILSON, C. A., Grafton Cottage, Izaac Walton Street, Stafford. Feb. 13, 1933. No. 4365. [Class 38 (v).] In a distribution pillar or the like employing a unit of the type comprising one or more fuses and or connecting links clamped one above the other on an upright, a clamp member having a backward extension is used for the purpose of forming an electrical connection to a horizontal busbar located behind the upright. With this arrangement, all wiring and c. can be effected from in front. The single insulating rod or tube 1 is fastened to a box 14, which may be the cable sealing box, and carries two pairs of fuse clips 4 and a link 12 for the neutral shown in detail in Fig. 4. The link is fastened to clamps 10, 11 which are adapted to embrace the upright 1 and to carry, respectively, a side terminal 7b for a cable and a rear extension 11b for connection with the busbar 13. The clips 4 are secured to the flat faces of further clamps, two of which carry side terminals for the cables, similarly to 10, and two carry extensions 3a for connection to the busbars in the rear, similarly to 11, To adapt one of the units shown in Fig. 1, to existing pillars in which the busbars are in front, an extra fitment may be fastened between the fuse clip and clamp, Figs. 5 and 6 (not shown). The parts of the cables between the box 14 and sockets may be shrouded in insulating tubes, and shrouds 15 may cover the live parts in front of the pillar. The clamps may be cut off to the desired width from extruded bar of the necessary cross section.

0) GB419740A – IMPROVEMENTS IN AND RELATING TO SLIDING WINDOWS...

9) Family number: 20224464 (GB419740A)

© PatBase

Title: IMPROVEMENTS IN AND RELATING TO SLIDING WINDOWS FOR MOTOR OR OTHER VEHICLES

Priority: GB19330014414 19330518

Family:

Publication number	Publication date	Application number	Application date
GB419740 A	19341119	GB19330014414	19330518

Probable Assignee: MARTIN WALTER LTD

Assignee(s):(std)**:** ERNEST METCALFE ; MARTIN WALTER LTD

Assignee(s): MARTIN WALTER LIMITED

International class (IPC 8–9)**:** B60J10/04 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/17

CPC: B60J10/74

European class: B60J10/04

Classification Explorer

Forward Citations: US2938245, US2797958,

Abstract:
Source: GB419740A 419,740. Vehicle windows; frames; preventing rattle. METCALFE, E., 44, Alder Road, and WALTER, Ltd., M., 145, Sandgate Road, both in Folkestone, Kent. May 18, 1933, No. 14414. [Class 20 (iii).] Pairs of sliding vehicle windows are adapted to move in inclined guides 1, 2 in the vehicle doors or body so that the vertical edges 9 of the panels may engage when raised. A rubber or other bead may be provided on the meeting edge of one panel and the inclined extensions of the panel frame may have rollers 11 engaging the sides of the frame guides in the well to prevent vibration, the rollers being carried by plates secured to the frame at points where the panel is recessed. The meeting point of the inclined guides is preferably arranged below the top of well, but if above the well the triangular gap between the sashes when closed may be filled by a removable piece.

0) DE618305A – FLUESSIGKEITSAUSGABEVORRICHTUNG

10) Family number: 20060475 (DE618305A) © PatBase

Title:	FLUESSIGKEITSAUSGABEVORRICHTUNG
Priority:	DE1934O021229 19340424

Family:

Publication number	Publication date	Application number	Application date
DE618305 A	19350907	DE1934O021229D	19340424

Probable Assignee:	MARCEL OTT
Assignee(s):(std)**:**	MARCEL OTT
International class (IPC 8–9):	B67D1/02 B67D1/04 (Advanced/Invention); B67D1/00 (Core/Invention)
International class (IPC 1–7):	B65D49/00 B67C3/04
CPC:	B67D1/02 B67D1/04
European class:	B67D1/02 B67D1/04

Classification Explorer

Abstract:
Source: DE618305A (Claim 1) 1.PATENTANSPRUECHE: i. Fluessigkeitsausgahevorrichtung mit einem die zu verteilende Fluessigkeit auf– nehmenden Hauptbehaelter rund einer in diesen eingebauten, die Fluessigkeit in einen Zwischenbehaelter drueckenden Plumpe, durch deren Betaetigung die Entleerung des nur nach Abnahme eines Verschlusses nachfuellbaren Hauptbehaelters gestattet ist, dadurch gekennzeichnet, dass eine Um– gehungsleitung angeordnet ist in solcher Lage, dass sie bei aufrechter Lage des Hauptbehaelters (R) ueber eine zur Atmo sphaere fuehrende oeffnung (O) des Zwi– schenbehaelters (C) hinwegfuehrt. z. Fluessigkcitsausgabevorrichtung nach Anspruch i, dadurch gekennzeichnet, dass der Zwischenbehaelter (C) irnnerballa des Hauptbehaelters (R), zweckmaessig zentral, angeordnet ist und die beiden Behaelter sowie die Umgehungsleitung (T1) von einer gemeinsamen Platte (P2) getragen. werden, in der die Verbindungskanaele vor– gesehen sind und die a'uech das Luft– pumpenrohr (T2) traegt.

Machine translation: (claim 1) 1.PATENTANSPRUECHE: i Fluessigkeitsausgahevorrichtung with the brake fluid to be distributed to approximately one–Hauptbehaelter participating in these built–in, the resulting liquid into a Zwischenbehaelter drueckenden Clumsy, by the discharge of the refillable Actuation the only after acceptance of a closure Hauptbehaelters is permitted, characterized in that an order–gehungsleitung is arranged in such a situation, that they in the upright position of the Hauptbehaelters (R) over an opening leading to the atmo sphere (O) of the intermediate schenbehaelters across run (C). such Fluessigkcitsausgabevorrichtung according to Claim i, characterized in that the Zwischenbehaelter (C) of the irnnerballa Hauptbehaelters (R), advantageously centrally disposed, and the two vessels and the bypass line (T1) from a common plate (P2) is supported. are in the Verbindungskanaele before–seen, and the a'uech the air pumps carries pipe (T2).

0) GB460093A – IMPROVEMENTS RELATING TO UNITS FOR CONNECTING E...

11) Family number: 20635644 (GB460093A) © PatBase

Title: Improvements relating to units for connecting electric cables

Priority: GB19350020666 19350720

Family:

Publication number	Publication date	Application number	Application date
GB460093 A	19370120	GB19350020666	19350720

Probable Assignee: BRITISH INSULATED CABLES LTD

Assignee(s):(std)**:** BRITISH INSULATED CABLES LTD ; ROWLAND WRENCH BLADES

Assignee(s): BRITISH INSULATED CABLES LIMITED

International class (IPC 8–9)**:** H02B1/00 (Advanced/Invention); H02B1/00 (Core/Invention)

CPC: H02B1/00

European class: H02B1/00

Classification Explorer

Forward Citations: DE1123006,

Abstract:
Source: GB460093A 20666/35 and 13141/36. [Class 38 (i)] A multiple connection device for multi–core cables comprises elongated sealing boxes 2 or bars carrying cable terminals 3 associated with contacts 4, and busbars 5 mounted on rods 22 independent of some or all of the boxes and c. 2 and carrying contacts 6 situated in line with the contacts 4 for connection thereto by fuses or links 7. The terminals 3 are mounted in insulating bushings 11, 12 in the wall of the boxes 2 and the boxes are supported on transverse angle bars 27, 33. These bars also support the rods 22 that consist of a metal core with an insulating sheath around which brackets 18 for the bus–bars are clamped. Another set of bus–bars may be supported on bushings in the boxes and c. 2, the contacts of which align with secondary contacts formed on or clamped to the contacts 4 so that the interconnection of the cables may be varied.

0) GB553730A – A CONTINUOUSLY–FUNCTIONING COMBINATION BLIND–FL...

12) Family number: 29649904 (GB553730A) © PatBase

Title: A continuously–functioning combination blind–flying instrument

Priority: GB19390030778 19391125

Family:

Publication number	Publication date	Application number	Application date
GB553730 A	19430603	GB19390030778	19391125

Probable Assignee: ALBERT EDWARD CHRISTIAN YORK B

Assignee(s):(std): ALBERT EDWARD CHRISTIAN YORK B

Assignee(s): ALBERT EDWARD CHRISTIAN YORK BRAMBLE

International class (IPC 8–9): G01C23/00 (Advanced/Invention); G01C23/00 (Core/Invention)

CPC: G01C23/005

European class: G01C23/00A

Classification Explorer

Forward Citations: US3062048, US2924885, US2590798,

Abstract:
Source: GB553730A 30778. [Class 135] [Also in Group XX] In a gyroscopically controlled device for aircraft, for indicating altitude and motion, or for automatic control or for stabilizing bomb sights or cameras, comprising a gimbal mounted gyroscopic element for providing continuously (without interruption or failure during evolutions of the craft) a datum in the form of a plane fixed relatively to the horizon, the gimbal–carrying chassis is arranged so that normally it is fixed on pivotal supports but is allowed to pivot freely if the gimbal rings become coplanar or approach such condition, whereby the degrees of freedom of the gyroscopic element may be maintained substantially continuously and the fixed datum continuously maintained in each and every attitude of the device. As applied to an attitude and motion indicator, the instrument embodies three gyroscopes viz. an horizon gyroscope 8, an azimuth gyroscope 27 and a rate–of–turn gyroscope 36. The outer gimbal 2 of the gyroscope 8 is pivoted on horizontal fore–and–aft trunnions 10, 10<SP>1</SP> and its 'lateral level is maintained by the gyroscope. The end face 5 of the gimbal carries lines 20, 20A, Fig. 2, which indicate the true horizon, or departure therefrom, against graduations 4R on the chassis 3. The outer ring 28 of the azimuth gyro 27 is pivoted in a carrier ring 25, journalled in the gimbal 2. The horizon gyro 8, operating through a gear connection 26 maintains the outer ring 28 in a vertical plane. The gimbal 2, gyro 8 and ring 25 are shown in Fig. 1 displaced through 90 degrees from their normal operating positions. If the aircraft makes a partial loop thereby bringing the inner and outer gimbals 2, 21 into a co–planar position and then makes a turn, the application of a disturbing torque to the gyroscopes 8, 27 is prevented by unlocking the instrument case 3 so as to permit it to pivot about trunnions 23, 24. As the gimbals approach coincidence compressed air passing through the pivots 23, 24 and channels 80 is admitted to a cylinder 77 by a release valve 81 operated by a servomotor 33 (described below) thereby withdrawing a piston rod 71 from locking engagement with a recess 72 in an inclined circular track 76. The case 1 thus becomes free to rotate about the pivots 23, 24 and the imposition of a disturbing torque on the gyroscope is avoided. On separation of the gimbal rings, the release valve returns to normal position, the piston rod 71 descends on to the inclined track 76 under the pressure of a spring 74 and the pressure on the track causes the case 1 to rotate back to normal position. The heading in azimuth during either normal or inverted flight is indicated in one or other of two sector windows 12 or 12A, Fig. 2, the irrelevant window being masked by a shutter 13. On change of heading of the aircraft relative displacement occurs between the outer gimbal ring 28 of the azimuth gyroscope and its carrier ring 25 thereby causing rotation (as described below) of a servomotor pinion 29, contrary motion of the differential rings 30, 30A, similar rotation of the differential discs 42, translation of pinions 32 and rotation of an azimuth disc 14 to display an indication of change of heading at the window 12, Change of fore–andaft level of the aircraft causes relative displacement between the carrier ring 25 and the chassis 3 but owing to the intervention of the differential gear effects no displacement of the graduated azimuth disc 14. In a modification the azimuth gyro 27 is replaced by a magnetic element 55, Fig. 11, carried in a frame 54 pivotally mounted on a vertical pivot 53 within the carrier ring 25. The frame 54 also carries a graduated azimuth scale 56 the readings of which are observed at the sector windows by reflection at mirrors 52. The rate of turn is indicated at a window 18, Fig. 2, on a graduated sector actuated by the rate–of–turn gyro 36. A pointer 17 for indicating the lateral trim of aircraft is pendulously balanced by a counterweight or by the shutter 13 upon a bush 7 in the glass cover 4 and co–operates with a pip 11 or 11A (or normal and inverted flight respectively) fixed in the normal axis of the aircraft. The degree of bank is indicated by the position of horizontal marks 20, 20A relative to graduations 4R. A further indication of lateral attitude is provided by the relative movements between a miniature aircraft 6<SP>1</SP> on a disc 6, and the dial 5, the movements of the miniature as seen by the pilot simulating the movements of the aircraft as seen from behind. If the aircraft inverts by pitching, the tail unit of the miniature appears to change place with its undercarriage. To effect this change the shapes of the tail unit and landing wheels of the miniature are cut out of the disc 6 bearing the miniature representation and are repeated above and

below the wing shape. These apertures are backed by a shutter or slide which moves up and down under the influence of gravity to display luminous areas giving an impression to the pilot of an apparent inversion of the miniature. " Sky indicators" 19 in the form of drums, discs or endless bands are provided and are marked with symbols denoting "horizon erect," " zenith," horizon inverted," "Nadir," "45 degrees inclinations erect," and " 45 degrees inclinations inverted." During pitching of the aircraft displacement occurs between the inner gimbal 21 of the gyro 8 and the outer gimbal 2. This displacement is followed up by the servomotor 33 (described below) to drive the sky indicators through gearing 26 and present to the pilot an indication in the appropriate sense of the apparent movement of the sky area past the sky Slots S, Fig. 2. The servomotor devices 33, 34, 35 for transmitting movements without imposing reactive torques, for example for transmitting the movements of the gyro 27 to the indicator without imposing a torque on the gyro, are shown in Fig. 4 wherein the air supplied to the jet 58 to drive the rotor 27 is by−passed through the stub axle 60 of the gimbal ring 57 and is directed radially towards the rotatable jet boss 62 carrying a toothed indicator−driving wheel 63 and two vane wheels 64. If relative movement from the normal position of rest occurs between the gimbal ring 57 and the jet boss 62, a jet seal 67, Fig. 5, admits the air to one or other of two channels 69 and thence to jets 68 playing upon the vane wheels 64. The vane wheels, acting through pinions 65, and a gear−wheel 66, Fig. 4, impart rotary movement to the driven disc 63 of the indicator mechanism to follow up the gimbal ring 57 until the normal relationship shown in Fig. 5 is restored. The gyroscope 8 is self−erected by means of pendulous shutters co−operating with vent ports. Acceleration disturbances of the shutters are minimized by providing the shutters with spring−pressed extensible pins which are pressed by centrifugal force into engagement with roughened arcs on the rotor case in order to brake the movements of the shutters.

0) US2550773A – SHOCK–RESISTANT, PUNCTURE–SEALING TIRE

13) Family number: 21876396 (US2550773A) © PatBase

Title:	SHOCK–RESISTANT, PUNCTURE–SEALING TIRE
Priority:	US19460694300 19460831

Family:

Publication number	Publication date	Application number	Application date
US2550773 A	19510501	US19460694300	19460831

Probable Assignee:	CHRISTENSEN MANFORD E
Assignee(s):(std)**:**	CHRISTENSEN MANFORD E ; HANSON WILLIAM J
Inventor(s):(std)**:**	CHRISTENSEN MANFORD E ; HANSON WILLIAM J
International class (IPC 8–9)**:**	B29C73/18 B29D30/02 B60C19/12 (Advanced/Invention); B29C73/00 B29D30/00 B60C19/00 (Core/Invention)
International class (IPC 1–7)**:**	B29H11/00 B60C21/08
CPC:	B60C19/12 Y10T152/10243 Y10T152/10378 Y10T152/10396 Y10T152/1072
European class:	B60C19/12
US class:	152/204 152/310 152/312 152/327 152/508
Classification Explorer	
Cited documents:	US666401 A, US609080 A, US467015 A, US2018189 A, US1874197 A, US1440553 A, US1257409 A,
Forward Citations:	US5685926, US5494090, US3987832, US3563294, US3306331, US2012247634, US2011259499, US2008173382,

Abstract:
Source: US2550773A (Claim 1) We claim: comprising an outer tread and an inner wall, said inner wall including a plurality of layers of shockresistant pillars, the spaces between said pillars containing cellular rubber, each pillar of a rela– Vively radially inner layer being so arranged as to lie radially inwardly of a cellular r–abber area of a relatively radially outer layer. 2.

0) US2586845A – NEBULIZER FOR ADMINISTERING MEDICAMENTS

14) Family number: 22291428 (US2586845A) © PatBase

Title: NEBULIZER FOR ADMINISTERING MEDICAMENTS

Priority: US19500162065 19500515

Family:

Publication number	Publication date	Application number	Application date
US2586845 A	19520226	US19500162065	19500515

Probable Assignee: MCKINNON BAIN L

Assignee(s):(std)**:** MCKINNON BAIN L

Inventor(s):(std)**:** MCKINNON BAIN L

International class (IPC 8–9)**:** A61M11/06 (Advanced/Invention); A61M11/06 (Core/Invention)

International class (IPC 1–7)**:** A61M11/06 B05B7/24

CPC: A61M11/06 A61M2205/21

European class: A61M11/06 K61M205/21

US class: 239/335 239/338 239/370 239/576 422/306

Classification Explorer

Cited documents: US2274669 A, FR547480 A,

Forward Citations: US3572660, US3104062, US3069097, US3010910, US2726896, US2015224279,

Abstract:
Source: US2586845A (Claim 1) 1. A nebulizer, comprising: a cylindrical member; cover plates on either side of said member, each cover plate having a circular groove in which t,he edges of said cylindrical member are _ositioned, one side–wall of said groove being threaded and one side–wall being beveled and adjoining suri'aces of said cylindrical member being likewise threaded and beveled; said cylindrical member having a discharge opening, an air jet open– ing, and an air inlet opening, said discharge opening and said air jet opening being oppositely positioned on either side and said air inlet opening being above said air jet opening and at acute angles to the same; an impingement target extending from the bottom of said cylindrical member to past the center of the same, the sides of said impingernent target being generally parabolic in vertical cross–section; an interior nozzle around each of said openings and an outward extension around said air jet opening; a flexible bulb having an opening in which said outward extension is positioned; and a liquid supply tube extending from the bottom of said cylindrical member, between said impingement target and said air jet opening, to adjacent the line between the center of said air jet opening and said discharge opening, there being an opening at the base of said supply tube.

0) US2589448A – LAMP HAVING HOLLOW TRANSLUCENT LAMP–SOCKET–SUPP...

15) Family number: 22588196 (US2589448A) © PatBase

Title: LAMP HAVING HOLLOW TRANSLUCENT LAMP–SOCKET–SUPPORTING MEMBERS CONTAINING TRANSLUCENTELECTROLYTE

Priority: US19480026559 19480512

Family:

Publication number	Publication date	Application number	Application date
US2589448 A	19520318	US19480026559	19480512

Probable Assignee: SPENCE HENRY D

Assignee(s):(std)**:** SPENCE HENRY D

Inventor(s):(std)**:** SPENCE HENRY D

International class (IPC 8–9)**:** F21V21/10 (Advanced/Invention); F21V21/10 (Core/Invention)

International class (IPC 1–7)**:** F21V27/00 H01B7/00

CPC: F21V21/10

European class: F21V21/10

US class: 174/9F 362/223 D26/093 D26/93

Classification Explorer

Cited documents: US264656 A, US2221944 A, US1097922 A,

Forward Citations: WO03067947, US3412198, KR100910892,

Abstract:
Source: US2589448A (Claim 1) 1. An electric lighting fixture for the reception o4' an electric lamp, comprising a base, a 5,_) hollow translucent upright rising from said base, said upright having a substantially completely enclosed chainber thereiii containing a transluceiit elee'trolyte extending substantially from the bottom, to the, top of said upright, spaced elee– 5,_) trodes.mounted in the upper and lower regions respectively of said electrolyte, a lamp receptacle mounted on said upright and electrically connected to one of said eler–trodes, all portions of said upriglht and everything contained in the f)o chamber therein between said spaced upper and lowerelectrodes iiieluding said electrolyte beirig compl_et'cly translucent, and a lampenergization eircuil. connected to said receptacle and including, said electrodes with said electrolyte in series C) therewith, said electrolyte constituting the sole direct eleptrical conductor b,– tween said _spaced electrodes.

0) GB709848A – NEBULIZER FOR ADMINISTERING MEDICAMENTS

16) Family number: 19410334 (GB709848A) © PatBase

Title: Nebulizer for administering medicaments

Priority: GB19520003979 19520214

Family:

Publication number	Publication date	Application number	Application date
GB709848 A	19540602	GB19520003979	19520214

Probable Assignee: BAIN LAUGHLIN MCKINNON

Assignee(s):(std)**:** BAIN LAUGHLIN MCKINNON

International class (IPC 8–9)**:** A61M11/06 (Advanced/Invention); A61M11/06 (Core/Invention)

International class (IPC 1–7)**:** A61M11/06

CPC: A61M11/06 A61M2205/21

European class: A61M11/06

Classification Explorer

Forward Citations: US3379194, US3172406, DE1491849,

Abstract:
Source: GB709848A 3979/52. Class 81(2) A nebulizer for inhaling liquid medicaments comprises a cylindrical body 10 with its ends closed by detachable circular caps and having an air inlet 42, an air outlet 40, an air jet 50 supplied with air from an external bulb, and co–operating with a tube 48 which receives liquid from the lower part of the body through an orifice 60, and a surface on which the spray impinges to separate out any undesirably large droplets. This surface is formed on a pillar 46 which is approximately'parabolic in its vertical sections and ovate in its horizontal sections. The upper part of the pillar also has a continuous groove, cut on the face adjacent to the outlet 40, into which the collected drops may run and diametrically opposite points on this groove are connected by a drilling 53. An angularly displaceable ring 24 is provided to close the air outlet and inlet when the. device is not.in use.

0) US2970776A – WASTE DISINTEGRATING MACHINES

17) Family number: 21958972 (US2970776A) © PatBase

Title: WASTE DISINTEGRATING MACHINES

Priority: US19570668494 19570627

Family:

Publication number	Publication date	Application number	Application date
US2970776 A	19610207	US19570668494	19570627

Probable Assignee: MEILI AND WORTHINGTON INC

Assignee(s):(std)**:** MEILI AND WORTHINGTON INC

Inventor(s):(std)**:** BUCKMAN WAYNE T

International class (IPC 8–9)**:** E03C1/266 (Advanced/Invention); E03C1/26 (Core/Invention)

International class (IPC 1–7)**:** B02C18/42 B02C19/12 B03B9/06

CPC: E03C1/2665

European class: B02C18/42 E03C1/266B

US class: 100/117 100/95 100/96 100/97 210/413 210/767 241/101.2 241/46.02 241/46.17

Classification Explorer

Cited documents: US937172 A, US488583 A, US337423 A, US2771365 A, US2665853 A, US2061089 A, US2046845 A, US2043409 A, US1772262 A,

Forward Citations: US8267339, US5344085, US3823879, US3455235, US3426677, US3375776, US3192853, US3188942, US3164329, US3154255, US3113733, US3034311, US2010213298, JP52131662, EP2221106, EP0443310, CN101811126,

Abstract:
Source: US2970776A (Claim 1) I Claim: 1 In a roachine –of the 6har_eter.de; I ,cribed, having ;P.

0) LU41239A –

18) Family number: 754383 (LU41239A) © PatBase

Priority: LU19620041239 19620212

Family:

Publication number	Publication date	Application number	Application date
LU41239 A	19620412		19620212

International class (IPC 8–9): E02D5/20 (Advanced/Invention); E02D5/00 (Core/Invention)

CPC: E02D5/20

European class: E02D5/20

Classification Explorer

Abstract:
Source: LU41239A [Source: Claim 1] 1. des statischen uesberdrueices der Wend hin seitlich versetzt enge– ordnet, so dass durch den statischen Druck auf die Wand durch lasser oder Hrde die Zwlschenpfeiler an die Mauptpfeiler enge– proestt »erden und somit sich nicht eine Fuge zwischen Haupt– und T and 'igohanpfaller bilden kann. Werden die Hauptpfeiler als Wandteile aus Fertigbeton gebildet und werden diese gleichzeitig als Suessere Konstruktionswand des In der Baugrube zu errichtenden Bauwerkes mitverwendet, so werden nach Ausaub der Baugrube nach einer weiteren AusfUhrungsfora die noch verbleibenden Fugen i der einzelnen Wendteile vorzugsweise mit einer besonderen Fugen dichtaas zu einer glatt durchlauf enden Bau– werkswaad wasserdicht verbunden. Patentansprueche:. Verfahren zur Herstellung, einer aus Pfeilern gebildeten ge– schlossenen Untergrundwand, dadurch gekennze ich– net, dass zunaechst die Swiecheapfeiler abgeteuft und mit Betonzuschlags taffen, jedoch ohne Blndeait telzugabe, verfallt werden und erat nachdem die in das Querprofil der Zwischenpfeiler einschneidenden Hauptpfeiler, vorzugs– weise aus b nt er wa s serbe ton oder als iortigbetoateile, eingebracht sind, die Fertigstellung der gwischenpfei1er durch die Durchtrdnkung der zuvor eingebrachten Suschiags– stoffe mittels 2@ae and tl#im oder Zementmoertel nach einem be– kannten Verfahren erfolgt [Source: claim 1] « 1 of the static uesberdrueices of Wend down offset close associates, so that the static pressure on the wall by lasser or Hrde Zwlschenpfeiler at the Mauptpfeiler close proestt» Earth and thus is not a gap between major and T and ' igohanpfaller can make. Be formed the mainstay as wall parts made of pre–cast concrete and this be used the pit of building to be built at the same time as sweeter construction wall of the In the remaining joints are so after Ausaub of the pit after a further AusfUhrungsfora i of the individual parts of the application preferably with a special joint sealing AAS one smooth run through construction end werkswaad waterproof connected. Claims:. Method of making a be connected underground wall formed by pillars, this gekennze I–net, that first of all the Swiecheapfeiler abgeteuft and tough with concrete aggregate, will expire telzugabe, but without Blndeait and erat after that in the cross section of the main pillar that it cut a intermediate pillars, quality wise from b nt he ton wa s Serb or as iortigbetoateile, inserted are the completion of the gwischenpfei1er by the Durchtrdnkung of the previously installed Suschiags–material by means of 2@ae and tl #in the or cement mortar after one already knew procedures is

0) CH362213A – ENSEMBLE D'ELEMENTS PREFABRIQUES DESTINE A REAL...

19) Family number: 25757163 (CH362213A) © PatBase

Title: ENSEMBLE D'ELEMENTS PREFABRIQUES DESTINE A REALISER DES COFFRAGES DEMONTABLES SET OF ELEMENTS FOR MAKING PREFABRICATED FORMWORK DEMONTABLES (Machine translation)

Priority: 19600407

Family:

Publication number	Publication date	Application number	Application date
CH362213 A	19620531		19600407

Probable Assignee: RABIOLO REMO

Assignee(s):(std)**:** FOUQUE DANIEL ; RABIOLO REMO

Inventor(s):(std)**:** DANIEL FOUQUE

Inventor(s): FOUQUE DANIEL

International class (IPC 8–9)**:** E04G11/00 E04G17/04 E04G9/06 (Advanced/Invention); E04G11/00 E04G17/04 E04G9/02 (Core/Invention)

International class (IPC 1–7)**:** E04G11/00 E04G17/04 E04G9/06

CPC: E04G9/06 E04G11/00 E04G17/045

European class: E04G11/00 E04G17/04C E04G9/06

Classification Explorer

Abstract:
Source: CH362213A (Claim 1) 1. Ensemble selon la revendication, caracterise par le fait que l'accrochage des cravates et des pan neaux est realise au moyen de crochets que pre sentent ces derniers.

Machine translation: (Claim 1) 1. Assembly according to claim, characterized by the fact that the hanging ties and pan panels is achieved by means of hooks that first feel them.

0) US3232660A – BODY STRUCTURE OF MOTOR VEHICLES

20) Family number: 23864580 (US3232660A) © PatBase

Title: Body structure of motor vehicles

Priority: DE1962D039032 19620529 FR19630934831 19630515

Family:

Publication number	Publication date	Application number	Application date
DE1430763 A1	19681114	DE19621430763	19620529
DE1430763 C3	19730222	DE1962D039032	19620529
FR1357298 A	19640403	FR19630934831	19630515
GB975217 A	19641111	GB19630020686	19630523
US3232660 A	19660201	US19630283285	19630527

Probable Assignee: DAIMLER BENZ AG

Assignee(s):(std)**:** DAIMLER BENZ 7000 STUTTGART AG ; DAIMLER BENZ AG

Assignee(s): DAIMLER BENZ AKTIENGESELLSCHAFT

Inventor(s):(std)**:** BARENYI BELA ; BELA BARENYI

International class (IPC 8–9)**:** B60H1/24 B60H1/26 B60K11/06 B62D25/06 B62D25/07 B62D31/00 (Advanced/Invention); B60H1/24 B60K11/00 B62D25/06 B62D31/00 (Core/Invention)

International class (IPC 1–7)**:** B62D25/06

CPC: B60H1/245 B60H1/262 B60K11/06 B62D25/06 B62D25/07 B62D31/00

European class: B60H1/24A4 B60H1/26A B60K11/06 B62D25/06 B62D25/07 B62D31/00

US class: 180/68.1 180/89.1 296/200 296/210 454/136 454/137 454/147

Classification Explorer

Cited documents: USD176962 S1, US3027186 A, US2842394 A, US2645521 A, US2626180 A, US2523104 A, US1543877 A, US1483290 A, GB522051 A, GB507796 A, FR869822 A, DE856102 A,

Forward Citations: WO09077065, US8398160, US4184713, FR2971477, FR2701685, FR2436043, EP1621451, EP1621451, DE102012213469, DE102012213469,

Abstract:
Source: GB975217A 975,217. Vehicle bodies. DAIMLER–BENZ A.G. May 23, 1963 [May 29, 1962], No. 20686/63. Heading B7B. The roof 1 of a vehicle is supported by a single main pillar 2 at the rear of the vehicle and in the central longitudinal plane. The pillar may be formed by a T–section member extending on either side of the roof panel or by an external oval section member. Alternatively, the pillar may be constituted in part by the roof panel and by a member fixed to the inside and/or outside of the roof as shown in Fig. 7. The pillar may also be supported by an upright member at the rear of the vehicle.

0) FR1358396A – PROCEDE ET MACHINE POUR FABRIQUER DES FERMETURE...

21) Family number: 20951217 (FR1358396A) © PatBase

Title: PROCEDE ET MACHINE POUR FABRIQUER DES FERMETURES DECHIRABLES POUR RECIPIENTS METHOD AND MACHINE FOR MANUFACTURING CLOSURES FOR CONTAINERS tear (Machine translation)

Priority: FR19620915822 19621119

Family:

Publication number	Publication date	Application number	Application date
FR1358396 A	19640417	FR19620915822	19621119

Probable Assignee: CANTOP

Assignee(s):(std)**:** CANTOP

Assignee(s): CANTOP INC

International class (IPC 8–9)**:** B21D51/38 (Advanced/Invention); B21D51/38 (Core/Invention)

International class (IPC 1–7)**:** B65D17/02

CPC: B21D51/383 B65D17/163

European class: B21D51/38B B65D17/16B1

Classification Explorer

Abstract:
Source: FR1358396A (Claim 1) 1. On execute un premier element comprenant une partie separable, on execute un second element forme, au moins partiellement, de matiere dechirable et on dispose le premier et le second elements en position active l'un par rapport a l'autre;

Machine translation: (Claim 1) 1. It execute a first element comprising a separable element is a second execute form, at least partially of material available TEAR and the first and second elements in the active position relative to the other;

0) US3191534A – ADJUSTABLE WAD DEVICE FOR HUNTING AND SHOOTING ...

22) Family number: 22766278 (US3191534A) © PatBase

Title: Adjustable wad device for hunting and shooting cartridges

Priority: IT19620000787 19620120

Family:

Publication number	Publication date	Application number	Application date
US3191534 A	19650629	US19630251972	19630116

Probable Assignee: ADO VECCHIOTTI

Assignee(s):(std)**:** ADO VECCHIOTTI

Inventor(s):(std)**:** ADO VECCHIOTTI

Inventor(s): VECCHIOTTI ADO

International class (IPC 8–9)**:** F42B7/08 (Advanced/Invention); F42B7/00 (Core/Invention)

International class (IPC 1–7)**:** F42B7/08

CPC: F42B7/08

European class: F42B7/08

US class: 102/461 102/532

Classification Explorer

Cited documents: US3095817 A, US2986998 A, US2617358 A, IT563555 A, FR1187370 A, FR1149454 A, FR1136976 A, FR1122175 A,

Forward Citations: US9500453, US8800449, US8555785, US8220393, US6164209, US6161482, US5750919, US3298313, US3289586, US2010192794, US2010101444, DE4323209,

Abstract:
Source: US3191534A (Claim 1) 1. An adjustable wad for shooting cartridges comprising in combination a tubular housing having a bottom and top portion and having a certral bore, a first disc of plastic material arrangedtransversely in said central bore, said disc havin.– a series of ribs extending perpendicular from at least one flat surface, said ribs defining a plurality 2,5 of grooves between said ribs and said one surface, at least one second disc of rubber contacting said ribs of said first d–ise in said housing a.–d two cork discs forming the top and bottom elem.–nts of said wad, said tubular housing folded transversely on the top and bottom por– tions to contain all said discs as a unit wad, whereby upon fir;ng said disc of rubber fills the grooves between said ri'_–s of said disc of plastic material providing additional elasticity tnereto and a secure gas seal.

0) FR1413362A – PERFECTIONNEMENTS AUX COFFRES DE REFRIGERATEURS...

23) Family number: 21254903 (FR1413362A) © PatBase

Title: PERFECTIONNEMENTS AUX COFFRES DE REFRIGERATEURS IMPROVEMENTS TO REFRIGERATORS OF BOXES (Machine translation)

Priority: FR19640992248 19641022

Family:

Publication number	Publication date	Application number	Application date
FR1413362 A	19651008	FR19640992248	19641022

Probable Assignee: THOMSON HOUSTON COMP FRANCAISE

Assignee(s):(std)**:** THOMSON HOUSTON COMP FRANCAISE

Assignee(s): COMPAGNIE FRANCAISE THOMSON HOUSTON ; FRANCAISE THOMSON HOUSTON COMP

International class (IPC 8–9): F25D23/02 F25D23/08 (Advanced/Invention); F25D23/02 F25D23/08 (Core/Invention)

CPC: F25D23/02 F25D23/082

European class: F25D23/02 F25D23/08B

Classification Explorer

Abstract:
Source: FR1413362A (Claim 1) 1 Ii comprend un caisson ouvert a l'avant, une paire de portes ayant chacune une surface egaie a peu pres a la moitie de l'ouverture avant du caisson et reliees par.des charnieres avec les parois laterales du coffre, un joint d'etancheite elastique plat fixe le long –du bord libre de:chaque porte et ayant une epaisseur telle que des parties marginales communes des joints,des portes entrent en contact partiel avant la fermeture des portes et soient.completement en contact lorsque les portes ont atteint leur position.de fermeture totale, les axes des charnieres etant situes dans un plan commun parallele a l'ouverture de caisson et situe a l'exterieur des joints de.portes dans la position de fermeture de celles–ci, de maniere que les joints et les axes des charnieres soient dans une position d' excentre– ment N dans laquelle l'elasticite desdits joints empeche les portes de s'ouvrir accidentellement, un mecanisme reliant les portes et le coffre de facon qu'un mouvement.d'une porte dans une direction ou dans l'autre provoque un mouvement identique de l'autre porte;

Machine translation: (Claim 1) 1 Ii includes an open box at the front, a pair of doors each having a surface brightens a little close to half of the front opening of the box and connected with hinges par.des walls Box side, an elastic seal plate fixed along the free edge of–: each door and having a thickness such that the joint edge portions of the gaskets, door contact part before closing the doors and soient.completement in contact when the doors have reached their fully closed position.de, the hinge pins being located in a common plane parallel to the housing opening and is outside joints de.portes in the closed position of these it, so as that the gaskets and the axes of the hinges are in a position offsets N–ment in which the elasticity of said seal prevents the doors from being accidentally opened, a mechanism connecting doors and the trunk way that one mouvement.d a door in one direction or the other causes an identical movement of the other door

0) FR1417618A – SEGMENT D'ETANCHEITE RING SEALING (MACHINE T...

24) Family number: 21457197 (FR1417618A) © PatBase

Title:	SEGMENT D'ETANCHEITE RING SEALING (Machine translation)
Priority:	FR19640998723 19641215

Family:

Publication number	Publication date	Application number	Application date
FR1417618 A	19651112	FR19640998723	19641215

Probable Assignee:	MUSKEGON PISTON RING CO INC
Assignee(s):(std):	MUSKEGON PISTON RING CO INC
Assignee(s):	MUSKEGON PISTON RING COMPANY ; MUSKEGON PISTON RING CO
International class (IPC 8–9):	F16J9/20 (Advanced/Invention); F16J9/00 (Core/Invention)
International class (IPC 1–7):	F02F5/00
CPC:	F16J9/203 F16J9/206
European class:	F16J9/20B F16J9/20C

Classification Explorer

Abstract:
Source: FR1417618A (Claim 1) 1 Il comprend un element de corps en une piece, ayant des parties laterales superieure et inferieure faisant partie integrante avec lui et qui forment les elements de contact avec la paroi du cylindre, les dites parties laterales etant reliees par une partie de boucle centrale, les parties laterales etant divergen– tes dans une direction radiale exterieure, les extre mites radiales exterieures de chacune des parties la terales etant divisees circonferentiellement en une serie de sections structuralement detachees des sec tions adjacentes par des lignes de separation, la partie de boucle centrale formant une serie de pi liers droits s'etendant axialement entre les sections, les extremites des piliers etant situees pour contacter les sections pres de leurs extremites radiales exte rieures et les soutenir contre un mouvement axial convergent, et un des piliers au moins etant prevu pour chacune des sections;

Machine translation: (Claim 1) 1 It includes a body element in a room, with upper and lower lateral parts forming an integral part with him and form the elements of contact with the cylinder wall, said lateral portions being linked by part of central loop, the parties being divergent lateral–tion in a radial direction exterior, the extre mites radial exterior of each party being divided circumferentially terales in a series of structurally replacements sections of adjacent sec tions by lines of separation, the central loop forming part of a series of sands pi rights are extending axially between the sections, the ends of the pillars being LOCATED to contact sections near their ends exte Affairs and radial support against axial movement converge, and one of the pillars at least being planned for each section

0) FR1475497A – INSTALLATION POUR LA CONSTRUCTION D'UNE MAISON ...

25) Family number: 25282904 (FR1475497A) © PatBase

Title: INSTALLATION POUR LA CONSTRUCTION D'UNE MAISON PREFABRIQUEE SYSTEM FOR CONSTRUCTION OF PREFABRICATED HOUSE (Machine translation)

Priority: ES19650311886 19650414 FR19660057383 19660413

Family:

Publication number	Publication date	Application number	Application date
BE679533 A	19660916		19660414
ES311886 A1	19660201	ES19650311886	19650414
FR1475497 A	19670331	FR19660057383	19660413
LU50875 A	19660613	LU19660050875	19660412
NL6604987 A	19661017	NL19660004987	19660414

Probable Assignee: ZAYVI SOC ANENIMA

Assignee(s):(std)**:** ZAYVI S A ; ZAYVI SOC ANENIMA

Assignee(s): ZAYVI SOCIEDAD ANENIMA

International class (IPC 8–9)**:** E04B1/24 (Advanced/Invention); E04B1/24 (Core/Invention)

International class (IPC 1–7)**:** E04B1/04 E04B1/16 E04B1/24

CPC: E04B1/24 E04B2001/2406 E04B2001/2424 E04B2001/2451 E04B2001/2463 E04B2001/2472 E04B2001/2478 E04B2001/2481 E04B2001/2484 E04B2001/249

European class: E04B1/24 P04B1/24B2 P04B1/24B41 P04B1/24B52 P04B1/24B7 P04B1/24C3 P04B1/24C5 P04B1/24D P04B1/24E P04B1/24R

Classification Explorer

Forward Citations: US4455792, EP3085844,

Abstract:
Source: FR1475497A (Claim 1) RESUME Procede et dispositif pour l'execution de maisons prefabriquees, caracterises par les points suivants, pris ensemble ou separement: a.

Machine translation: (Claim 1) SUMMARY Method and device for the execution of prefabricated houses, characterized by the following, together or separately: a.

- **search:** SS2 (1) and FT=car (Results 55)
- List: SS2 1–25 ((1) and FT=car) (Results 55)

0) CH362213A – ENSEMBLE D'ELEMENTS PREFABRIQUES DESTINE A REAL...

1) Family number: 25757163 (CH362213A) © PatBase

Title:	ENSEMBLE D'ELEMENTS PREFABRIQUES DESTINE A REALISER DES COFFRAGES DEMONTABLES SET OF ELEMENTS FOR MAKING PREFABRICATED FORMWORK DEMONTABLES (Machine translation)
Priority:	19600407

Family:

Publication number	Publication date	Application number	Application date
CH362213 A	19620531		19600407

Probable Assignee:	RABIOLO REMO
Assignee(s):(std):	FOUQUE DANIEL ; RABIOLO REMO
Inventor(s):(std):	DANIEL FOUQUE
Inventor(s):	FOUQUE DANIEL
International class (IPC 8–9):	E04G11/00 E04G17/04 E04G9/06 (Advanced/Invention); E04G11/00 E04G17/04 E04G9/02 (Core/Invention)
International class (IPC 1–7):	E04G11/00 E04G17/04 E04G9/06
CPC:	E04G9/06 E04G11/00 E04G17/045
European class:	E04G11/00 E04G17/04C E04G9/06

Classification Explorer

Abstract:
Source: CH362213A (Claim 1) 1. Ensemble selon la revendication, caracterise par le fait que l'accrochage des cravates et des pan neaux est realise au moyen de crochets que pre sentent ces derniers.

Machine translation: (Claim 1) 1. Assembly according to claim, characterized by the fact that the hanging ties and pan panels is achieved by means of hooks that first feel them.

0) US3232660A – BODY STRUCTURE OF MOTOR VEHICLES

2) Family number: 23864580 (US3232660A) © PatBase

Title: Body structure of motor vehicles

Priority: DE1962D039032 19620529 FR19630934831 19630515

Family:

Publication number	Publication date	Application number	Application date
DE1430763 A1	19681114	DE19621430763	19620529
DE1430763 C3	19730222	DE1962D039032	19620529
FR1357298 A	19640403	FR19630934831	19630515
GB975217 A	19641111	GB19630020686	19630523
US3232660 A	19660201	US19630283285	19630527

Probable Assignee: DAIMLER BENZ AG

Assignee(s):(std)**:** DAIMLER BENZ 7000 STUTTGART AG ; DAIMLER BENZ AG

Assignee(s): DAIMLER BENZ AKTIENGESELLSCHAFT

Inventor(s):(std)**:** BARENYI BELA ; BELA BARENYI

International class (IPC 8–9)**:** B60H1/24 B60H1/26 B60K11/06 B62D25/06 B62D25/07 B62D31/00 (Advanced/Invention); B60H1/24 B60K11/00 B62D25/06 B62D31/00 (Core/Invention)

International class (IPC 1–7)**:** B62D25/06

CPC: B60H1/245 B60H1/262 B60K11/06 B62D25/06 B62D25/07 B62D31/00

European class: B60H1/24A4 B60H1/26A B60K11/06 B62D25/06 B62D25/07 B62D31/00

US class: 180/68.1 180/89.1 296/200 296/210 454/136 454/137 454/147

Classification Explorer

Cited documents: USD176962 S1, US3027186 A, US2842394 A, US2645521 A, US2626180 A, US2523104 A, US1543877 A, US1483290 A, GB522051 A, GB507796 A, FR869822 A, DE856102 A,

Forward Citations: WO09077065, US8398160, US4184713, FR2971477, FR2701685, FR2436043, EP1621451, EP1621451, DE102012213469, DE102012213469,

Abstract:
Source: GB975217A 975,217. Vehicle bodies. DAIMLER–BENZ A.G. May 23, 1963 [May 29, 1962], No. 20686/63. Heading B7B. The roof 1 of a vehicle is supported by a single main pillar 2 at the rear of the vehicle and in the central longitudinal plane. The pillar may be formed by a T–section member extending on either side of the roof panel or by an external oval section member. Alternatively, the pillar may be constituted in part by the roof panel and by a member fixed to the inside and/or outside of the roof as shown in Fig. 7. The pillar may also be supported by an upright member at the rear of the vehicle.

0) FR1358396A – PROCEDE ET MACHINE POUR FABRIQUER DES FERMETURE...

3) Family number: 20951217 (FR1358396A) © PatBase

Title: PROCEDE ET MACHINE POUR FABRIQUER DES FERMETURES DECHIRABLES POUR RECIPIENTS METHOD AND MACHINE FOR MANUFACTURING CLOSURES FOR CONTAINERS tear (Machine translation)

Priority: FR19620915822 19621119

Family:

Publication number	Publication date	Application number	Application date
FR1358396 A	19640417	FR19620915822	19621119

Probable Assignee: CANTOP

Assignee(s):(std)**:** CANTOP

Assignee(s): CANTOP INC

International class (IPC 8–9)**:** B21D51/38 (Advanced/Invention); B21D51/38 (Core/Invention)

International class (IPC 1–7)**:** B65D17/02

CPC: B21D51/383 B65D17/163

European class: B21D51/38B B65D17/16B1

Classification Explorer

Abstract:
Source: FR1358396A (Claim 1) 1. On execute un premier element comprenant une partie separable, on execute un second element forme, au moins partiellement, de matiere dechirable et on dispose le premier et le second elements en position active l'un par rapport a l'autre;

Machine translation: (Claim 1) 1. It execute a first element comprising a separable element is a second execute form, at least partially of material available TEAR and the first and second elements in the active position relative to the other;

0) US3191534A – ADJUSTABLE WAD DEVICE FOR HUNTING AND SHOOTING ...

4) Family number: 22766278 (US3191534A) © PatBase

Title: Adjustable wad device for hunting and shooting cartridges

Priority: IT19620000787 19620120

Family:

Publication number	Publication date	Application number	Application date
US3191534 A	19650629	US19630251972	19630116

Probable Assignee: ADO VECCHIOTTI

Assignee(s):(std)**:** ADO VECCHIOTTI

Inventor(s):(std)**:** ADO VECCHIOTTI

Inventor(s): VECCHIOTTI ADO

International class (IPC 8–9)**:** F42B7/08 (Advanced/Invention); F42B7/00 (Core/Invention)

International class (IPC 1–7)**:** F42B7/08

CPC: F42B7/08

European class: F42B7/08

US class: 102/461 102/532

Classification Explorer

Cited documents: US3095817 A, US2986998 A, US2617358 A, IT563555 A, FR1187370 A, FR1149454 A, FR1136976 A, FR1122175 A,

Forward Citations: US9500453, US8800449, US8555785, US8220393, US6164209, US6161482, US5750919, US3298313, US3289586, US2010192794, US2010101444, DE4323209,

Abstract:
Source: US3191534A (Claim 1) 1. An adjustable wad for shooting cartridges comprising in combination a tubular housing having a bottom and top portion and having a certral bore, a first disc of plastic material arrangedtransversely in said central bore, said disc havin.– a series of ribs extending perpendicular from at least one flat surface, said ribs defining a plurality 2,5 of grooves between said ribs and said one surface, at least one second disc of rubber contacting said ribs of said first d–ise in said housing a.–d two cork discs forming the top and bottom elem.–nts of said wad, said tubular housing folded transversely on the top and bottom por– tions to contain all said discs as a unit wad, whereby upon fir;ng said disc of rubber fills the grooves between said ri'_–s of said disc of plastic material providing additional elasticity tnereto and a secure gas seal.

0) DE1505588A1 – VORRICHTUNG ZUM ABLEITEN DES REGENWASSERS VON K...

5) Family number: 351744 (DE1505588A1) © PatBase

Title: VORRICHTUNG ZUM ABLEITEN DES REGENWASSERS VON KRAFTFAHRZEUGDAECHERN DEVICE FOR DIVERT THE RAIN WATER FROM KRAFTFAHRZEUGDAECHERN (Machine translation)

Priority: DE1966B087310 19660526

Family:

Publication number	Publication date	Application number	Application date
DE1505588 A1	19700709	DE19661505588	19660526

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Assignee(s): BAYERISCHE MOTORENWERKE AG

Inventor(s):(std)**:** HOFMEISTER WILLI

International class (IPC 8–9)**:** B60J1/20 B60J10/00 (Advanced/Invention); B60J1/20 B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60R13/06

CPC: B60J1/20 B60J10/32

European class: B60J1/20 B60J10/00G1

Classification Explorer

Forward Citations: US4518197, FR2525549, DE3600504, DE3214876, DE3132325, DE3124271, DE3023767, DE102010037018,

Abstract:
Source: DE1505588A1 (Claim 1) 1. Vorrichtung zum Ableiten des Regenwaasera von Kraftfahrzeug daechern, bestehend aus an den Laengeseiten des Daches ange–, ordneten Wasserablaufrinnen, die sich an den vorderen Dach pfosten, schraeg nach unten verlaufend, fortsetzeng wobei die Wasserablaufrinne von einer ueber ihre gesamte Laenge einen gleichbleibenden Querschnitt aufweisenden Profilleiste sowie Teilen des Daches bzw. des Dachpfostens gebildet ist und im Bereich der etwa horizontal verlaufenden Laengeseiten des Daches einen nach aussen offenen Querschnitt aufweistg dadurch gekennzeichnet, dass im Bereich der Dachpfosten der nach unten fuehrende Teil der Regenrinne einen nach aussen im wesentlichen geschlossenen, durch Teile der Profilleiste und des Dachpfostens gebildeten Querschnitt aufweist.

Machine translation: (Claim 1) 1 Device to derive the Regenwaasera of vehicle roofs made from in–to the Laengeseiten the roof positioned drain channels, the posts on the front roof is inclined downwards, fortsetzeng with the water drainage channel from one over its entire length a constant cross–section having profiled strip and parts of the roof or the roof pole is formed and in the range of approximately horizontal Laengeseiten of the roof, an outwardly open cross–section aufweistg wherein the area of the roof pillars of the world leading down part of the gutter an outwardly substantially closed by parts the profile of the roof bar and post formed cross–section.

0) US3728819A – VEHICLE DOORS

6) Family number: 1959546 (US3728819A) © PatBase

Title: VEHICLE DOORS

Priority: DE19700039710U 19701028 DE19700047061U 19701221 DE19702030799 19700623 DE19702030799 19700623 DE19702030799 19700623 DE19702020576 19700428 DE19722219176 19720420 FR19710014139 19710421 DE19702052764 19701028 DE19702054397 19701105 DE19702062822 19701221 DE19702064678 19701231 DE19702042936 19700829

Family:

Publication number	Publication date	Application number	Application date
AT314991 B	19740510	AT19710003614	19710427
BE766311 A1	19710916	BE19710766311	19710427
BR7102965 A0	19730419	BR19710002965	19710518
CH534065 A	19730228	CH19710005913	19710423
DE2020576 A1	19711125	DE19702020576	19700428
DE2020576 B2	19731004	DE19702020576	19700428
DE2020576 C3	19740425	DE19702020576	19700428
DE2030799 A1	19720504	DE19702030799	19700623
DE2030799 B2	19731129	DE19702030799	19700623
DE2030799 C3	19740718	DE19702030799	19700623
DE2042936 A1	19720302	DE19702042936	19700829
DE2052764 A1	19720504	DE19702052764	19701028
DE2052764 B2	19731129	DE19702052764	19701028
DE2052764 C3	19740822	DE19702052764	19701028
DE2054397 A1	19720510	DE19702054397	19701105
DE2062822 A1	19720803	DE19702062822	19701221
DE2062822 B2	19750507	DE19702062822	19701221
DE2062822 C3	19800410	DE19702062822	19701221
DE2064678 A1	19720727	DE19702064678	19701231
DE2064678 B2	19750626	DE19702064678	19701231
DE2219176 A1	19731031	DE19722219176	19720420
DE2219176 B2	19740404	DE19722219176	19720420
DE2219176 C3	19741121	DE19722219176	19720420
DE7015828 U	19701008	DE19700015828U	19700428
DE7032326 U	19710211	DE19700032326U	19700829
DE7039710 U	19710715	DE19700039710U	19701028
DE7047061 U	19710902	DE19700447061U	19701221
ES390306 A1	19750501	ES19710390306	19710417
FR2094969 A5	19720204	FR19710014139	19710421
GB1353483 A	19740515	GB19710011188	19710423
US3728819 A	19730424	US19710138032	19710428
ZA7102726 A	19720531	ZA19710002726	19710427

Probable Assignee: KIEKERT GMBH AND CO

Assignee(s):(std)**:** ARN KIEKERT SOHNE ; KIEKERT SOEHNE ARN ; KIEKERT A SOEHNE DT

Assignee(s): KIEKERT GMBH AND CO ; KIEKERT GMBH ; KIEKERT ARN SOHNE ; ARN KIEKERT AND SOHNE DT ; ARN KIEKERT SOEHNE ; ARN KIEKERT SOEHNE 5628 HEILIGENHAUS ; ARN KIEKERT SOHNE KETTWIGER STRASSE 16 20 HEILIGEN ; ARN KIEKERT SOHNE KETTWIGER STRASSE 16 20 HEILIGENHAUS ALLEMAGNE ; KIEKERT A SOEHNE

Inventor(s):(std)**:**

RUDOLF BRANDENBURG ; HORST GOLDBACH ; GOLDBACH HORST ; GOLDBACH H ; ERICH DABRINGHAUSEN ; DABRINGHAUSEN ERICH ; DABRINGHAUSEN E ; BRANDENBURG RUDOLF ; BRANDENBURG R

Inventor(s): BRANDENBURG R DT ; DABRINGHAUSEN E DT ; GOLDBACH H DT

International class (IPC 8–9): B60J5/06 B61D19/00 E05D15/10 E05F15/06 E05F15/14 (Advanced/Invention); B60J5/06 (Advanced/Non–invention); B60J5/06 B61D19/00 E05D15/10 E05F15/00 E05F15/14 (Core/Invention); B60J5/06 (Core/Non–invention); B60J (Subclass/Invention); B60J (Subclass/Non–invention)

International class (IPC 1–7): B60J5/00 B60J5/06 E05D15/10

CPC: E05Y2201/11 E05Y2201/684 E05Y2800/122 E05D15/1068 E05D15/1044 E05D2015/1055 E05D2015/1076 E05D2015/1086 E05D2015/1097 E05Y2900/51 E05Y2800/12 E05Y2800/27 B60J5/06 B61D19/008 E05D2015/1092 E05Y2201/22 B60J5/062 E05D15/1047 E05D15/1081 E05D2015/1031 E05Y2900/506 E05F15/565 E05F15/646 E05Y2600/46 E05Y2600/62

European class: B60J5/06 B60J5/06B B61D19/00C4 E05D15/10S1 E05D15/10S2 E05D15/10T1 E05D15/10T3 E05F15/06B E05F15/14F2 P05D15/10R2 P05D15/10S5 P05D15/10T2B P05D15/10T4A P05D15/10T4A2 P05D15/10T6 P05Y201/22 P05Y900/506 P05Y900/510

US class: 49/21.6 49/216 49/218 49/223 49/225

Classification Explorer

Cited documents: GB738486 A, FR698436 A, DE847916 A,

Forward Citations: WO9951129, WO9801644, WO9729264, WO9101427, WO15165677, WO15044357, WO14096465, WO14009626, WO07104902, WO04041567, WO0105612, US9752366, US9266540, US8070102, US8015727, US7918492, US6779832, US6328374, US5913562, US5711185, US5212849, US5210906, US5195272, US5173992, US5144720, US4561690, US4559740, US4541201, US4495729, US4492405, US4406420, US4337596, US4028850, US3994094, US3903661, US2010171336, US2010059628, US2005102854, JP53077517, ITFI20120150, GB2517887, FR2993210, FR2865758, FR2795446, FR2763033, FR2664882, FR2647721, FR2485077, FR2443942, FR2374495, FR2310236, FR2310236, FR2253386, FR2253386, ES2390717, ES2166667, ES2128944, ES2127098, ES2127097, ES2123388, EP3088646, EP3073037, EP1914372, EP1085154, EP0940278, EP0940278, EP0876946, EP0876945, EP0589096, EP0401081, EP0134971, EP0134971, EP0063281, DE4331078, DE4323424, DE4218006, DE3710451, DE3630229, DE3526761, DE3249390, DE3224395, DE3101000, DE3049189, DE2937662, DE2631853, DE2602610, DE202006015735, DE102013113483, DE102012006531, DE102009018430, DE102004033759, DE102004011903, DE10158094, CN104487271, AT514501, AT514501, AT392239, AT391160,

Abstract:
Source: US3728819A A swinging, sliding door for vehicles, said door comprising at least one door panel, a guide track mounted on the panel, at least one roller guided in the track and a telescopic guide having at least two sections, one of the sections being mounted on the door panel and another of the sections being adapted to be mounted on the body of a vehicle by means of guide members. The telescopic guide extends essentially parallel to the upper edge of the door panel and the sections of the telescopic guide are arranged to move substantially parallel to each other on movement of the door.

0) FR2239367A – SUPPORTING FRAMEWORK FOR HIGH–SPEED TRAIN TRACK...

7) Family number: 1231500 (FR2239367A) © PatBase

Title: SUPPORTING FRAMEWORK FOR HIGH–SPEED TRAIN TRACK – USES AT LEAST ONE CIRCULAR OR ELLIPTICAL TUBULAR SECTION TO RESIST TORSION

Priority: DE19732338926 19730801

Family:

Publication number	Publication date	Application number	Application date
BE818246 A1	19741118	BE19740147077	19740730
DE2338926 A1	19750213	DE19732338926	19730801
FR2239367 A1	19750228	FR19740025910	19740725
FR2239367 B3	19770520	FR19740025910	19740725

Probable Assignee: KRUPP GMBH

Assignee(s):(std)**:** KRUPP GMBH

Assignee(s): KRUPP GMBH FRIED ; KRUPP GMBH FRIED DT ; FRIED KRUPP GMBH

Inventor(s):(std)**:** KAHMANN RUEDIGER DIPL ING ; KRAUSE HERBERT DR ING

International class (IPC 8–9)**:** E01B25/00 E01D11/02 E01D11/04 E01D4/00 E01D6/00 (Advanced/Invention); E01B25/00 E01D11/00 E01D4/00 E01D6/00 (Core/Invention)

International class (IPC 1–7)**:** B61B13/04 B61B3/00 B61B5/02 E01B25/00 E01B25/10 E01D1/00

CPC: E01B25/00 E01D4/00 E01D6/00 E01D11/02 E01D11/04 E01D2101/30

European class: E01B25/00 E01D11/02 E01D11/04 E01D4/00 E01D6/00 P01D101/30

Classification Explorer

Forward Citations: WO9934890, WO9840560, US4665829, US4489659, FR2548234, FR2547844, FR2544760, EP0118404, EP0005884, DE3726977, DE2937655,

Abstract:
Source: FR2239367A The high speed train track support framework is designed to resist torsion due to eccentric loading, provide greater wind resistance and be inherently rigid to reduce addn. reinforcement. One or two circular or elliptical tubular sections are transversely braced in a triangular or trapezoidal section and fixed to supports, brackets being used to attach rails. Tubular sections are more rigid and more easily fabricated to finished lengths than rectangular or I sections.

0) FR2300184A – PERFECTIONNEMENTS A L'ASSEMBLAGE DES ELEMENTS E...

8) Family number: 3515648 (FR2300184A) © PatBase

Title: PERFECTIONNEMENTS A L'ASSEMBLAGE DES ELEMENTS EN BETON ARME
JOINING PRECAST REINFORCED CONCRETE JOISTS AND COLUMN – BY BOLTED STEEL GUSSET PLATES AND EPOXY RESIN ADHESIVE

Priority: FR19750004412 19750207

Family:

Publication number	Publication date	Application number	Application date
FR2300184 A1	19760903	FR19750004412	19750207
FR2300184 B3	19771021	FR19750004412	19750207

Probable Assignee: HABITAT COMMUNAUTE DE TRAVAIL

Assignee(s):(std)**:** HABITAT COMMUNAUTE DE TRAVAIL

International class (IPC 8–9)**:** E04B1/21 (Advanced/Invention); E04B1/20 (Core/Invention)

International class (IPC 1–7)**:** E04B1/58

CPC: E04B1/21

European class: E04B1/21

Classification Explorer

Forward Citations: CN105863339,

Abstract:
Source: FR2300184A (Claim 1) 1 – Procede pour l'assemblage d'elements en beton arme, notamment de poutres ou poutrelles au sommet de poteaux ou piliers, caracterise en ce qu'on remplit de resine epoxy de collage un mince logement menage entre les facons en vis a vis des elements a assembler et en ce quton reunit ceux–ci a l'aide d'au moins un gousset metallique fixe en place par collage et par des tirants filetes associes a des ecrous de serrage, lesdits tirants transversant des perforations prevues dans les elements et dans le gousset. The composite steel plate and epoxy resin joint between precast reinforced concrete joists and support columns provides structural continuity at the joint, and is formed by joining the abutting vertical joist ends together with a thin layer of epoxy resin, and bolting steel gusset plates (4) on the faces of the joint. The gusset plates (4) are beded on epoxy resin and fixed by nut (6) anchored bolts (5) through holes (10, 7) in the gusset plates and the precast members pref. with four bolts (5) through each member. Support for an additional perpendicular joist includes mitred joist ends and boxed knee braces.

0) DE2702854A1 – VORRICHTUNG ZUM AUSRICHTEN UND ARRETIEREN VON P...

9) Family number: 2516922 (DE2702854A1) © PatBase

Title: VORRICHTUNG ZUM AUSRICHTEN UND ARRETIEREN VON PFEILERN IN FUNDAMENTEN POST ALIGNMENT AND FIXING DEVICE – HAS CLAMP AND STOP PLATES WHICH SCREW TOGETHER FOR DISPLACEMENT DURING ALIGNMENT IN HOLLOW SPACE BASE

Priority: SE19760000918 19760129

Family:

Publication number	Publication date	Application number	Application date
DE2702854 A1	19770804	DE19772702854	19770125
FI770237 A	19770730	FI19770000237	19770126
NO146506 B	19820705	NO19770000047	19770107
NO146506 C	19821013	NO19770000047	19770107
NO770047 A	19770801	NO19770000047	19770107
SE408078 B	19790514	SE19760000918	19760129
SE408078 C	19790823	SE19760000918	19760129
SE7600918 A	19770730	SE19760000918D	19760129

Probable Assignee: HEGEBY FRITZ

Assignee(s):(std)**:** HAEGEBY FRITZ ; HEGEBY FRITZ

Assignee(s): FRITZ HEGEBY

Inventor(s):(std)**:** HAEGEBY FRITZ

Inventor(s): SOK

International class (IPC 8–9)**:** E04H12/22 (Advanced/Invention); E04H12/22 (Core/Invention)

International class (IPC 1–7)**:** E04H12/22

CPC: E04H12/2269

European class: E04H12/22C2

Classification Explorer

Forward Citations: FR2709511, FR2573104, EP0641891, EP0428961,

Abstract:
Source: DE2702854A1 Patentanspr ue c h e 0 Vorrichtung zum dusrichten tund– retieren von Pfeilern in einer Wahllage in einem Fundament, welches mit einem langgestreckten, bezueglich Einer Laengsachse rotationssymmetrischen Hohlraum versehen ist, in dem ein Teil des Pfeilers sich erstreckt, mit wenigstens einem auf wenigstens einer Seite des Pfeilers angeordneten Klemmstueck und wenigstens zwei an entgegengesetzten Seiten des Pfeilers angeordneten Arretierplatten, die zum Anliegen gegen die Hohiraumwandung vorgesehen sind und eine im wesentlichen ebene, dem Pfeiler zugewandte Stuetzflaeche aufweisen, sowie mit einer ba– zahl Schraubelementen zum Verspannen des Pfeilers,dadurchgekennzeichne t, dass das Klemmstueck bzw. The device aligns posts in position in a case with an elongated hollow space which is symmetrical with reference to its longitudinal axis. This involves a clamping piece on one post side and stop plates on the two opposite sides. During alignment the clamping piece (3), stop plate (10) and screws (6) are sited together for displacement in the peripheral direction about the hollow space axis. This permits movement of the column (1) inside a plane determined by the rotation, with the post guided along the flat support surface (11) which faces it. For final alignment and setting the post into its selected position, the stop plates are clamped against the walling of the hollow space.

0) FR2381299A – JAUGE DE CONTRAINTE A FIL VIBRANT VIBRATING WI...

10) Family number: 1637564 (FR2381299A) © PatBase

Title: JAUGE DE CONTRAINTE A FIL VIBRANT VIBRATING WIRE STRAIN GAUGE WITH RAPID ASSEMBLY DESIGN – HAS WIRE IN HOLLOW TUBE WITH CRIMPED END CLAMPING

Priority: US19770769453 19770217

Family:

Publication number	Publication date	Application number	Application date
DE2734739 A1	19780824	DE19772734739	19770802
DE2734739 C2	19860206	DE19772734739	19770802
FR2381299 A1	19780915	FR19770026041	19770826
FR2381299 B1	19820416	FR19770026041	19770826

Probable Assignee: SLOPE INDICATOR CO

Assignee(s):(std)**:** SLOPE INDICATOR CO ; SLOPE INDICATOR CY

Assignee(s): THE SLOPE INDICATOR CO ; THE SLOPE INDICATOR CO SEATTLE WASH US

Inventor(s):(std)**:** HARRIS RICHARD K ; JEWSBURY CHARLES WILLIAM BILL ; SHOUP DALE W

Inventor(s): SHOUP DALE W WEST EDMONDS WASH US ; W SHOUP DALE ; JEWSBURY CHARLES WILLIAM BILL ST BELLEVUE WASH ; JEWSBURY CHARLES WILLIAM BILL ST BELLEVUE WASH US ; K HARRIS RICHARD ; HARRIS RICHARD K SEATTLE WASH US ; BILL JEWSBURY CHARLES WILLIAM

International class (IPC 8–9): G01L1/10 (Advanced/Invention); G01L1/10 (Core/Invention)

International class (IPC 1–7): G01B17/04 G01B5/30 G01L1/10

CPC: G01L1/10

European class: G01L1/10

Classification Explorer

Cited documents: US3052116 A, US2805482 A, GB1068154 A, FR2003497 A1,

Forward Citations: EP0160355,

Abstract:
Source: FR2381299A L'invention concerne une jauge de contrainte a fil vibrant Elle concerne notamment une jauge de contrainte a fil vibrant comprenant une bande de base metallique allongee adaptee a etre fixee invariablement a un element structural, un tube de metal dont l'un des cotes est soude invariablement a ladite bande le long de sa longueur, un fil vibrant s'etendant coaxialement dans ledit tube, a une certaine distance de sa paroi interieure, chaque extremite dudit tube etant sertie de facon a enserrer l'extremite du fil, ledit fil ayant une tension predeterminee qui est maintenue par ledit sertissage. L'invention s'applique, en particulier, aux appareils de mesure et, en particulier, aux jauges pour mesurer les contraintes et les efforts auquels sont soumis les materiaux de construction. A vibrating wire with a stressed wire in a housing connected to a test object is designed not to require fixing posts, carrier blocks, or guide plates. It may be assembled in between five and ten minutes using simple rapid tack welding. A metal tube is welded along one entire side to an oblong metal base plate. The vibration wire passes through the tube coaxially without touching it and is clamped at either end where the tube ends are constricted. The constriction of the tube is performed with the wire of the correct tension.

0) US4665587A – SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

11) Family number: 17139630 (US4665587A) © PatBase

Title: SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

Priority: JP19840167003U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575175 D1	19900208	DE19853575175	19851031
EP0180235 A2	19860507	EP19850113892	19851031
EP0180235 A3	19861029	EP19850113892	19851031
EP0180235 B1	19900103	EP19850113892	19851031
JP1941437 Y	19930716	JP19840167003U	19841102
JP4009410 Y2	19920309	JP19840167003U	19841102
JP61080978 U1	19860529	JP19840167003U	19841102
US4665587 A	19870519	US19850793247	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN KK ; TOYOTA JIDOSA KK ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** KINAGA EIICHI ; SHIRAISHI DAIICHI ; SHIRAISHI DIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class(IPC 8–9)**:** B60J5/04 E05D3/06 E05D3/10 (Advanced/Invention); B60J5/04 E05D3/00 (Core/Invention)

International class(IPC 1–7)**:** B60J5/04 E05D3/06 E05D3/10

CPC: Y10T16/54 Y10T16/5476 Y10T16/5478 E05D3/10

European class: E05D3/10

US class: 16/319 16/370 16/371

Classification Explorer

Cited documents: US3969789 A, US3339226 A, US3206186 A, US2008256 A, GB462033 A, FR2542796 A1, EP0140245 A2,

Forward Citations: US6817065, US6149222, US5524323, US2017241179,

Abstract:
Source: US4665587A A light weight, rigid side door hinge mechanism for a motor vehicle is disclosed. The hinge has four top rotary center shafts, two of which are supported at two positions spaced apart from each other in a generally horizontal direction on an end of the door, and the other two at two positions on a surface on the side of the vehicle body disposed adjacent to the end of the door. Four bottom rotary center shafts are also provided: two shafts are supported at two positions on the end of the side door and two shafts are supported at the surface of the side of the vehicle body. The four bottom shafts are aligned with the four top rotary center shafts. A top control arm is rotatably connected at its opposite ends to one of the top rotary center shafts on the vehicle body and one of the top rotary center shafts on the door. A bottom control arm is rotatably connected at opposite ends to the bottom rotary center shafts aligned with the top rotary center shafts at the opposite ends of the top control arm. A vertical integral main arm is rotatably connected at its ends in the vertical and lateral directions to the remaining top rotary center shaft and the remaining bottom rotary center shaft.

0) US4716623A – SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

12) Family number: 17381947 (US4716623A) © PatBase

Title: SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

Priority: JP19840167002U 19841102 JP19840167004U 19841102 JP19840167010U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575761 D1	19900308	DE19853575761	19851031
EP0180923 A2	19860514	EP19850113891	19851031
EP0180923 A3	19861029	EP19850113891	19851031
EP0180923 B1	19900131	EP19850113891	19851031
JP1941436 Y	19930716	JP19840167002U	19841102
JP1941438 Y	19930716	JP19840167004U	19841102
JP1941442 Y	19930716	JP19840167010U	19841102
JP4009409 Y2	19920309	JP19840167002U	19841102
JP4009412 Y2	19920309	JP19840167010U	19841102
JP4009418 Y2	19920309	JP19840167004U	19841102
JP61080977 U1	19860529	JP19840167002U	19841102
JP61080979 U1	19860529	JP19840167004U	19841102
JP61080985 U1	19860529	JP19840167010U	19841102
US4716623 A	19880105	US19850793152	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA K K ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** SHIRAISHI DAIICHI ; KINAGA EIICHI ; SHIRAISHI DIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/04 E05D11/06 E05D3/06 E05D3/10 (Advanced/Invention); B60J5/04 E05D11/00 E05D3/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/04 E05D11/06 E05D3/06 E05D3/10

CPC: Y10T16/522 Y10T16/5389 Y10T16/5476 Y10T16/5478 E05D3/147 E05D3/10 E05Y2900/531

European class: E05D3/10 E05D3/14V2 P05Y900/531

US class: 16/223 16/308 16/370 16/371 296/146 296/146.11

Classification Explorer

Cited documents: US4502182 A, US4474402 A, US3969789 A, US3889316 A, US3758990 A, US3427682 A, US3339226 A, US3206186 A, US2948917 A, US2008256 A, JP60064122 U1, JP60064122 U, JP60031474 U1, JP60031474 U, JP58036767 U1, JP58036767 U, JP57046014 U1, JP57046014 U, JP55101263 A2, GB462033 A, GB447734 A, FR2542796 A1, FR1285846 A, EP0140245 A2, EP0136714 A2, EP0135429 A1, EP0135114 A2, EP0126438 A2, DE3223938 A1, DE1075958 B,

Forward Citations: WO15032476, US8307512, US6974177, US6844497, US6817063, US6647592, US6382705, US6149222, US6052870, US5611114, US2017241179, US2010257700, US2009140551, US2005127712, US2003183411, FR2716842, DE102013014894, CN101858178, CN101858178,

Abstract:
Source: US4716623A A side door hinge mechanism for a motor vehicle includes a pair of top rotary center shafts supported on an end of the door at a top portion thereof, a pair of top rotary center shafts supported on the vehicle body, a pair of bottom rotary center shafts supported on the door, and a pair of bottom rotary center shafts

supported on the vehicle body. The bottom rotary center shafts are aligned with the top rotary center shafts. A top control arm in rotatably connected at opposite ends to one of the top rotary center shafts on the vehicle body and one of the top rotary center shafts on the door. A bottom control arm is rotatably connected at opposite ends to the bottom rotary center shafts which are aligned with the top rotary center shafts which are rotatably connected to the top control arm. A main arm is formed integrally in the vertical direction, and i rotatably connected at its end portion to the remaining top and bottom rotary center shafts. The main arm includes a large diameter pipe portion, a top arm and a bottom arm.

0) US5018784A – FLEXIBLE TOP APPARATUS OF A VEHICLE

13) Family number: 29584815 (US5018784A) © PatBase

Title: Flexible top apparatus of a vehicle

Priority: JP19880115562U 19880831 JP19880191605 19880730 JP19880218969 19880831

Family:

Publication number	Publication date	Application number	Application date
DE68910038 D1	19931125	DE19896010038	19890731
DE68910038 T2	19940505	DE19896010038T	19890731
EP0353695 A2	19900207	EP19890114128	19890731
EP0353695 A3	19910410	EP19890114128	19890731
EP0353695 B1	19931020	EP19890114128	19890731
JP1970897 C3	19950918	JP19880191605	19880730
JP1972456 C3	19950927	JP19880218969	19880831
JP2035826 U1	19900308	JP19880115562U	19880831
JP2041924 A2	19900213	JP19880191605	19880730
JP2060270 Y	19960326	JP19880115562U	19880831
JP2068220 A2	19900307	JP19880218969	19880831
JP6030511 Y2	19940817	JP19880115562U	19880831
JP6104417 B4	19941221	JP19880191605	19880730
JP6104419 B4	19941221	JP19880218969	19880831
KR930000747 B1	19930130	KR19890010794	19890729
US5018784 A	19910528	US19890386734	19890731

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP

Inventor(s):(std)**:** MATSUMOTO KENJI ; ODOI KOZO ; YOKOUCHI TAKAHITO ; OTOI KOJO ; OODOI KOUZOU

Inventor(s): YOKOUCHI TAKAHITO FUCHU CHO AKI GUN HIROSHIMA KEN ; ODOI KOZO FUCHU CHO AKI GUN HIROSHIMA KEN JP ; MATSUMOTO KENJI FUCHU CHO AKI GUN HIROSHIMA KEN JP ; YOKOUCHI TAKAHITO FUCHU CHO AKI GUN HIROSHIMA...

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J7/047 B60J7/06 B60J7/12 B60J7/185 B60J7/20 (Advanced/Invention); B60J7/00 B60J7/02 B60J7/04 B60J7/08 (Core/Invention)

International class (IPC 1–7)**:** B60J7/06 B60J7/12

CPC: B60J7/047 B60J7/061 B60J7/201

European class: B60J7/047 B60J7/06B B60J7/20B

US class: 296/219 296/223 296/224

Classification Explorer

Cited documents: US2964598 A, JP63162326 A2, GB444907 A, DE3816977 A1, CH149292 A,

Forward Citations: WO9425301, WO07093155, WO0114157, US9522591, US9283833, US7896430, US7320499, US6942286, US6428093, US6398296, US6288511, US6246199, US6114819, US6012767, US5971473, US5825147, US5765908, US5470126, US5451849, US5242210, US5190007, US2015165878, US2012161464, US2007096510, US2007024080, JP4558761, JP4534236, JP4243480, JP2011168275, JP2009096268, JP2007269318, JP2004513017, FR2928873, FR2898858, FR2797816, FR2797814, FR2797813, FR2679495, ES2153741, EP2103467, EP1500541, EP1123220, EP1078799, EP1063112, DE19604855, DE19531074,

Abstract:
Source: US5018784A In a roof panel connected to a vehicle body through at least a pair of left−hand and right−hand front pillars and a pair of left−hand and right−hand rear pillars, there is formed a roof opening large in size in such a manner as leaving a front header, a pair of left−hand and right−hand roof side rails, and a rear header and being surrounded by said four members. A foldable flexible top having a size as substantially large as the roof opening is provided. The flexible top is disposed to selectively take a first posture in which the roof opening is closed and a second posture in which it is contracted in a longitudinal direction of the body and placed in a contracted state, i.e., in a folded state, at a position nearby said rear header. Underneath the flexible top in the second posture, a board member supporting the flexible top is disposed, and the board member is movable between the second posture and a third posture rearward of the second posture by means of a guiding device consisting of a link mechanism and so on while the board member supports the flexible top. The third posture is set at a position in a vicinity of a lower end portion of the rear window glass panel.

0) US4970706A – FLEXTENSOR TRANSDUCER

14) Family number: 4335857 (US4970706A) © PatBase

Title: Flextensor transducer

Priority: FR19880014416 19881104

Family:

Publication number	Publication date	Application number	Application date
EP0367681 A1	19900509	EP19890403032	19891103
EP0583805 A1	19940223	EP19930117557	19891103
FR2639786 A1	19900601	FR19880014416	19881104
FR2639786 B1	19910726	FR19880014416	19881104
US4970706 A	19901113	US19890430574	19891101

Probable Assignee: THOMSON CSF

Assignee(s):(std)**:** THOMSON CSF

Inventor(s):(std)**:** LETICHE MICHEL ; TOCQUET BERNARD ; SCPI MICHEL LETICHE THOMSON CS

Inventor(s): BERNARD TOCQUET ET MICHEL LETICHE THOMSON CSF SCPI

Designated states: DE GB IT

International class (IPC 8–9)**:** B06B1/06 G10K9/12 (Advanced/Invention); B06B1/06 G10K9/00 (Core/Invention)

International class (IPC 1–7)**:** B06B1/06 G01S15/00 G10K9/12 H04R1/44 H04R17/00

CPC: B06B1/0618 G10K9/121

European class: B06B1/06C2C G10K9/12F

US class: 367/158 367/165

Classification Explorer

Cited documents: US4845687 A, US4764907 A, US4731764 A, US4420826 A, US4409681 A, US3731266 A, US3328751 A, US3274538 A, FR817640 A, FR2361033 A1, EP0215657 A2,

Forward Citations: WO9213338, WO9200612, WO9117539, US8088717, US8088716, US8076269, US7972555, US6515940, US6076630, US5949741, US5926439, US5497357, US5431058, US5337461, US5155709, US5130953, GB2259224, GB2259224, FR2672179, FR2663805, FR2663182, EP0517978, EP0462037, DE3914141, DE3914141, AU692960, AU639106,

Abstract:
Source: US4970706A The disclosed flextensor transducer enables the transmission and reception of acoustic waves in water at very great depths. It includes at least one pillar of piezoelectrical cells placed within an impervious shell. Each pillar is supported solely by a first end on the shell, and is compressed on the shell by a counter–mass applied to its second end.

0) US5187029A – ELECTROCHEMICAL CELL

15) Family number: 3815736 (US5187029A) © PatBase

Title: ELECTROCHEMICAL CELL

Priority: CA19912041632 19910501 CA19912042322 19910510 GB19900017903 19900815 GB19900017284 19900807 GB19900011035 19900516

Family:

Publication number	Publication date	Application number	Application date
BRPI9101991 A	19911224	BR1991PI01991	19910515
BRPI9101992 A	19911224	BR1991PI01992	19910515
CA2041632 AA	19911117	CA19912041632	19910501
CA2042322 AA	19911117	CA19912042322	19910510
DE4116053 A1	19911121	DE19914116053	19910516
DE4116079 A1	19911128	DE19914116079	19910516
DE4126057 A1	19920213	DE19914126057	19910806
FR2662305 A1	19911122	FR19910005952	19910516
FR2662305 B1	19940603	FR19910005952	19910516
FR2662307 A1	19911122	FR19910005951	19910516
FR2662307 B1	19940624	FR19910005951	19910516
FR2665801 A1	19920214	FR19910009990	19910806
GB2244593 A1	19911204	GB19910010562	19910516
GB2244593 B2	19940706	GB19910010562	19910516
GB2244594 A1	19911204	GB19910010563	19910516
GB2244594 B2	19940706	GB19910010563	19910516
GB2246904 A1	19920212	GB19910017019	19910807
GB2246904 B2	19941221	GB19910017019	19910807
GB9011035 A0	19900704	GB19900011035	19900516
GB9017284 A0	19900919	GB19900017284	19900807
GB9017903 A0	19900926	GB19900017903	19900815
GB9110562 A0	19910703	GB19910010562	19910516
GB9110563 A0	19910703	GB19910010563	19910516
GB9117019 A0	19910918	GB19910017019	19910807
IT1247544 B	19941217	IT1991MI01241	19910507
IT1248791 B	19950130	IT1991MI01347	19910516
ITMI911241 A0	19910507	IT1991MI01241	19910507
ITMI911241 A1	19911117	IT1991MI01241	19910507
ITMI911347 A0	19910516	IT1991MI01347	19910516
ITMI911347 A1	19911117	IT1991MI01347	19910516
JP4249869 A2	19920904	JP19910208970	19910516
JP5006777 A2	19930114	JP19910285402	19910807
JP6089722 A2	19940329	JP19910208971	19910516
SE9101467 A	19911117	SE19910001467D	19910515
SE9101467 A0	19910515	SE19910001467	19910515
SE9101467 L	19911117	SE19910001467	19910515
SE9101468 A	19911117	SE19910001468D	19910515
SE9101468 A0	19910515	SE19910001468	19910515
SE9101468 L	19911117	SE19910001468	19910515
US5187029 A	19930216	US19910700390	19910508
US5230968 A	19930727	US19910699810	19910513

US5279908 A	19940118	US19910740372	19910805	
ZA9103235 A	19920226	ZA19910003235	19910429	
ZA9103608 A	19920226	ZA19910003608	19910513	
ZA9106040 A	19920429	ZA19910006040	19910731	

Probable Assignee: PROGRAMME 3 PATENT HOLDINGS

Assignee(s):(std)**:** PROGRAMAS 3 PATENT HOLDINGS ; PUROGURAMU 3 PATENTO HOORUDEIN ; PROGRAMME 3 PATENT HOLDINGS LY ; PROGRAMME 3 PATENT HOLDINGS ; PROGRAMME AND PATENT HOLDINGS

Assignee(s): PROMGRAMME 3 PATENT HOLDINGS ; PROGRAMME 3 PATENT HOLDINGS LYS ROYAL LUXEMBURG LUXEMBOURG LU ; RANCE MARION R ; TEAGLE DAVID A ; BONES ROGER J ; COETZER JOHAN ; DUNCAN JAMES H ; DUNCAN JAMES HUGH ; PROGRAMME ; PROMGRAMME ; PUROGURAMU 3 PATENTO HOORUDEINGUSU ; PUROGURAMU 3 PATENT HOLDINGS

Inventor(s):(std)**:** BONES R J ; BONES ROGER J ; BONES ROGER JOH ; COETZER J ; COETZER JOHAN ; JAMES HUGH DUNCAN ; JIEIMUSU HIYUU DANKAN ; JOHAN COETZER ; JOHN BONES ROGER ; MARION ASHLEY TEAGLE DAVIDRUTH ; MARION RUTH RANCE ; MEARIAN RUUSU RANSU ; DAVID ASHLEY TEAGLE ; DEIBIDO ASHIRI TEIIGURE ; DUNCAN JAMES H ; DUNCAN JAMES HUGH ; HOHAN COETZER ; RANCE MARION R ; RANCE MARION RUTH ; ROGER JOHN BONES ; ROJIYAA JIYON BOUNSU ; ROJIYAA JIYON BOUNZU ; TEAGLE DAVID ; TEAGLE DAVID A ; TEAGLE DAVID ASHLEY ; YOHAN KOOTSUAA ; BONES ROGER JOHN ; RUTH TEAGLE DAVID ASHLEYRANCE

Inventor(s): ASHLEY TEAGLE DAVIDRUTH RANCE MARION ; TEAGLE DAVID ASHLEY SWINDON WILTSHIRE GB ; TEAGLE DAVID ASHLEYRANCE MARION RUTH ; RANCE MARION RUTH ABINGDON OXON GB ; HUGH DUNCAN JAMES ; J COETZER ; DUNCAN JAMES HUGH STAFFORD GB ; R J BONES ; COETZER JOHAN PRETORIA TRANSVALL ZA ; COETZER JOHAN PRETORIA ZA ; BONES ROGER JOHN ABINGDON OXFORDSHIRE GB ; COETZER HOHAN

Agent(s): SIM AND MCBURNEY; KAWAGUCHI YOSHIO

International class (IPC 8–9): H01M10/04 H01M10/39 H01M10/40 H01M2/18 H01M4/02 H01M4/64 (Advanced/Invention); H01M10/04 H01M10/36 H01M2/14 H01M4/64 (Core/Invention); B01J H01M (Subclass/Invention)

International class (IPC 1–7): H01M10/39 H01M10/40 H01M2/00 H01M2/02 H01M2/10 H01M2/14 H01M2/18 H01M4/02 H01M4/38 H01M4/40 H01M4/64 H01M4/66 H01M4/70 H01M4/76 H01M6/18 H01M6/20

CPC: H01M10/04 H01M10/3936 H01M2/18 H01M10/39

European class: H01M10/04 H01M10/39 H01M10/39B2D H01M2/18

US class: 429/102 429/103 429/104 429/139 429/162 429/191 429/208

Classification Explorer

Cited documents: US5051324 A, US4992345 A, US4975344 A, US4975343 A, US4925749 A, US4913754 A, US4853303 A, US4797333 A, US4797332 A, US4774156 A, US4772875 A, US4772449 A, US4722875 A, US4656102 A, US4626483 A, US4592969 A, US4568502 A, US4560627 A, US4546055 A, US4529676 A, US4424262 A, US4405696 A, US4279974 A, US4226923 A, US4197363 A, US4124740 A, US4110517 A, US4102042 A, US4049885 A, US3980496 A, US3112184 A, US2603670 A, US1368093 A, JP57048829 A2, GBB2208033, GBA2240424, GBA2226181, GBA2214344, GBA2210612, GBA2193837, GBA2018013, GB2340641 A1, GB2240424 A1, GB2231567 A1, GB2230641 A1, GB2226181 A1, GB2225667 A1, GB2214344 A1, GB2213312 A1, GB2210612 A1, GB2208033 A1, GB2193837 A1, GB2018013 A1, GB1558186 A, GB1505987 A, GB1495706 A, GB1465902 A, GB1452481 A, GB1421702 A, GB1274211 A, GB1105487 A, FR424008 A, FR2662305 A1, FR2599897 A1, FR2315778 A1, FR2153134 A1, FR2135125 A1, EP0064234 A1, DE64234 A, DE3338555 A1, DE1558186 A1,

Forward Citations: WO15106168, WO15021451, WO12026999, WO09050286, WO08141071, WO07030106, US9269929, US9190217, US9029001, US9005793, US8980459, US8652689, US8647767, US8576542, US8133606, US8057938, US7855017, US7407724, US7288126, US7279241, US7264904, US7264903, US6428585, US6007943, US5972533, US5763117, US5716731, US5616434, US5573873, US5573871, US5567544, US5563006, US5554457, US5532078, US5472806, US5279908, US2013316197, US2011236749, US2011206984, US2011206980, US2011164349, US2010178546, US2009229115, US2008280180, US2007292751, US2007210156, US2006003213, US2005153197, US2005048364, US2005048363, US2005048362,

JP2010092856, GB2286285, GB2286285, GB2285535, GB2285535, GB2280779, GB2280779, FR2708792, FR2665801, ES2124109, EP3080859, EP1671381, EP1671381, DE4427218,

Abstract:
Source: US5187029A The invention provides a high temperature rechargeable electrochemical power storage cell comprising a cell housing defining a cathode compartment containing a cathode and containing an anode structure located within the cathode compartment and comprising a plurality of holders filled with active anode material which is molten at the operating temperature of the cell. The anode structure defines a conduit containing active anode material and the holders are flattened in shape and spaced along the conduit in series from one another. The interior of each holder is in communication with the conduit and each holder has a pair of oppositely outwardly facing major faces extending transversely to the conduit and comprising a material which is a conductor of the active anode material. The cathode occupies the spaces between the holders and the cell includes a reservoir for active anode material in communication with the conduit, the reservoir in all states of charge of the cell being at least partially filled with active anode material.

0) US5133108A – PANEL ARTICULATION SYSTEM

16) Family number: 3079465 (US5133108A) © PatBase

Title: PANEL ARTICULATION SYSTEM

Priority: CA19912041393 19910429 EP19910200956 19910422 EP19910200956 19910422 EP19910200956 19910422 FR19900008426 19900626

Family:

Publication number	Publication date	Application number	Application date
AT86002 E	19930315	AT19910200956T	19910422
CA2041393 AA	19911227	CA19912041393	19910429
DE69100035 D1	19930401	DE19916000035	19910422
DE69100035 T2	19930930	DE19916000035T	19910422
EP0464878 A1	19920108	EP19910200956	19910422
EP0464878 B1	19930224	EP19910200956	19910422
ES2038878 T3	19930801	ES19910200956T	19910422
FR2663671 A1	19911227	FR19900008426	19900626
FR2663671 B1	19920911	FR19900008426	19900626
JP6280434 A2	19941004	JP19910247134	19910624
US5133108 A	19920728	US19910716647	19910617

Probable Assignee: FTFM LA TOULOUSAINE

Assignee(s):(std)**:** F T F M LA TOOL C NU ; FTFM LA TOULOUSAINE ; FTFM LA TOULOUSAINE S A ; FTFM LA TOULOUSAINE SA ; FTFM LA TOULOUSAINE SOC AN ; FTFM LA TOULOUSAINE SOCIETE AN ; FTFM TOULOUSAINE

Assignee(s): FTFM LA TOULOUSAINE SOC ANONYME ; FTFM LA TOULOUSAINE SOCIETE ANONYME ; FTFM LA TOULOUSAINE S A TOULOUSE FR ; ESNAULT PAUL

Inventor(s):(std)**:** ESNAULT PAUL ; POORU ESUNOO ; PAUL ESNAULT

Inventor(s): ESNAULT PAUL F 64121 MONTARDON FR

Agent(s): MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

International class (IPC 8–9)**:** E05D1/02 E05D1/04 E05D15/24 E05D7/00 E05F7/00 E06B3/48 E06B7/098 (Advanced/Invention); E05D1/02 E05D1/04 (Advanced/Non–invention); E05D1/00 E05D15/16 E05D7/00 E05F7/00 E06B3/32 (Core/Invention); E05D1/00 (Core/Non–invention)

International class (IPC 1–7)**:** E05D1/00 E05D1/02 E05D1/04 E05D15/24 E05D5/02 E05D7/00 E05F7/00 E06B3/48 E06B3/88 E06B7/098

CPC: Y10S16/13 E06B3/486 E05D1/02 E05D1/04 E05D15/242 E05Y2800/41 E06B3/485 E05Y2900/106 E05Y2900/11 Y10T16/525 Y10T16/542

European class: E05D15/24B E06B3/48C E06B3/48C2 P05D1/02 P05D1/04 P05Y800/41

US class: 16/225 16/355 16/DIG.13 160/229.1 160/231.2

Classification Explorer

Cited documents: WO8803588 A1, US3527283 A, US3326268 A, US3234996 A, US2952313 A, GB1571853 A, FR2347513 A1, DE2462091 A1,

Forward Citations: WO06116856, WO02056437, WO02056437, US9668879, US9632575, US9498270, US9486328, US9474626, US9445917, US9381092, US9358125, US9328550, US9316040, US9091116, US8940049, US8932302, US8906100, US8904720, US8771360, US8684066, US8636746, US8628577, US8540452, US8523944, US8303663, US7958679, US7874342, US7861374, US7857032, US7681621, US7673569, US7653969, US7594590, US7513081, US7435032, US7121317, US7111660, US6880297, US6833504, US6648052, US6640872, US6599055, US6564850, US6408486, US6336675, US6257304, US6098697, US6098247, US6076590, US6056037, US6015003, US5921307, US5915444, US5682643,

US5626176, US5613541, US5564164, US5560153, US5538178, US5502938, US5502930, US2013286553, US2013212973, US2012240492, US2011195371, US2011160861, US2011147327, US2011138948, US2010209184, US2010185291, US2008069632, US2007181267, US2007175601, US2007151203, US2007044927, US2007022571, US2007000623, US2006243691, US2006230512, US2005284074, US2005159839, US2004140065, US2004103997, US2004050572, US2003159378, JP6071975, JP2016084959, GB2410287, GB2314377, GB2314377, FR3037538, FR2997385, FR2912453, EP3112195, EP1772299, EP1352457, DE10356748, DE10356748,

Abstract:
Source: US5133108A An articulation system for two panels, comprising a flexible hinge (4) and edge sections (1, 2; 3) for the panels, for receiving and retaining the flexible hinge, a flexible hinge (4) having a central tubular portion (13) arranged in the vicinity of the median plane of the panels is provided and includes two flanges (14, 15) adapted to snap lock into the edge sections; the latter comprise channels (L1, L2) permitting this snap locking engagement, and guide surfaces (S, Sc; Sax, Sac, AL) are arranged on respective parts about the median plane of the panels, for guiding their pivotal movement about an axis of rotation passing through the central tubular portion of the flexible hinge. The invention may in particular be used with sectional doors.

0) US5398989A – CENTRAL PILLAR FOR THE BODYWORK OF A PASSENGER ...

17) Family number: 9333911 (US5398989A) © PatBase

Title: CENTRAL PILLAR FOR THE BODYWORK OF A PASSENGER CAR

Priority: DE19904040980 19901220 DE19914139303 19911129 DE19915002673 19911129 WO1991EP02264 19911129

Family:

Publication number	Publication date	Application number	Application date
DE4139303 A1	19920625	DE19914139303	19911129
DE59102673 D1	19940929	DE19915002673	19911129
EP0561840 A1	19930929	EP19910920766	19911129
EP0561840 B1	19940824	EP19910920766	19911129
ES2063531 T3	19950101	ES19910920766T	19911129
JP6503778 T2	19940428	JP19910518684T	19911129
US5398989 A	19950321	US19930075591	19930615
WO9211158 A1	19920709	WO1991EP02264	19911129

Probable Assignee: AUDI AG

Assignee(s):(std)**:** AUDI AG ; AUDI NSU AUTO UNION AG

Assignee(s): AUDI AG 85057 INGOLSTADT DE ; AUDI AG 8070 INGOLSTADT DE ; AUDI 8070 INGOLSTADT DE AG ; AUDI 85057 INGOLSTADT DE AG ; AUDI A G

Inventor(s):(std)**:** ENNING NORBERT ; ENNING NORBERT DIPL ING ; KLAGES ULRICH ; KLAGES ULRICH DIPL ING ; REITER KARL ; REITER KARL DIPL ING ; SCHMOLKE KLAUS ; SCHMOLKE KLAUS DIPL ING ; WINTER KARIN ; WINTER KARIN DIPL ING

Inventor(s): WINTER KARIN DIPL ING 8074 GAIMERSHEIM DE ; WINTER KARIN D 8074 GAIMERSHEIM DE ; SCHMOLKE KLAUS DIPL ING 8071 HEPBERG DE ; SCHMOLKE KLAUS D 8071 HEPBERG DE ; REITER KARL DIPL ING 8071 LENTING DE ; REITER KARL D 8071 LENTING DE ; KLAGES ULRICH DIPL ING 8070 INGOLSTADT DE ; KLAGES ULRICH D 8070 INGOLSTADT DE ; ENNING NORBERT DIPL ING 8071 DENKENDORF DE ; ENNING NORBERT D 8071 DENKENDORF DE

Designated states: AT BE CH DE DK ES FR GB GR IT JP LU NL SE US

International class (IPC 8–9): B62D25/04 B62D29/00 (Advanced/Invention); B62D25/04 B62D29/00 (Core/Invention)

International class (IPC 1–7): B23K31/02 B62D25/04 B62D29/0 B62D29/00

CPC: Y10T29/49995 Y10T29/49996 B62D25/04 B62D29/008

European class: B62D25/04 B62D29/00C

US class: 29/557 29/558 296/187.12 296/188 296/193.06 296/202 296/203 296/203.03 296/205 52/731.6 72/254

Classification Explorer

Cited documents: WO9014981 A1, US4988230 A, US4986597 A, US4826238 A, US2197644 A, US2192075 A, JP59050938 A2, JP59050938, GB737655 A, GB575601 A, EP0303431 A1, DE3709489 A1, DE3429447 A1, DE3406609 A1,

Forward Citations: WO9932346, WO9304897, WO13077200, WO12035662, WO0130638, USD582337, US9738324, US9308941, US8668251, US8511744, US8272682, US7654002, US7562929, US7540558, US7510234, US7431378, US7264022, US7123014, US7123014, US6935681, US6863389, US6827390, US6779835, US6733064, US6607239, US6595579, US6572181, US6557929, US6513860, US6332643, US6279990, US6267438, US6254174, US6217109, US6076250, US6073992, US5577796, US2011254315, US2011025100, US2008100075, US2008036235, US2008030050, US2007236050, US2007228776, US2006102243, US2006053733, US2005242815, US2004189053, US2004135862, US2004130185, JP5663669, FR2977556, EP2749480, EP2749480, EP1659200, EP1498345, EP1498345, EP1498344, EP1498344, EP1247724, EP1231130, EP1231130, EP1170197, EP1138581, EP0896919, EP0896919, EP0834443, DE4308182, DE19948363, DE19754248, DE19731284, DE19713760, DE19644047, DE19638904, DE19633907,

DE19619936, DE19518946, DE10357907, DE10337709, DE10337709, DE10333037, DE10333037, DE10332631, DE102006032472, DE102006012626, DE102005017980, DE102004044056, CN103813954,

Abstract:
Source: US5398989A PCT No. PCT/EP91/02264 Sec. 371 Date Jun. 15, 1993 Sec. 102(e) Date Jun. 15, 1993 PCT Filed Nov. 29, 1991 PCT Pub. No. WO92/11158 PCT Pub. Date Jul. 9, 1992.The invention relates to a conical central pillar assembly for the bodywork of a passenger car, especially a bodywork having a space−frame bearing structure constructed from extruded light metal section bearers and cast light metal joining elements. According to the invention, the central pillar assembly includes a substantially plate−like base section wall having a multi−layer, multi−chamber extruded section disposed thereon. The section chambers in the outermost layers are selectively cut at various heights in step wise fashion in order to produce a desired conical cross section with a wide base portion and narrow top portion. Additional cuts are made in the outermost section chambers to form recesses for accommodating door locks, hinge assemblies and the like. An additional piece, preferably in the form of a light metal casting or a sheet metal stamping, is provided and forms an outer cover for at least a bottom portion of the central pillar.

0) DE4125299A1 – VEHICLE DOOR REINFORCEMENT SYSTEM – MOVES OUTSI...

18) Family number: 10407829 (DE4125299A1) © PatBase

Title: Vehicle door reinforcement system – moves outside door under external force to engage with posts and threshold

Priority: DE19914125299 19910731

Family:

Publication number	Publication date	Application number	Application date
DE4125299 A1	19930204	DE19914125299	19910731
DE4125299 C2	19960905	DE19914125299	19910731

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Assignee(s): BAYERISCHE MOTOREN WERKE AG 8000 MUENCHEN DE ; BAYERISCHE MOTOREN WERKE AG 80809 MUENCHEN DE

Inventor(s):(std)**:** ALTMANN OTTO

Inventor(s): ALTMANN OTTO 8011 KIRCHSEEON DE

International class (IPC 8–9)**:** B60J5/04 (Advanced/Invention)

International class (IPC 1–7)**:** B60J5/04 B60R21/02

CPC: B60J5/0437 B60J5/0447

European class: B60J5/04E2C B60J5/04E2D4D

Classification Explorer

Cited documents: DE4032992 A1, DE3131778 A1, DE2414114 A1, DE2215674 B1,

Forward Citations: WO9528295, WO06122725, WO05102752, WO0144679, US7905517, US7735901, US7610984, US7547062, US5895088, US5429410, FR2989636, FR2955055, EP1692033, EP1663683, DE4342038, DE202010003756, DE19633637, DE112007000020, DE10357311, DE10341329, DE10341329, DE102015208779, DE102007044276, DE102007044276, DE102005041079, DE102005011162, DE102004020471,

Abstract:
Source: DE4125299A1 The motor–vehicle door is accommodated between vertical posts joined by a threshold running in the lengthwise direction. Between the external sheet–metal and the internal cladding is an energy absorbing reinforcing system. Under external force, one end at least of the reinforcing system moves outside the door, so as to engage in a post and/or the threshold. This end can be guided in the door edge, being normally roughly flush with it. In the initial position it can be arched towards the outside of the door, working in guides at the front and rear edges. It can be of fibre–reinforced plastic, with glass fibres at the convex side, carbon–fibres at the concave side, and Kevlar fibres in between. ADVANTAGE – Positive transmission of energy to vehicle structure on side collision.

0) DE4203364A1 – SIDE WINDOW FOR VEHICLE HAVING NO B–POST – USES...

19) Family number: 10709969 (DE4203364A1) © PatBase

Title: SIDE WINDOW FOR VEHICLE HAVING NO B–POST – USES HOLDER ON REAR WINDOW PANE TO CARRY SEAL FOR LEADING WINDOW PANE

Priority: DE19924203364 19920206

Family:

Publication number	Publication date	Application number	Application date
DE4203364 A1	19930812	DE19924203364	19920206
DE4203364 C2	19931223	DE19924203364	19920206

Probable Assignee: DAIMLER BENZ AG

Assignee(s):(std): DAIMLER BENZ AG

Assignee(s): MERCEDES BENZ 7000 STUTTGART DE AG ; MERCEDES BENZ 70327 STUTTGART DE AG ; MERCEDES BENZ AKTIENGESELLSCHAFT 7000 STUTTGART DE ; MERCEDES BENZ AKTIENGESELLSCHAFT 70327 STUTTGART D ; MERCEDES BENZ AKTIENGESELLSCHAFT 70327 STUTTGART DE

Inventor(s):(std): HUBER PETER

Inventor(s): HUBER PETER 6725 ROEMERBERG DE

International class (IPC 8–9): B60J1/00 B60J1/17 B60J10/00 B60J10/04 (Advanced/Invention); B60J1/00 B60J1/17 B60J10/00 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J1/17 B60J10/04 E06B7/16

CPC: B60J1/001 B60J1/17 B60J10/30 B60J10/70 B60J10/74

European class: B60J1/00B B60J1/17 B60J10/00G B60J10/02 B60J10/04

Classification Explorer

Cited documents: DE1140471 B,

Forward Citations: WO06024427, US8171682, US8146645, US7866727, US6976727, EP1781483, EP1415832, DE29712859, DE202014106202, DE19711368, DE102004041741, DE10055897,

Abstract:
Source: DE4203364A1 The side window is for a vehicle such as a coupe or cabriolet not having a B–post. It consists of a lowerable, frameless driver's window pane (2), where the rear pane is fitted with a strip to hold a sealing profile for the driver's pane. The strip is in two parts. There is a holding part (3) attached to the rear pane, and an adjustably held sliding strip (4) to which the sealing profile (5) is fitted. USE/ADVANTAGE – The arrangement allows a simple adjustment of the seal to accommodate tolerance differences in the gap between the two panes.

0) BRPI9201484A – SISTEMA DE ENCAIXE E DE FIXACAO DE PAINEIS DE M...

20) Family number: 31706466 (BRPI9201484A) © PatBase

Title: SISTEMA DE ENCAIXE E DE FIXACAO DE PAINEIS DE MADEIRA PARA CASAS PRE–FABRICADAS DOCKING SYSTEM AND FIXATION OF WOOD PANELS FOR PRE–FABRICATED HOUSES (Machine translation)

Priority: BR1992PI01484 19920423

Family:

Publication number	Publication date	Application number	Application date
BRPI9201484 A	19931026	BR1992PI01484	19920423

Probable Assignee: GERARD MAURICE TREZEGUET

Assignee(s):(std)**:** GERARD MAURICE TREZEGUET

Inventor(s):(std)**:** TREZEGUET GERARD MAURICE

Inventor(s): GERARD MAURICE TREZEGUET

International class (IPC 8–9): E04C2/10 (Advanced/Invention); E04C2/10 (Core/Invention)

International class (IPC 1–7): E04C2/10

Classification Explorer

Abstract:
Source: BRPI9201484A [Source: Claim 1] 1 – SISTEMA DE ENCAIXE E DE FIXACAO DE PAINEIS DE MADEIRA PARA CASAS PRE–FABRICADAS, carac terizado por ser constituido de paineis (1) dotados in 5 ternamente de isolamento termico (2) e providos de co lunas verticais (3); travessas horizontais (4) e tra vessa horizontal inferior com guia (5), tendo extremi dades laterais recortadas para formar perfis tipo ma cho (6) e femea (7) com orificios (10) para fixacao e 10 com revestimento externo (8) a base de filme plastico "polyane"; ditos paineis contendo na parte inferior uma tela plastica (9)? revestidos externamente por es camas (11) de perfil macho–femea arrematadas por mata– –gunta (12) e revestidos internamente por lambris(13).

0) US5653495A – REINFORCED DOOR APERTURE FRAME FOR REDUCING DEF...

21) Family number: 9333308 (US5653495A) © PatBase

Title: Reinforced door aperture frame for reducing deformation from offset collisions

Priority: SE19920002619 19920911 WO1993SE00739 19930910

Family:

Publication number	Publication date	Application number	Application date
DE4394609 T	19950720	DE19934394609T	19930910
DE4394609 T1	19950720	DE19934394609T	19930910
SE500174 C2	19940502	SE19920002619	19920911
SE9202619 A	19940312	SE19920002619D	19920911
SE9202619 A0	19920911	SE19920002619	19920911
SE9202619 L	19940312	SE19920002619	19920911
US5653495 A	19970805	US19950397204	19950310
WO9406669 A1	19940331	WO1993SE00739	19930910

Probable Assignee: SAAB AUTOMOBILE AKTIEBOLAG

Assignee(s):(std): BENGISSON JAN ; BOVELLAN KENT ; SAAB AUTOMOBILE

Assignee(s): SAAB AUTOMOBILE AB ; SAAB AUTOMOBILE AKTIEBOLAG ; SAAB AUTOMOBILE AB TROLLHAETTAN SE

Inventor(s):(std): BOVELLAN K ; BOVELLAN KENT ; BENGISSON JAN ; BENGTSSON JAN

Inventor(s): BENGTSSON JAN TROLLHAETTAN SE ; BOVELLAN KENT TROLLHAETTAN SE ; JAN BENGTSSON ; K BOVELLAN ; KENT BOVELLAN

Designated states: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE US

International class (IPC 8–9): B62D21/15 (Advanced/Invention); B62D21/15 (Core/Invention)

International class (IPC 1–7): B62D25/02 B62D25/04 B62D25/08

CPC: B62D21/15 B62D21/1

European class: B62D21/15

US class: 296/187.1 296/188 296/198 296/203.03 296/204 296/209 296/30

Classification Explorer

Cited documents: US5354115 A, US5246264 A, US5085484 A, US5042872 A, US4944553 A, US4723811 A, US4552400 A, US4550948 A, US3591231 A, US2967072 A,

Forward Citations: WO05118375, WO0200366, US9505448, US9469347, US9266567, US9162707, US9132861, US9073586, US8960780, US8888173, US8857896, US8371643, US7731272, US7243981, US6830077, US6709047, US6705667, US6698823, US6679547, US6601873, US6572181, US6478366, US6364358, US6322134, US6286867, US6196621, US6053566, US6053564, US5988733, US5951097, US5944440, US2015375807, US2015048654, US2014306490, US2012074731, US2010295336, US2009243336, US2009167056, US2006273627, US2004012230, US2003146649, FR2933059, EP1132280, EP1044863, EP0980815, EP0825096, EP0825096, DE102014112882, DE102010052794, DE102010022151, DE102009042188, DE102009015157, DE102008056507, DE10007358,

Abstract:
Source: US5653495A PCT No. PCT/SE93/00739 Sec. 371 Date Mar. 10, 1995 Sec. 102(e) Date Mar. 10, 1995 PCT Filed Sep. 10, 1993 PCT Pub. No. WO94/06669 PCT Pub. Date Mar. 31, 1994An extra U–shaped pressed plate profile (20) is arranged at the connection (13) between the A–pillar (3) and sill (5), inside a closed hollow beam running around the door aperture, which plate profile runs from the front lateral wall of the A–pillar obliquely rearwards to the lower lateral wall of the sill beam, thereby providing a double wall with spaced plates (26, 27). The double wall enables a local plastic deformation zone to be provided for impact of the wheel against the door aperture frame, and enables the wheel to be locked so that it does not migrate up the A–pillar, thereby providing controlled deformation and absorption of crash forces without the entire door aperture frame collapsing. The rear plate (27) forms a secondary closed hollow beam inside the door aperture frame which, during the deformation of

the front plate (26), retains a closed stable door aperture frame with adjoining sections of the A–pillar (3) and sill (5). Controlled deformation behavior, substantially reduced floor penetration and reduced deformation of the door aperture are obtained at low cost and little required increase in weight of the vehicle body.

0) US5775043A – UNDERGROUND CONSTRUCTION

22) Family number: 29154252 (US5775043A) © PatBase

Title: UNDERGROUND CONSTRUCTION

Priority: JP19930165120 19930610 JP19930165121 19930610 JP19930165122 19930610 US19940258660 19940610 JP19940130864 19940523 JP19930165125 19930610 JP19930165123 19930610 JP19930165124 19930610 JP19930165126 19930610 US19970814891 19970321

Family:

Publication number	Publication date	Application number	Application date
AT160404 E	19971215	AT19940304156T	19940609
AU199464647 A1	19941215	AU19940064647	19940609
AU677050 B2	19970410	AU19940064647	19940609
DE69406872 D1	19980102	DE19946006872	19940609
DE69406872 T2	19980625	DE19946006872T	19940609
EP0641896 A2	19950308	EP19940304156	19940609
EP0641896 A3	19950726	EP19940304156	19940609
EP0641896 B1	19971119	EP19940304156	19940609
ES2110698 T3	19980216	ES19940304156T	19940609
JP2773071 B2	19980709	JP19940130864	19940523
JP3014567 B2	20000228	JP19930165120	19930610
JP3233246 B2	20011126	JP19930165121	19930610
JP3264340 B2	20020311	JP19930165123	19930610
JP3264341 B2	20020311	JP19930165124	19930610
JP3264342 B2	20020311	JP19930165126	19930610
JP3292259 B2	20020617	JP19930165122	19930610
JP3319629 B2	20020903	JP19930165125	19930610
JP6346469 A2	19941220	JP19930165123	19930610
JP6346476 A2	19941220	JP19930165122	19930610
JP6346477 A2	19941220	JP19930165124	19930610
JP6346478 A2	19941220	JP19930165126	19930610
JP6346503 A2	19941220	JP19930165125	19930610
JP6346619 A2	19941220	JP19930165120	19930610
JP6346620 A2	19941220	JP19930165121	19930610
JP7317086 A2	19951205	JP19940130864	19940523
US5775043 A	19980707	US19940258660	19940610
US5832680 A	19981110	US19970814891	19970321

Probable Assignee: MUROI HIROSHI

Assignee(s):(std)**:** KO MUROI ; MUROI HIROSHI ; MUROI KO

Assignee(s): MUROI KO EBINA KANAGAWA JP

Inventor(s):(std)**:** KO MUROI ; MUROI HIROSHI ; MUROI KO

Inventor(s): MUROI KO EBINA KANAGAWA JP

Agent(s): FB RICE

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): E02D29/00 E02D29/045 E03F1/00 E03F5/10 E04B1/35 E04F17/04 E04H1/00 E04H3/00 E04H6/00 E04H6/10 E04H7/00 E04H7/18 E21D13/00 F24F5/00 F24F7/04 (Advanced/Invention); E02D29/00 E02D29/045 E03F1/00 E03F5/10 E04B1/35 E04F17/00 E04H1/00 E04H3/00 E04H6/00 E04H7/00 E21D13/00 F24F5/00 (Core/Invention)

International class (IPC 1–7):	A01G9/14 E02D29/00 E02D29/04 E02D29/045 E02D29/045 E03F1/00 E03F5/10 E04B1/34 E04B1/35 E04F11/00 E04F17/04 E04H1/00 E04H3/00 E04H6/00 E04H6/10 E04H6/18 E04H7/00 E04H7/18 E21D13/00 F24F5/00
CPC:	F24F7/04 E02D29/045 E04H6/10
European class:	E02D29/04 E02D29/045 E04H6/10 F24F7/04
US class:	414/244 52/169.6 52/169.7 52/169.8 52/169.9 52/174 52/175 52/274
Classification Explorer	
Cited documents:	US5046910 A, US5007244 A, US4637176 A, US4608785 A, US4231201 A, US4078346 A, US4033078 A, US3686816 A, US3396502 A, SU1756464 T, SU1258971 T, GB2157733 A1, FR2681088 A1, EP0118723 A2, DE3620650 A1, DE2835360 A1,
Forward Citations:	WO13010068, WO13010068, WO10127751, WO10127751, WO07108051, WO04033843, WO04033843, USD610701, US9404265, US9127468, US7705863, US7025537, US6616380, US2014078652, US2011146489, US2011130871, US2010325973, US2008222968, US2008172954, US2007124119, US2004236393, US2004096277, RU2519321, KR101405837, JP6236065, JP3346428, EP1548208, DE10123238, DE10123238, CN105714995, CN105569161, CN102239309,

Abstract:
Source: US5775043A An underground construction has: a circumference wall forming therein a cone shaped space; plural support members located at the circumference of the cone shaped space at vertically the same height; floor construction bodies each having plural bed beams and a floor portion, the ends of the bed beams being supported by the support members, and the floor portions being disposed in the middle of the cone shaped space at a fixed interval from the circumference wall. No pillars for supporting the floors are needed, thereby leaving a maximum clear space on the floors for use.

0) US5527583A – STRUCTURE FOR ATTACHMENT OF WEATHER STRIP

23) Family number: 10450748 (US5527583A) © PatBase

Title: STRUCTURE FOR ATTACHMENT OF WEATHER STRIP

Priority: JP19930343865 19931216 JP19940114520 19940428 JP19940114596 19940430 JP19940159264 19940617 JP19940114598 19940430 JP19940200237 19940802 JP19940234303 19940902 JP19940252846 19940921 JP19990229878 19990816

Family:

Publication number	Publication date	Application number	Application date
DE69410413 D1	19980625	DE19946010413	19941214
DE69410413 T2	19990218	DE19946010413T	19941214
EP0658455 A1	19950621	EP19940119778	19941214
EP0658455 B1	19980520	EP19940119778	19941214
JP2000052782 A2	20000222	JP19990229878	19990816
JP3166480 B2	20010514	JP19940114520	19940428
JP3214493 B2	20011002	JP19990229878	19990816
JP3365083 B2	20030108	JP19940234303	19940902
JP7291056 A2	19951107	JP19940114520	19940428
JP7300049 A2	19951114	JP19940114596	19940430
JP7300051 A2	19951114	JP19940114598	19940430
JP8058488 A2	19960305	JP19940234303	19940902
JP8099537 A2	19960416	JP19940252846	19940921
US5527583 A	19960618	US19940357925	19941216

Probable Assignee: TOYODA GOSEI CO LTD

Assignee(s):(std): TOYODA GOSEI KK

Assignee(s): TOYODA GOSEI CO ; TOYODA GOSEI CO LTD ; TOYODA GOSEI CO LTD HARUHI AICHI JP

Inventor(s):(std): NOZAKI MASAHIRO ; HIKOSAKA ATSUSHI ; NOZAKI MASAHIRO C O TOYODA GOS ; HIKOSAKA ATSUSHI C O TOYODA GO

Inventor(s): HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO... ; HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO PLANT N ; HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO PLANT ; HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO PLANT NAKASHIMA GUN AICHI KEN 490 13 JP ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHO PLANT ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHOPLANT NAKASHIMA GUN AICHI KEN 490 13 JP ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHOPLANT... ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHOPLANT NAK

Designated states: DE FR GB

International class (IPC 8–9): B60J10/00 B60J10/04 B60J10/06 B60R13/06 (Advanced/Invention); B60J10/00 B60J10/02 B60R13/06 (Core/Invention)

International class (IPC 1–7): B60J10/00 B60J10/02 B60J10/04 B60R13/06

CPC: Y10T428/24008 Y10T428/24959 Y10T428/24967 Y10T428/24983 B60J10/35 B60J10/84 B60J10/16 B60J10/248 B60J10/79

European class: B60J10/00C2 B60J10/00D3 B60J10/00D5E B60J10/00G2B B60J10/06 B60J10/08B

US class: 296/146.9 296/93 428/214 428/215 428/217 428/31 428/99 49/475.1

Classification Explorer

Cited documents: US5356194 A, US5304409 A, US5154952 A, US5149169 A, JP64068218 A2, JP6115354, JP5089104 U, JP4081816 U, JP3129543 U, JP3060144 U, JP1112110 A2, EP0357973 A1, EP0233552 A1, EP0111738 A2,

Forward Citations: WO11009116, WO0121425, US9616734, US8979164, US8176681, US8075042, US7581354, US7350849, US7293820, US7121046, US7083222, US7083222,

US6946194, US6938378, US6883847, US6860067, US6848218, US6811194, US6810624, US6748702, US6644718, US6623067, US6617015, US6539671, US6453618, US6439641, US6286841, US6143397, US6012760, US6007140, US5848819, US5791722, US2016250912, US2012139191, US2012023831, US2010207424, US2009071077, US2009064592, US2009001754, US2006265995, US2006138801, US2005235573, US2005189783, US2005074604, US2005057058, US2004255520, US2004018339, US2004010976, US2003121210, JP7329579, JP6101211, JP4032250, JP3829664, JP3794386, JP3331876, JP2985668, JP2016107854, JP2014504993, JP2007168552, JP2006298075, JP2004516341, JP2004359068, JP2003054329, JP10053026, EP1419919, DE29916383, DE19716395, DE19716395, DE102009009722, DE102007011918,

Abstract:
Source: US5527583A A structure for attachment of a weather strip to an opening of a vehicle body, which is opened and closed by a closing member. A base portion of the weather strip is bonded with two double−sided adhesive tapes to the vehicle body in the longitudinal direction thereof. The outer double−sided adhesive tape has thickness greater than that of the inner double−sided adhesive tape, and the material of the outer double−sided adhesive tape is softer than that of the inner double−sided adhesive tape.

0) US6042301A – RIVER BANK FLOOD BARRIER

24) Family number: 11306381 (US6042301A) © PatBase

Title: RIVER BANK FLOOD BARRIER

Priority: FR19950008596 19950717 WO1996FR01094 19960715

Family:

Publication number	Publication date	Application number	Application date
AT241044 E	20030615	AT19960925785T	19960715
CA2227229 AA	19980116	CA19962227229	19960715
DE69628299 D1	20030626	DE19966028299	19960715
DE69628299 T2	20040325	DE19966028299T	19960715
EP0839231 A1	19980506	EP19960925785	19960715
EP0839231 B1	20030521	EP19960925785	19960715
FR2736948 A1	19970124	FR19950008596	19950717
FR2736948 B1	19970814	FR19950008596	19950717
JP11509283 T2	19990817	JP19970506343T	19960715
US6042301 A	20000328	US19980983425	19980102
WO9704177 A1	19970206	WO1996FR01094	19960715

Probable Assignee: SOVRAN JEAN PAUL

Assignee(s):(std)**:** SOVRAN JEAN PAUL

Inventor(s):(std)**:** SOVRAN JEAN PAUL

Agent(s): GOUDREAU GAGE DUBUC

Designated states: AT BE CA CH DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE US

International class (IPC 8–9)**:** E02B3/00 E02B3/10 E02B7/22 E04H9/14 (Advanced/Invention); E04B1/00 (Advanced/Non–invention); E02B3/00 E02B3/10 E02B7/20 E04H9/14 (Core/Invention); E04B1/00 (Core/Non–invention)

International class (IPC 1–7)**:** E02B3/00 E02B3/10 E02B7/14 E02B7/22 E04B17/16 E04B17/22 E04B2/00 E04H12/22 E04H9/14

CPC: E02B3/106 E04H9/145 E02B7/22 E04B2001/2684 E04H9/14

European class: E02B3/10 E02B7/22 E04H9/14 E04H9/14F P04B1/26B40A

US class: 256/19 405/112 405/114 52/780

Classification Explorer

Cited documents: US830437 A, US5118217 A, US4913594 A, US4804299 A, US4050254 A, US3728862 A, US3381483 A, US2315516 A, US1714949 A, US1079113 A, NL9201601 A, JPS6149013, FR2259187 A1, EP0163292 B1, EP0163292 A2, DE2158977 A1, DE1900583 A1,

Forward Citations: WO15048934, WO11009418, WO06062393, WO06062393, WO05088016, WO04063471, WO04044334, US9771699, US9730431, US9562336, US9394665, US9366030, US9127426, US8997436, US8813447, US8414223, US8287209, US8266859, US8266845, US8051612, US8011855, US7997828, US7976240, US7793466, US7651073, US7614829, US7364385, US7303358, US7214005, US6884002, US6672015, US6450733, US6443655, US6427417, US2016244927, US2015191885, US2015089888, US2013008126, US2012243941, US2012087733, US2010150656, US2009142136, US2009133354, US2008163569, US2008127580, US2006177277, US2004265063, US2004261338, US2004250477, US2003223824, JP2015535040, JP2011158469, GB2386633, GB2369643, GB2369147, EP1707685, DE202013102658, DE202010012447, DE19921741, DE102014108274, DE102011111127, DE102011111127, DE102005013993, DE102004012295, DE10101235, CN103898997, AU2016101741, AU2004322248,

Abstract:
Source: US6042301A PCT No. PCT/FR96/01094 Sec. 371 Date Jan. 2, 1998 Sec. 102(e) Date Jan. 2, 1998 PCT Filed Jul. 15, 1996 PCT Pub. No. WO97/04177 PCT Pub. Date Feb. 6, 1997A barrier forming a temporary dam that may be erected quickly alongside a river in spate to protect a flood–prone area. The barrier (11) mainly

consists of extractable piles (15) fitted in holes in the ground, and removable water−tight members (20) that may be mounted between the piles once they have been drawn out of the respective holes. The water−tight members may be made of a stack of metal beams and thick bars.

0) US2001038223A – ROTATING VEHICLE SEAT

25) Family number: 28151147 (US2001038223A) © PatBase

Title: Rotating vehicle seat

Priority: JP19970085352 19970403 JP19970237211 19970902 US20010788884 20010220 WO1998JP01570 19980403 US20000402377 20000222

Family:

Publication number	Publication date	Application number	Application date
AU199873216 A1	19981022	AU19980073216	19980403
AU740522 B2	20011108	AU19980073216	19980403
CA2285597 AA	19991004	CA19982285597	19980403
CA2285597 C	20030930	CA19982285597	19980403
CN1128075 C	20031119	CN19988004744	19980403
CN1254312 A	20000524	CN19988004744	19980403
DE69828959 D1	20050317	DE19986028959	19980403
DE69828959 T2	20060119	DE19986028959T	19980403
EP0972671 A1	20000119	EP19980960847	19980403
EP0972671 A4	20000119	EP19980960847	19980403
EP0972671 B1	20050209	EP19980960847	19980403
JP10329591 A2	19981215	JP19970237211	19970902
JP3269433 B2	20020325	JP19970237211	19970902
KR100312111 B1	20011103	KR19997009124	19991004
US2001038223 AA	20011108	US20010788884	20010220
US6557919 BB	20030506	US20010788884	20010220
WO9843849 A1	19981008	WO1998JP01570	19980403

Probable Assignee: TOYOTA AUTO BODY CO LTD

Assignee(s):(std)**:** HIJIKATA TAKAFUMI ; IWATANI MASAMITSU ; MIURA YOSHIYUKI ; SUGA YASUO ; TAKENOSHITA TADASHI ; TANAKA MINEKI ; TOYOTA AUTO BODY CO LTD ; YASUO SUGA ; TOYOTA SHATAI KABUSHIKI KAISHA

Assignee(s): TOYOTA SHATAI K K KARIYA ; TOYOTA SHATAI KK ; TOYOTA SHATAI K K

Inventor(s):(std)**:** TADASHI TAKENOSHITA ; TAKENOSHITA MASA ; TAKENOSHITA TADASHI ; TANAKA MINEKI ; TANAKA MINEO ; YASUO SUGA ; YOSHIYUKI MIURA ; YASUO SUYA ; TAKAFUMI HIJIKATA ; MASAMITSU IWATANI ; HIJIKATA TAKAFUMI ; IWATANI MASAMITSU ; MINEKI TANAKA ; MIURA YOSHIYUKI ; SUGA YASUO

Inventor(s): SUYA YASUO

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; GOWLING LAFLEUR HENDERSON LLP

Designated states: AT AU BE CA CH CN CY DE DK ES FI FR GB GR IE IT KR LU MC NL PT SE US

International class (IPC 8–9): A61G3/00 B60N2/06 B60N2/12 B60N2/14 B60N2/24 (Advanced/Invention); A61G3/00 B60N2/12 (Advanced/Non–invention)

International class (IPC 1–7): A61G3/00 B60N2/02 B60N2/12 B60N2/14 B60N2/24

CPC: B60N2/062 B60N2/14 B60N2/146 B60N2/245

European class: B60N2/06C B60N2/14 B60N2/14C B60N2/24C

US class: 296/65.07 296/65.11 296/65.110P 296/65.12 297/344.21

Classification Explorer

Cited documents: WO9843849 A1, WO9318318 A1, US6024398 A, US5890764 A, US5769480 A, US5720462 A, US5651576 A, US5636884 A, US5524952 A, US5466111 A, US5149113 A, US5094420 A, US4989888 A, US4733903 A, US4483653 A, US2822858 A, US2587679 A, US2290464 A, JP9183325 A2, JP9086233 A2, JP9048271 A2, JP8300988

A2, JP7323767 A2, JP7004149 A2, JP63176752 A2, JP6262971 A2, JP62295660 A2, JP62283027 A2, JP62173343 A2, JP62076036 A2, JP62043330 A2, JP61057047 U1, JP6063426 A2, JP6027298 A2, JP60092752 A2, JP6000895 A2, JP58164825 U1, JP58164825 A2, JP57022925 A2, JP57022922 A2, JP5305112 A2, JP53019954 A2, JP5093966 A2, JP5056581 A2, JP5040027 A2, JP5028740 A2, JP5005551 A2, JP3071932 U1, JP3071932 A2, JP1266031 A2, JP1127852 A2, FR2495451 A1, EP0656277 A1, DE2655916 A1, AU5612490 A1, AU2992592 A1,

Forward Citations: WO16134262, WO15184267, WO15066683, WO14210318, WO09065885, WO06120267, USD678355, USD670745, USD667851, USD664998, US9783081, US9744881, US9714862, US9714095, US9688173, US9669738, US9663001, US9610864, US9592914, US9579995, US9566886, US9527409, US9493242, US9428276, US9415703, US9415702, US9403448, US9283871, US9266447, US9227529, US9221362, US9211812, US9120405, US9057221, US9010861, US8998335, US8985263, US8967578, US8944201, US8936295, US8765095, US8596720, US8585146, US8544809, US8524624, US8459742, US8408651, US8220856, US8042855, US7866723, US7850242, US7789447, US7665703, US7399035, US7350866, US7334829, US7083214, US6981746, US6691970, US6622982, US6582181, US6572172, US6557919, US6543848, US6416272, US2017001540, US2016325644, US2016264024, US2016016489, US2015137572, US2015008714, US2015008713, US2014167472, US2013161990, US2013127221, US2013113258, US2011121603, US2011018324, US2010164267, US2009326177, US2009091172, US2008224522, US2008111364, US2007284905, US2007252424, US2007221429, US2006255640, US2006220411, US2006152052, US2005285007, US2005275259, US2005179302, JP6104937, JP4214650, JP4203891, JP2015503480, JP2009227049, JP2005138799, JP2001219770, FR2920011, FR2881692, FR2868365, FR2851207, FR2851206, EP1736356, EP1736356, EP1367474, EP1201489, EP0985576, EP0808740, EP0808740, DE102013110448, DE102013110445, DE102013110416, DE102012205536, DE102011087175, DE102007003286, CN104093631, CN103863149, CN103863149, CN103732442, CN103732442, CN102862499, CN102862499, CN102363414,

Abstract:
Source: US2001038223A With respect to a rotating seat for a vehicle, for example, for the elderly or the handicapped, the known art requires two operations of moving a seat body forward and rotating it to a door opening, and is thus poor in usability. Further, if the seat is positioned to the front such that the seat can be rotated at that position, the space close to occupant's feet is sacrificed. It is, accordingly, an object of the present invention to provide a rotating vehicle seat having excellent usability without sacrificing the space close to occupant's feet. A rotating vehicle seat of the present invention includes a rotating support base 10 for rotatably supporting a seat body 2, a longitudinal support base for supporting and moving the rotating support base in a longitudinal direction of a vehicle, and coupling means 6, 38 disposed between the seat body 2 and the longitudinal support base for coupling the rotational movement and the longitudinal movement of the seat body.

26) Family number: 34707591 (US2001017477A) © PatBase

Title: EASY EJECTOR SEAT WITH SKELETAL CRASH SAFETY BEAM

Priority:

CN201080006263 20100128 CN201180058999 20110906 EP20020076388 20020402
EP19980948260 19980917 EP20000203896 20001107 JP20080545860 20061215
JP20120178675 20061215 JP20150042578 20150304 JP20080545860T 20061215
JP20110547976T 20100128 JP20100539946T 20090121 JP20160077926 20160408
JP20150042578 20061215 JP20130527067T 20110906 US20000195298P 20000410
US20000226570P 20000821 US20010338466P 20011203 US20010332419P 20011114
US20010286629P 20010426 US20010282105P 20010409 US20010280470P 20010402
US20010779591 20010209 US20010779592 20010209 US20010779593 20010209
US19970936626 19970924 US19990435830 19991108 US19990404475 19990924
JP20160169243 20160831 JP20160146641 20160726 US20010286629P 20010406
US20020109674 20020204 US20030681304 20031009 US20020109674P 20020401
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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class(IPC 8–9)**:** A47C7/14 A47C7/50 A47C7/62 A61G5/04 B01J8/02 B32B38/04 B60F3/00 B60N2/005 B60N2/01 B60N2/02 B60N2/06 B60N2/22 B60N2/24 B60N2/26 B60N2/28 B60N2/34 B60N2/42 B60N2/427 B60N2/44 B60N2/48 B60N2/50 B60N2/64 B60N2/66 B60N2/68 B60N2/70 B60Q1/00 B60R19/20 B60R21/00 B60R21/01 B60R21/02 B60R21/10 B60R21/16 B60R21/18 B60R21/207 B60R21/22 B60R21/233 B60R21/26 B60R21/276 B60R21/34 B60R22/10 B60R22/12 B60R22/18 B60R22/28 B60R27/00 B60R7/00 B60R99/00 B61D1/06 B61D1/08 B62B7/06 B62D21/15 B62D25/20 B62D61/12 B64C25/00 B64D11/06 B64D25/00 B64D25/04 C07D C07D311/26 C07D405/10 C07D407/10 G02B27/01 G02B27/02 G06F13/00 G06F3/01 G06F3/048 G06F3/0481 G06F3/0484 G06T15/20 G06T19/00 G08G1/16 G09G5/00 H04L29/06 H04N13/02 H04N13/04 H04N5/232 H04N7/18 H04R1/08 (Advanced/Invention);
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International class(IPC 1–7)**:** A47C4/54 B01J8/02 B60J7/00 B60N2/00 B60N2/02 B60N2/06 B60N2/06 B60N2/24 B60N2/26 B60N2/42 B60R19/20 B60R21/00 B60R21/01 B60R21/02 B60R21/32 B60R22/00 B60R27/00 B60R27/00 B62D21/15 B62D25/20 B62D27/00

CPC: B60N2/2893 B60N2/42709 B60N2/4882 B60N2/4885 B60R19/42 B64C1/062 B64C25/00 B64C2025/325 B64D25/00 Y10S297/04 A61G3/0808 A61G5/04 B62D21/152 A61G2203/723 A61G2203/36 B60R21/23138 A61G3/02 A61G3/06 B60N2/067 B60R21/02 B60R2021/0004 B60R2021/022 B60N2/06 B60N2/062 B60N2/245 B60N2/4214 B60N2/4279 B60R19/205 B60R2021/0006 A63F2300/8082 B60N2/26 B60N2/2809 B60N2/2824 B60N2/2833 B60N2/2869 B60N2/482 Y10T156/1057 G02B27/017 G02B2027/0138 G02B2027/0178 G06F3/04842 G06T15/205 G06T19/003 H04N5/23238 H04N7/183 H04N7/185 H04N13/0217 H04N13/0221 H04N13/0242 H04N13/044 B60N2/2812 B60N2/2821 B60N2/2839 B60N2/2845 B60N2/2848 B60N2/286 B60N2/2863 B60N2/2872 B60N2/2875 B60N2/2881 B60N2/2884 B60N2/2887 H04R1/08 G06F3/013 G06F3/04815 B62B7/06 B64D11/0627 B64D11/003 G02B27/22 G06F3/011 B60N2/4221 B60N2/4228 B60N2/4235 B60N2/64 B60N2/68 B60N2/7094 B60R2021/0039

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European class: A61G5/04 B60N2/005 B60N2/01 B60N2/06 B60N2/06C B60N2/06S B60N2/24C B60N2/26 B60N2/26B B60N2/28B2 B60N2/28B2T B60N2/28B4 B60N2/28C B60N2/28C2 B60N2/28D2 B60N2/28F B60N2/28G2 B60N2/28G4 B60N2/28H B60N2/28P2 B60N2/28P4 B60N2/28R B60N2/28S B60N2/28T B60N2/28U B60N2/28W B60N2/28Y B60N2/28Y4 B60N2/427D B60N2/427R2 B60N2/427T4 B60N2/42D2 B60N2/42D2F B60N2/42D4 B60N2/48C2B6 B60N2/48S B60N2/48W B60N2/64 B60N2/66 B60N2/68 B60N2/70Y B60R19/20C B60R21/02 B60R21/16B2L B60R21/18 B60R21/231L B62D21/15A B62D21/15B B64C1/06F2 B64C25/00 B64D11/06 B64D25/00 G06F3/01B4 K61G3/02 K61G3/06 K61G3/08 K61G5/10H K63F300/80V L60R19/20C L60R19/42 L60R21/00A1 L60R21/00A2 L60R21/00P2 L60R21/02A3 L60R21/231L L64C25/32A L64D11/06A10 L64D11/06A38 L64D11/06A8

US class: 1/1 156/253 156/253S 180/209 180/271 180/282 244/118.6 280/250.1 280/38 280/728.1 280/728.100S 280/730.1 280/730.100P 280/730.2 280/735 280/735S 280/736 280/748 280/748S 280/784 280/805 296/187.03 296/187.12 296/187.120P 296/188 296/189 296/190.04 296/205 296/26.08 296/26.080P 296/65.04 296/65.11 296/65.12 296/68.1 296/68.100P 297/183.6 297/216.1 297/216.100P 297/216.11 297/216.110P 297/216.12 297/216.19 297/217.3 297/232 297/250.1 297/256.13 297/284.1 297/284.100S 297/284.2 297/284.200S 297/284.3 297/284.6 297/284.600P 297/284.9 297/344.1 297/452.34 297/464 297/464S 297/DIG.4 340/425.5 340/457.1 340/461 340/686.1 340/686.2 345/156 345/8 5/632 5/633

Classification Explorer

Cited documents: WO9535226 A1, WO5810427, WO5725265, WO5716094, WO5671968, WO5660428, WO5464266, WO5435618, WO5213300, WO5131703, WO5000509, WO4995659, WO4815777, WO4533172, WO4512604, WO3981520, WO3961805, WO3944277, WO3822076, WO3071407, WO2873122, WO2777531, WO2758872, WO2753947, WO2710222, WO10087965 A2, WO09079668 A2, WO08092382 A1, WO08000378 A2, WO03018352 A1, WO02072384 A1, US9063633 BB, US8531449 BB, US8519824 BA, US8497816 BB, US8378924 BB, US8369630 BB, US8348337 BB, US8328275 BB, US8317224 BB, US8251444 BB, US8226162 BB, US8205833 BB, US8138908 BB, US8118365 BB, US8115769 BA, US7990394 BB, US7988393 BB, US7984947 BB, US7967376 BB, US7909402 BB, US7866723 BB, US7806221 BB, US7786891 BB, US7780230 BB, US7755602 BB, US7753442 BB, US7744154 BB, US7717798 BB, US7717506 BB, US7712052 BB, US7688346 BB, US7658444 BB, US7654613 BB, US7654602 BB, US7607697 BB, US7559834 BA, US7467824 BB, US7448575 BB, US7387327 BB, US7293828 BB, US7273252 BB, US7270374 BB, US7270373 BB, US7246854 BB, US7240943 BB, US7234771 BB, US7232182 BB, US7232001 BB, US7219958 BB, US7175221 BB, US7159923 BB, US7154416 BA, US7150442 BB, US7149530 BA, US7140680 BB, US7125079 BA, US7124851 BB, US7100116 BA, US7091928 BB, US7086695 BB, US7068624 BA, US7055904 BB, US7039521 BB, US7036848 BB, US7029069 BB, US7021655 BB, US6869132 BB, US6839880 BA, US6774869 BB, US6752454 BB, US6735517 BB, US6729630 BB, US6727865 BA, US6682143 BB, US6672666 BB, US6665003 BA, US6648416 BB, US6634708 BB, US6609754 BB, US6609749 BA, US6592166 BB, US6589143 BB, US6572189 BA, US6543847 BB, US6542081 BB, US6535114 BA, US6527339 BB, US6520579 BB, US6513870 BA, US6494536 BB, US6439660 BA, US6416272 BA, US6402237 BA, US6394535 BA, US6394241 BA, US6386611 BA, US6359603 BA, US6356272 BA, US6346938 BA, US6337683 BA, US6322091 BA, US6311112 BA, US6302439 BA, US6299199 BA, US6290299 BA, US6271842 BA, US6260913 BA, US6241314 BA, US6237991 BA, US6237872 BA, US6215498 BA, US6209909 BA, US6206474 BA, US6206466 BA, US6206461 BA, US6184847 BA, US6182287 BA, US6182287 B1, US6172601 BA, US6172601 B1, US6158767 A, US6154211 A, US6152400 A, US6142542 A, US6139100 A, US6123355 A, US6113175 A, US6109689 A, US6097393 A, US6059354 A, US6059311 A, US6056336 A, US6056316 A, US6056239 A, US6038495 A, US60367644, US6034692 A, US60338466, US60332419, US60286629, US6028584 A, US60282105, US60280470, US6027159 A, US6024398 A, US6023276 A, US60226570, US60195298, US6000659 A, US5947543 A, US5924377 A, US5917495 A, US5913536 A, US5908219 A, US5902010 A, US5899949 A, US5884967 A, US5884929 A, US5865462 A, US5857832 A, US5842737 A, US5812224 A, US5810427 A, US5788183 A, US5784836 A, US5784097 A, US5769480 A, US5769360 A, US5748865 A, US5746467 A, US5746465 A, US5738378 A, US5734421 A, US5725265 A, US5722719 A, US5722617 A, US5717414 A, US5716094 A, US5716026 A, US5696892 A, US5685603 A, US5671968 A, US5664830 A, US5660428 A, US5623587 A, US5618059 A, US5599042 A, US5590268 A, US5556169 A, US5551751 A, US5538322 A, US5531470 A, US5528735 A, US5492363 A, US5476309 A, US5474353 A,

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Forward Citations: WO13143747, WO13115931, WO13012890, WO12094419, WO11044435, WO10087965, WO09080193, WO09079668, WO09079668, WO08129327, WO08031605, USD793787, USD784749, USD782859, USD782241, USD779255, USD779254, USD779253, USD779252, USD779251, USD779250, USD779248, USD660605, USD543135, US9797128, US9797127, US9783310, US9776588, US9776535, US9749618,

US9725154, US9676258, US9669739, US9668580, US9534373, US9534372, US9504325, US9486081, US9469183, US9452666, US9428088, US9380976, US9365139, US9265458, US9254042, US9248762, US9240014, US9238174, US9211820, US9186290, US9144317, US9119473, US9081414, US9061611, US8967726, US8939507, US8939465, US8905478, US8844968, US8797261, US8763954, US8740303, US8690237, US8646208, US8634852, US8573640, US8564533, US8544952, US8540007, US8500196, US8414073, US8393678, US8393674, US8370873, US8360368, US8357023, US8356687, US8348337, US8308522, US8282172, US8282169, US8251425, US8172027, US8156995, US8112178, US8096613, US8052500, US8052210, US8002604, US7992936, US7926879, US7918489, US7887116, US7883392, US7815482, US7806221, US7784871, US7721837, US7703849, US7662013, US7640090, US7614686, US7494397, US7481486, US7467984, US7458637, US7413242, US7413240, US7396065, US7374223, US7328938, US7273252, US7246845, US7237841, US6986549, US2016193903, US2016185442, US2016046251, US2016027209, US2015336482, US2015286278, US2015066307, US2015054323, US2014346826, US2014332302, US2014319275, US2014265472, US2014246891, US2014167464, US2014110983, US2014077482, US2013221724, US2013210329, US2013175838, US2013154318, US2013026802, US2012303211, US2012126604, US2012013157, US2012007408, US2011227383, US2011227376, US2011225611, US2011175423, US2011169310, US2011102237, US2011012406, US2011011664, US2010308175, US2010295342, US2010289308, US2010283282, US2010282902, US2010263803, US2010060552, US2010025525, US2010019555, US2009256404, US2009212590, US2009177322, US2009167072, US2009162175, US2009117812, US2009104836, US2009102268, US2009021050, US2008299867, US2008217970, US2008157567, US2008150337, US2007272794, US2007221781, US2007207020, US2007194607, US2007181742, US2007164583, US2007164150, US2007164149, US2007164148, US2007114811, US2006255635, US2006202513, US2006169517, US2005161980, US2005161968, US2005161967, US2005134091, US2005046235, US2004183348, RU2527615, RU2527603, KR101320477, JP2015521558, JP2015511559, JP2014181036, EP3165459, EP2825422, EP1857320, EP1813455, EP1813455, EP1325836, DE102012208725, DE102010018689, DE102008017199, DE10143881, DE10143881, CN106004573, CN106004572, CN106004558, CN106004553, CN106004549, CN105946666, CN105946644, CN105946635, CN105936227, CN105922910, CN105922905, CN105922904, CN104097776, CN103717492, CN103370258, CN103370258,

Abstract:
Source: US2001017477A An arrangement in passenger vehicles, that diverts the impact energy in impacts away from the passengers to the remaining mass of the vehicle thereby protecting the passengers, and in the same arrangement provides utilitarian access to the vehicle, such utilitarian access making it possible to both install multi−element contoured surround seats for passengers and the driver, and also a safety device for head−on collision protection that obviates the need for conventional seat belts and front impact airbags. An indo−skeletal structural arrangement proposed for the vehicle, provides further benefits by targeting the strength of the vehicle to protect passengers while minimizing other massive elements in the vehicle.

0) WO9924684A1 – SHEET ROOF STRUCTURE STRUCTURE DE TOITURE EN T...

27) Family number: 11355051 (WO9924684A1) © PatBase

Title: SHEET ROOF STRUCTURE

Priority: WO1997JP04075 19971107

Family:

Publication number	Publication date	Application number	Application date
AU199922465 A1	19990531	AU19990022465	19971107
FR2770864 A1	19990514	FR19980001284	19980204
GR980100408 A	19990730	GR19980100408	19981105
TW374812 B	19991121	TW19970116795	19971111
WO9924684 A1	19990520	WO1997JP04075	19971107

Probable Assignee: WORLD FUSION LIMITED

Assignee(s):(std)**:** SUGIURA TSUKASA ; TSUKASA SUGIURA ; WORLD FUSION LTD ; WORLD FUSION LIMITED

Assignee(s): WORLD FUSION LIMITEDHK

Inventor(s):(std)**:** SUGIURA TSUKASA ; TSUKASA SUGIURA

Designated states: AU CN ES KR MX PT SG TR US

International class (IPC 8–9): E04B7/14 E04B9/30 E04D1/02 E04D1/34 E04H15/20 E04H15/22 (Advanced/Invention); E04B7/14 E04B9/30 E04H15/20 (Core/Invention); E04D1/02 E04D1/34 (Core/Non–invention)

International class (IPC 1–7): E04B7/00 E04B9/04 E04D1/02 E04D1/34 E04H15/20

CPC: E04B7/14 E04B9/303 E04H15/20 E04H15/22 E04H2015/201

European class: E04B7/14 E04B9/30B E04H15/20 E04H15/22 P04H15/20B

Classification Explorer

Cited documents: JPH01150770 U, JP9217524 A2, JP1150770 U1, FR2305553 A1, FR2230814 A1,

Forward Citations: WO05017291, US9297178, US8863443, GB2421742, GB2421742, FR2957961, EP2369076, CN102011498,

Abstract:
A roof structure of a building comprising a planar ceiling sheet (18) constituting the ceiling of the building (2) and a mountain–shaped roof sheet (20) disposed above the ceiling sheet and constituting the roof of the building. The ceiling sheet and the roof sheet are made of a gas–impermeable sheet and their peripheral portions are fixed to the upper edge peripheral portion of a building main body (2A). The roof sheet is supported in a mountain shape by support members in such a manner as to define a sealed space between it and the ceiling sheet and this sealed space is always kept at a positive or negative pressure relative to the atmosphere. Further, a core material (50) into which a gas is charged is disposed at necessary positions of the inner surface of the roof sheet. Therefore, the structure is simple and has an excellent workability and the roof is light in weight, so that a building having a high resistance to earthquakes can be obtained.

0) US6560344B – MINIATURE SURFACE MOUNTED DIRECTIONAL MICROPHON...

28) Family number: 30081885 (US6560344B) © PatBase

Title: Miniature surface mounted directional microphone assembly

Priority: US19980106480P 19981030 US19990232391 19990115

Family:

Publication number	Publication date	Application number	Application date
US6560344 BA	20030506	US19990232391	19990115
WO0027167 A1	20000511	WO1999US25403	19991029

Probable Assignee: ETYMOTIC RESEARCH INC

Assignee(s):(std)**:** ETYMOTIC RES INC

Assignee(s): ETYMOTIC RESEARCH INC

Inventor(s):(std)**:** DRAMBAREAN VIOREL ; JULSTROM STEPHEN D ; SCHULEIN ROBERT B

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE

International class (IPC 8–9)**:** H04R1/40 (Advanced/Invention)

International class (IPC 1–7)**:** H04R25/00

CPC: H04R1/406 H04R2499/13

European class: H04R1/40C T04R499/13

US class: 381/356 381/358 381/361

Classification Explorer

Cited documents: US5878147 A, US5799096 A, US5216711 A, US4051330 A, US3876843 A,

Forward Citations: USD677438, USD652823, USD582898, USD576612, US9370041, US9318017, US8897708, US8699739, US8634888, US8494449, US8380251, US8331601, US8224012, US8200214, US7970446, US7349722, US7346374, US7136494, US7130431, US7106876, US7106876, US2011051972, US2011019857, US2007058821, US2007047753, US2007003095, US2004170293, US2004076305, US2004048622, US2004028239,

Abstract:
Source: US6560344B The present invention relates to a motor vehicle mounted directional microphone assembly for use in hands–free cellular telecommunications. The microphone assembly is comprised of a case and a removable directional microphone module. The case is adapted to mount and lock the module in a plurality of different orientations, thereby enabling the assembly to accommodate various mounting arrangements within the vehicle. The module is releasable, however, from its locked position to permit re–orientation of the microphone with respect to the case, if desired. The module is also completely removable from the case to permit mounting of the module within the vehicle in mounting arrangements independent of the case.

0) EP1050646A1 – LOCKING DEVICE FOR A MOTOR VEHICLE SIDE DOOR AN...

29) Family number: 13018798 (EP1050646A1) © PatBase

Title: LOCKING DEVICE FOR A MOTOR VEHICLE SIDE DOOR AND VEHICLE EQUIPPED WITH SUCH A DEVICE

Priority: FR19990005636 19990504

Family:

Publication number	Publication date	Application number	Application date
DE60018324 D1	20050407	DE20006018324	20000427
DE60018324 T2	20060112	DE20006018324T	20000427
EP1050646 A1	20001108	EP20000401157	20000427
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ES2238977 T3	20050916	ES20000401157T	20000427
FR2793275 A1	20001110	FR19990005636	19990504
FR2793275 B1	20010629	FR19990005636	19990504

Probable Assignee: VALEO SECURITE HABITACLE

Assignee(s):(std)**:** VALEO SECURITE HABITACLE ; VALEO SECURITE HABITACLE SAS

Assignee(s): VALEO SECURITE HABITACLE S A S ; VALEO SECURITE HABITACLE S A S CRETEIL

Inventor(s):(std)**:** MOULY PIERRE HENRI ; HOCHART JEAN PHILIPPE

Inventor(s): JEAN PHILIPPE HOCHART ; PIERRE HENRI MOULY

Agent(s): VALEO SECURITE HABITACLE

Designated states: DE ES GB IT

International class (IPC 8–9)**:** E05B65/20 E05B65/22 E05B65/32 (Advanced/Invention); E05B53/00 E05B65/22 E05B65/32 (Advanced/Non–invention); E05B65/20 E05B65/22 E05B65/32 (Core/Invention); E05B53/00 E05B65/22 E05B65/32 (Core/Non–invention)

International class (IPC 1–7)**:** B60J5/04 E05B65/22 E05B65/32

CPC: E05B79/20 E05B83/38 E05B85/22 E05B85/243

European class: E05B83/38 P05B53/00D2 P05B85/22 P05B85/243

Classification Explorer

Cited documents: US4662109 A, US3596960 A, GB2105777 A1, FR2757558 A1, DE9302707 U,

Forward Citations: FR2941988, EP1849940, EP1849940, DE102010035006, DE102004041742, CN102619412,

Abstract:
The catch for the side door of a car consists of a rotating locking plate (12) and a clip (15) which locks it over a pin (11 fixed to the car bodywork. the catch is opened by a door handle (18) connected by a cable (17) to a pin (15b) on the clip. A loc button (6) mounted in a reinforced section (24) of the door is connected by a rod (22) to a control lever (20). This cooperates the outer surface (26) of the locking plate and keeps the button down when the locking plate is freed from the locking pin (11)

0) US2002125736A – SEATING, HANDRAILS AND CANOPY FOR ROOFTOP DECK ...

30) Family number: 28220472 (US2002125736A) © PatBase

Title: Seating, handrails and canopy for rooftop deck vehicles

Priority: US19970929691 19970915 US20000491764 20000127 US20010766966 20010123 US20050031263 20050106 US20020177314 20020624 US20010766996 20010123 US20020142403 20020510 US20030712227 20031114

Family:

Publication number	Publication date	Application number	Application date
US2002125736 AA	20020912	US20020142403	20020510
US2002153745 AA	20021024	US20020177314	20020624
US6237988 BA	20010529	US20000491764	20000127
US6425625 BA	20020730	US20010766996	20010123
US6679543 BB	20040120	US20020177314	20020624
US6840825 BA	20050111	US20030712227	20031114
US7338335 BA	20080304	US20050031263	20050106

Probable Assignee: MESSANO FRANK

Assignee(s):(std)**:** MESSANO FRANK

Assignee(s): WELLS FARGO BANK MINNESOTA NATIONAL ASSOCIATION AS ; JPMORGAN CHASE BANK ; JPMORGAN CHASE BANK AS COLLATERAL AGENT ; JPMORGAN CHASE BANK NA

Inventor(s):(std)**:** MESSANO FRANK

International class (IPC 8–9)**:** B60F3/00 B60K1/01 B60P3/34 (Advanced/Invention); B60F3/00 (Core/Invention)

International class (IPC 1–7)**:** B60F3/00 B60P3/32 B60P3/34

CPC: B60F3/0007 B60F3/0038 B60F3/0092 Y10S903/903 B60G13/14 B60G2300/60 B60G2500/30 B60G2800/914 B60K6/32 B60K6/46 B60L8/00 B60L8/003 B60L11/005 B60L11/123 B60L11/1877 B60L11/1881 B60L11/1887 B60L11/1894 B60L2200/18 B60L2200/28 B60L2200/36 B60L2220/20 B60L2220/44 B60L2260/28 B60P3/34 B60W10/08 B60W20/00 B60W2300/14 B60W2300/145 B60W2300/18 B60W2300/185 B62D59/04 Y02T10/6217 Y02T10/7005 Y02T10/7022 Y02T10/705 Y02T10/7077 Y02T10/7083 Y02T90/34 B60W20/15 B60K6/26 B60K6/28 B60W10/06 B62D35/001 Y02T10/90

European class: B60F3/00B B60F3/00C2 B60F3/00D5 B60G13/14 B60K6/32 B60K6/46 B60L11/00B2 B60L11/12D B60L11/18M36 B60L11/18R B60L11/18R4 B60L11/18R8F B60L8/00 B60L8/00B B60P3/34 B60W10/08 B62D35/00B B62D59/04 H01L29/78B2B2 L60G300/60 L60G500/30 L60G800/914 L60L200/18 L60L200/28 L60L200/36 L60L220/20 L60L220/44 L60L260/28 L60W20/00 L60W300/14 L60W300/14A L60W300/18 L60W300/18A L60W300/19 T01L29/423D2B4B Y02T10/62F2 Y02T10/70B Y02T10/70D Y02T10/70H4 Y02T10/70J2 Y02T10/70J2B Y02T90/34

US class: 114/290 114/61.15 114/61.16 180/65.22 180/65.4 180/65.5 180/65.8 257/E29.04 257/E29.128 257/E29.131 257/E29.133 257/E29.136 257/E29.26 296/156 296/156P 296/164 296/165 296/165P 296/175 296/210 296/26.06 296/26.09 296/26.14 440/12.5 440/12.52 52/79.5 903/903

Classification Explorer

Cited documents: USD362417 S1, USD149981 S1, US6722458 BB, US6679543 BB, US6527078 BA, US6425625 BA, US6394924 BA, US6394209 BA, US6378638 BA, US6376927 BA, US6364806 BA, US6325437 BB, US6293612 BA, US6237988 BA, US6237926 BA, US6220654 BA, US6209672 BA, US6173482 BA, US6159058 A, US6152475 A, US6102419 A, US6098346 A, US6059059 A, US5934728 A, US5908077 A, US5847520 A, US5833023 A, US5800002 A, US5690378 A, US5687669 A, US5655435 A, US5617805 A, US5586802 A, US5495912 A, US5492189 A, US5445236 A, US5433578 A, US5429405 A, US5398508 A, US5374094 A, US5314230 A, US5295430 A, US5243924 A, US5240278 A, US5218792 A, US5118131 A, US5078441 A, US4981319 A, US4881752 A, US4837914 A, US4716850 A, US4681083 A, US4666204 A, US4634142 A, US4598785 A, US4494937 A, US4465316 A, US4451058 A, US4392393

A, US4371056 A, US4358914 A, US4181188 A, US4103958 A, US4099589 A, US3981259 A, US3971455 A, US3960102 A, US3941074 A, US3877094 A, US3860982 A, US3841036 A, US3719383 A, US3608954 A, US3193851 A, US3161246 A, US3050330 A, US2581192 A, US2425948 A, US2235662 A, US2150615 A, US2132409 A, US2003104899 AA, US2003029651 AA, US2002175009 AA, US2002153745 AA, US1634932 A, US14657 A, US1034278 A, JP4103432 A2, JP404103432, GB2196583 A1, GB2168295 A1, GB2158295 A1, GB189614657 A, GB14657, FR962389 A, CA528037 A,

Forward Citations: WO16116655, WO16023640, WO15007932, WO14046904, WO13172845, WO13076607, WO13036940, WO12167518, WO11125084, WO11056816, WO10085159, WO10070641, WO10012369, WO09149041, WO08086087, WO07059540, WO07059540, WO06132771, WO05115775, USD650722, US9738210, US9669690, US9604564, US9604527, US9586458, US9579980, US9566854, US9561828, US9505317, US9481314, US9446703, US9440525, US9396462, US9381795, US9321352, US9193417, US9090253, US9079466, US9050923, US9030153, US8997901, US8986056, US8965613, US8959843, US8888652, US8852052, US8852051, US8845483, US8844212, US8834318, US8790215, US8781664, US8752499, US8706359, US8695739, US8691416, US8583551, US8555558, US8528680, US8454399, US8424287, US8418643, US8376070, US8347999, US8342279, US8337265, US8315930, US8221174, US8172265, US8141667, US8141666, US8120310, US7870830, US7849945, US7841644, US7814924, US7743859, US7674147, US7338335, US7234747, US7211983, US7150483, US7144058, US7052065, US7052064, US6981728, US6976721, US6857918, US6840825, US6729678, US6729677, US6425625, US2016318421, US2016090134, US2015246593, US2015175013, US2015069782, US2014116077, US2014025273, US2013231808, US2013081565, US2012247084, US2012220176, US2012144762, US2012138375, US2012136522, US2011297459, US2011247885, US2011114398, US2011105917, US2011101719, US2011100287, US2011094807, US2011017532, US2010327600, US2010216357, US2010187031, US2010161518, US2010161517, US2010161483, US2010161469, US2010144220, US2010141201, US2010096200, US2010065344, US2010051364, US2009308670, US2009293790, US2009061702, US2008050991, US2008026650, US2007261896, US2007199748, US2007193795, US2006272896, US2006186840, US2006082178, US2004256874, US2004066060, US2003187463, RU2530208, RU2468932, KR101028825, ITRM20100161, ITMI20112109, GB2429437, GB2429437, GB2414439, FR3045517, FR2927856, ES2536151, ES2401188, EP2842814, EP2382610, CN104924964, CN103906679, CN102822006, CN101817342, AU2009202083,

Abstract:
Source: US2002125736A A vehicle rooftop deck system of affixed seating, handrails, and deck canopy−roof which raise for rooftop occupancy and lower for travel on recreational vehicles, amphibious vehicles, and watercraft.

0) ES2156801A – ADJUSTABLE SHUTTERING PLATFORM FOR LOCATION ARO...

31) Family number: 15493155 (ES2156801A) © PatBase

Title: Adjustable shuttering platform for location around a pillar which serves as a support for prefabricated beams.

Priority: ES19980002571 19981210

Family:

Publication number	Publication date	Application number	Application date
ES2156801 AA	20010716	ES19980002571	19981210
ES2156801 BA	20020201	ES19980002571	19981210

Probable Assignee: JIMENEZ SANCHEZ JAIME ENRIQUE

Assignee(s):(std)**:** JIMENEZ SANCHEZ JAIME ENRIQUE

Inventor(s):(std)**:** JIMENEZ SANCHEZ JAIME ENRIQUE

International class (IPC 8–9)**:** E04B5/26 E04G11/48 E04G17/16 (Advanced/Invention); E04B5/17 E04G11/00 E04G17/16 (Core/Invention)

International class (IPC 1–7)**:** E04B5/26 E04G11/48 E04G17/16

Classification Explorer

Cited documents: WO9709494, FR2568909, FR2491977,

Forward Citations: ES2304071, ES2183729,

Abstract:
Adjustable shuttering platform for location around a pillar which serves as a support for prefabricated beams which, by additional steel being installed during operations and the subsequent concreting, form the rigid node of a reinforced concrete structure for building. It is formed by two angle irons set on opposite sides of the pillar which are connected to each other by two threaded bars of the type of construction, and the laterals closing by two panels supported on the respective housings or seats which are provided on the two angle irons.

0) US2003107237A – DOOR ARRANGEMENT FOR MOTOR VEHICLES

32) Family number: 28913057 (US2003107237A) © PatBase

Title: DOOR ARRANGEMENT FOR MOTOR VEHICLES

Priority: DE20011055220 20011109

Family:

Publication number	Publication date	Application number	Application date
DE10155220 C1	20030213	DE20011055220	20011109
EP1310621 A2	20030514	EP20020023101	20021015
EP1310621 A3	20061220	EP20020023101	20021015
JP2003211962 A2	20030730	JP20020326082	20021108
JP3663402 B2	20050622	JP20020326082	20021108
US2003107237 AA	20030612	US20020290446	20021108

Probable Assignee: DAIMLERCHRYSLER AG

Assignee(s):(std)**:** DAIMLER CHRYSLER AG

Assignee(s): DAIMLERCHRYSLER AG ; DYRBALLA MICHAEL ; WENDLER ROLAND ; BRODT MARTIN ; DAIMLER AG

Inventor(s):(std)**:** BRODT MARTIN ; DYRBALLA MICHAEL ; WENDLER ROLAND

Agent(s): AKAZAWA HIDEO

Designated states: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

International class (IPC 8–9)**:** B60J5/04 E05B65/20 E05D3/06 E05F15/04 E05F17/00 (Advanced/Invention); B60J5/04 E05B65/20 E05D3/00 E05F15/00 E05F17/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B60J5/04 E05B65/20 E05D15/58 E05D3/06 E05F17/00

CPC: E05D3/127 B60J5/0479 E05Y2900/531

European class: B60J5/04H5B E05D3/06C4B E05D3/12V2 E05F15/04B P05Y900/531

US class: 296/146.12 296/146.120P

Classification Explorer

Cited documents: US6305737 BA, JP5112130, JP05112130, FR2634426 A1, DE4403126 A1, DE19754417 C2, DE19754417 A1,

Forward Citations: US7000977, US6913308, US2012049579, US2007152473, US2005082871, KR101035119, GB2410980, GB2410980, EP2985161, DE10361831, DE10341420, DE10341420, DE102016013298, DE102004050229, CN105863418, CN102383683,

Abstract:
Source: US2003107237A A door arrangement for a motor vehicle has a pivotable door and at least one hinge via which the door is articulated on one of its narrow sides on bodywork. Movement of the door between its open and closed positions proceeds, under automatic control, about two axes of rotation running approximately parallel through the hinge. During opening of the door, in a first movement stage, the hinge–side end region of the door is guided in a pivoting/sliding manner out of the door opening and the lock–side end region of the door is guided in a pivoting/sliding manner by guide elements along the door opening into a release position. Thereafter, the axis of rotation moved together with the door is shifted out of the door opening, and the door can be pivoted exclusively about the shifted axis of rotation in a second movement stage.

0) US2003205918A – MODULAR VEHICULAR WINDOW SEAL ASSEMBLY

33) Family number: 29540950 (US2003205918A) © PatBase

Title: MODULAR VEHICULAR WINDOW SEAL ASSEMBLY

Priority: US20020136230 20020501 WO2003US13232 20030429

Family:

Publication number	Publication date	Application number	Application date
AU2003225204 AA	20031117	AU20030225204	20030429
DE60303445 D1	20060413	DE20036003445	20030429
EP1499512 A2	20050126	EP20030721920	20030429
EP1499512 B1	20060201	EP20030721920	20030429
US2003205918 AA	20031106	US20020136230	20020501
US6817651 BB	20041116	US20020136230	20020501
WO03093044 A2	20031113	WO2003US13232	20030429
WO03093044 A3	20040205	WO2003US13232	20030429

Probable Assignee: SCHLEGEL CORP

Assignee(s):(std)**:** CARVALHO DARREL B ; KONITSNEY WILLIAM J ; RIGBY JOHN A ; SCHLEGEL CORP ; ZWOLINSKI DAVID T

Assignee(s): SCHLEGEL CORP NEW YORK ; ROYAL BANK OF SCOTLAND PLC AS SECURITY AGENT ; ROYAL BANK OF SCOTLAND PLC SECURITY AGENT AS ; METZELER AUTOMOTIVE PROFILE SYSTEMS IOWA INC ; METZELER AUTOMOTIVE PROFILE SYSTEMS NORTH CAROLINA ; METZELER AUTOMOTIVE PROFILE SYSTEMS NORTH CAROLINA INC ; METZELER AUTOMOTIVE PROFILE SYSTEMS OKLAHOMA INC ; BANK OF AMERICA N A

Inventor(s):(std)**:** CARVALHO DARREL B ; KONITSNEY WILLIAM J ; RIGBY A JOHN ; RIGBY JOHN A ; ZWOLINSKI DAVID T ; ZWOLINSKI T ; RIGBY A ; KONITSNEY J ; CARVALHO B

Inventor(s): WILLIAM J KONITSNEY ; DARREL B CARVALHO ; DAVID T ZWOLINSKI ; JOHN A RIGBY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J10/00 B60J10/04 (Advanced/Invention); B60J10/00 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J10/00 B60J10/02 B60J10/04 B62D25/02

CPC: B60J10/78 B60J10/16 B60J10/235 B60J10/70 B60J10/75 B60J10/76

European class: B60J10/00C2 B60J10/00D3 B60J10/02 B60J10/04B B60J10/04D B60J10/04D3

US class: 296/146.15 296/146.2 296/203.03 296/203.030P

Classification Explorer

Cited documents: US6319344 BA, US6299235 BA, US6293616 BA, US6279987 BA, US6260905 BA, US6247746 BA, US6189198 BA, US6082048 A, US6070364 A, US6068719 A, US6023888 A, US5915780 A, US5853895 A, US5846463 A, US5779956 A, US5702148 A, US5566510 A, US5557890 A, US5538777 A, US5503700 A, US5396733 A, US5343609 A, US5317835 A, US5027556 A, US5010689 A, US5007202 A, US4800681 A, US4761916 A, US4357781 A, US4119325 A, JP61220919 A2, JP361220919, GB2302558 A1, GB2074639 A1, EP0587428 A1, EP0526327 A1, DE3821457 A1, DE19632843 C1,

Forward Citations: WO15120395, WO11068532, WO09150372, WO09150372, WO06055911, WO06055465, WO06055465, WO05103426, WO05037587, WO04108458, US9493061, US9475374, US9475372, US9132859, US9114693, US9061574, US9027284, US8978306, US8919846, US8661736, US8479449, US8408344, US8333423, US8328975, US8141297, US8128143, US8042859, US7980621, US7950719, US7950109, US7918492, US7896425, US7887118, US7874104, US7856759, US7798557,

US7763197, US7448670, US7356967, US2014109485, US2013313863, US2012274102, US2012167473, US2012144751, US2012060422, US2011239410, US2011126473, US2011109009, US2011030282, US2011010998, US2010300181, US2010295337, US2010171336, US2010127530, US2010001550, US2009174108, US2009121517, US2009072583, US2009072582, US2009070960, US2009064594, US2009051194, US2009038232, US2008282617, US2008238134, US2008191517, US2007169417, US2007101656, US2006152035, US2006103047, US2006005469, GB2421044, FR2932548, EP2463133, EP1862343, DE202010013082,

Abstract:
Source: US2003205918A A vehicle window seal assembly includes a division bar formed without structural metal and including one of an insert or an overlay layer of a relatively soft material. The division bar can be formed in an H configuration having an elastic hinge between a leg of the H profile and a cross piece. The division bar can also be formed to receive and engage the insert to locate sealing lips for contacting a moveable glass panel.

0) US2006250224A – MEANS OF TRANSPORT WITH A THREE–DIMENSIONAL DIS...

34) Family number: 30785060 (US2006250224A) © PatBase

Title: MEANS OF TRANSPORT WITH A THREE–DIMENSIONAL DISTANCE CAMERA AND METHOD FOR THE OPERATION THEREOF

Priority: DE20031003578 20030130 US20040543910 20040130 US20060543910 20060622 WO2004DE00140 20050722 US20100884944 20100917 WO2004DE000140 20040130 WO2004DE00140 20040130

Family:

Publication number	Publication date	Application number	Application date
BRPI0407036 A	20060117	BR2004PI07036	20040130
DE10303578 A1	20040819	DE20031003578	20030130
DE10303578 B4	20150813	DE20031003578	20030130
EP1595161 A2	20051116	EP20040706607	20040130
JP2006519427 T2	20060824	JP20060501480T	20040130
KR100935737 B1	20100106	KR20057013626	20040130
KR20050103204 A	20051027	KR20057013626	20040130
US2006250224 AA	20061109	US20040543910	20040130
US2011010041 AA	20110113	US20100884944	20100917
WO04068164 A2	20040812	WO2004DE000140	20040130
WO04068164 A3	20041202	WO2004DE000140	20040130

Probable Assignee: SCHEFENACKER VISION SYSTEMS GERMANY GMBH

Assignee(s):(std): SCHEFENACKER VISION SYSTEMS ; SCHEFENACKER VISION SYSTEMS GE ; STEFFEL HANS CLEMENS ; WAGNER DANIEL ; WAGNER DAG DR ; SMR PATENTS SARL ; SMR PATENTS S R L ; SMR PATENTS SRL

Assignee(s): DEUTSCHE BANK LUXEMBOURG SA ; VISIOCORP PATENTS SARL ; SCHEFENACKER VISION SYSTEMS GERMANY GMBH ; SCHEFENACKER VISION SYSTEMS GERMANY GMBH AND CO KG ; SMR PATENTS S A R L

Inventor(s):(std): SCHAEFFER HEINZ ERWIN ; STEFFEL HANS CLEMENS ; WAGNER DAG ; WAGNER DAG DR ; WAGNER DANIEL

Inventor(s): DANIEL WAGNER ; DR DAG WAGNER ; HANS CLEMENS STEFFEL

Agent(s): SHAMOTO ICHIO; CHIBA AKIO; MASUI CHUJI; KOBAYASHI YASUSHI; TOMITA HIROYUKI; MIYAMAE TORU; WARN HOFFMANN MILLER AND LALONE PC; REISING ETHINGTON PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60Q1/00 B60Q9/00 B60R1/00 B60R1/06 B60R1/08 B60R1/12 B60R21/00 B60W30/08 B60W50/08 B60W50/14 B62D1/04 G01S13/93 G06F7/00 G08G1/16 (Advanced/Invention); B60Q9/00 B60R1/00 B60R1/08 G01S7/26 (Advanced/Non–invention); B60Q1/00 B60R1/06 B60R1/12 B60R21/00 B62D1/04 G01S13/00 G08G1/16 (Core/Invention); G01S7/04 (Core/Non–invention)

International class (IPC 1–7): B60Q9/00 B60R1/00 B60R1/08 G01S13/93 G08G1/00 G08G1/16

CPC: G01S7/06 G01S13/931 G01S2013/9332 G01S2013/9342 G01S2013/9346 G01S2013/935 G01S2013/9357 G01S2013/9364 G01S2013/9367 G01S2013/9378 G01S2013/9385 G01S2013/9389 B60T2210/34 B60T2210/32

European class: G01S13/93C L60T210/32 L60T210/34 S01S13/93C10 S01S13/93C11 S01S13/93C13 S01S13/93C15 S01S13/93C16 S01S13/93C30B S01S13/93C30D S01S13/93C30E S01S13/93C6 S01S13/93C9 S01S7/06

US class: 340/435 340/435P 701/1 701/1S 701/29 701/31.4 701/31.400P

Classification Explorer

Cited documents: WO04021546 A2, US6226389 BA, US5940011 A, US5929786 A, US5905457 A, US2003085806 AA, US2002067287 AA, US2002005778 AA, US1999905457, EP0717290 A2, EP0717290 A1, EP0717290, EP0545437 B1, EP0443185 A2, EP0443185 A1, EP0443185, DE4410620 A1, DE4338244 C2, DE4005444 A1, DE3830790 A1, DE29518301 U1, DE2555429 A1, DE19904043 A1, DE19845568 A1, DE19842827 A1, DE19741631 A1, DE19537129 A1, DE10125426 A1, DE10026048 A1,

Forward Citations: WO15054225, WO06037687, WO06037687, WO05103757, US9796359, US9754489, US9736435, US9688246, US9676336, US9664530, US9659498, US9654740, US9643605, US9639688, US9612999, US9609289, US9583004, US9569970, US9569403, US9555803, US9552718, US9452735, US9440535, US9436880, US9428192, US9415804, US9415776, US9368031, US9368028, US9245254, US9191634, US9171217, US9168895, US9159236, US9141583, US9123248, US9107012, US9085262, US9079554, US9073429, US9064408, US9064152, US9064101, US9053096, US9008369, US9002536, US8993951, US8947221, US8934652, US8917169, US8849519, US8842176, US8818042, US8811638, US8788113, US8779911, US8743202, US8547249, US8537221, US8522320, US8489319, US8354932, US7957874, US7567687, US7504986, US7375620, US7245231, US2015097660, US2015054952, US2014093131, US2013335235, US2013201012, US2013142347, US2012268600, US2012200427, US2012143439, US2012065877, US2011157705, US2011098911, US2010033564, US2010030474, US2009167514, US2009153665, US2008234907, US2008201039, US2008199069, US2007132563, US2005258977, US2005231339, KR20130129591, KR20130121227, KR20130115510, KR101654252, KR101643197, KR101643194, KR101479126, KR101424390, KR101270602, KR100906672, JP4921373, JP2012210901, JP2008514908, JP2008033872, EP2505443, EP2187236, EP2062778, EP1736384, DE102014222627, DE102011015692, DE102010062994, DE102009052591, DE102008049824, DE102005029411, DE102005003786, DE102004052667, DE102004052667, DE102004041504, DE102004041504, CN104890571, CN103286097, AU2013200663, AU2012211407,

Abstract:
Source: US2006250224A A hazard detection system for vehicles with at least one side and rear area sensing device, area interpretation device, and driver reaction assistance, wherein the area sensing device detects objects in motion which are moving relative to the vehicle carrying the hazard detection system. The hazard detection system has two sensors oriented opposite to the direction of travel. It includes at least one analysis and interpretation unit per sensor to determine geometry data and motion data of the sensed object. In addition, it has at least one display unit per sensor. Moreover, it has at least one information, control, and/or regulating unit acting on the vehicle brake system, vehicle steering system, and/or other vehicle assemblies, wherein said unit is influenced by the analysis and interpretation units.

0) US2007262591A – LATCH SYSTEM

35) Family number: 36056523 (US2007262591A) © PatBase

Title: LATCH SYSTEM

Priority: GB20060004478 20060306 GB20060604478 20060306

Family:

Publication number	Publication date	Application number	Application date
CN101033667 A	20070912	CN200710079991	20070306
EP1832701 A1	20070912	EP20070250925	20070306
GB200604478 A0	20060412	GB20060004478	20060306
US2007262591 AA	20071115	US20070714076	20070305

Probable Assignee: MERITOR TECHNOLOGY INC

Assignee(s):(std)**:** MERITOR TECHNOLOGY INC ; SPURR NIGEL V ; WRIGHT STEPHEN J

Inventor(s):(std)**:** SPURR NIGEL V ; WRIGHT STEPHEN J ; WRIGHT STEPHEN J SPURR NIGEL V ; WRIGHT STEVEN JOHN

Inventor(s): SPURR NIGEL ; WRIGHT STEPHEN JOHN ; SPURR NIGEL VICTOR ; WRIGHT STEPHEN

Agent(s): CARLSON GASKEY AND OLDS PC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO SE SI SK TR YU

International class (IPC 8–9)**:** E05B53/00 E05B65/08 E05B65/12 E05B65/20 E05C1/06 E05C3/16 (Advanced/Invention); E05B53/00 E05B65/08 E05B65/12 E05B65/20 E05C1/00 E05C3/00 (Core/Invention)

CPC: E05B79/20 E05B83/40 E05B77/04 E05B63/0004 E05B63/0052 E05B83/36 E05B83/38 Y10T292/1047

European class: E05B53/00D2 E05B77/04 E05B83/36 P05B63/00A P05B63/00R P05B65/08 P05B83/38

US class: 292/216 292/216P

Classification Explorer

Cited documents: US3596960 A, US3206239 A, GB2393476 A1, EP1149968, DE9302707 U, DE4409596 A1, DE19732372 A1,

Forward Citations: US9638299, US8998275, US8091933, US2015354255, US2014203570, US2009267354, EP2165869, DE102008046003, CN102597398, CN102597398, CN102362080,

Abstract:
Source: US2007262591A A latch system for an aperture closure includes a latch, an auxiliary retention device remote from the latch, an engaging member remote from the auxiliary retention device and a transmission path operably connecting the engaging member with the auxiliary retention device. The latch system is arranged such that movement of the aperture closure from an open position to a closed position causes the latch to move to the closed position and causes movement of the engaging member to cause the transmission path to move the auxiliary retention device to a closed position.

0) US2008122250A – SEALING SYSTEM OF B–PILLARLESS REAR SLIDING DOO...

36) Family number: 41824567 (US2008122250A) © PatBase

Title: SEALING SYSTEM OF B–PILLARLESS REAR SLIDING DOOR

Priority: DE200610055817 20061127

Family:

Publication number	Publication date	Application number	Application date
CN101191401 A	20080604	CN200710187553	20071126
CN101191401 B	20130508	CN200710187553	20071126
DE102006055817 A1	20080529	DE200610055817	20061127
DE502007006719 D1	20110428	DE200750006719T	20071112
EP1925479 A2	20080528	EP20070120444	20071112
EP1925479 A3	20080730	EP20070120444	20071112
EP1925479 B1	20110316	EP20070120444	20071112
US2008122250 AA	20080529	US20070944664	20071126
US7703837 BB	20100427	US20070944664	20071126

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC

Assignee(s):(std)**:** BENDEROTH THOMAS ; FORD GLOBAL TECH LLC ; LICHTER MARTIN

Assignee(s): FORD GLOBAL TECHNOLOGIES LLC

Inventor(s):(std)**:** BENDEROTH THOMAS ; LICHTER MARTIN ; THOMAS BENDEROTH ; MARTIN LICHTER

Agent(s): DOERFLER THOMAS; FORD GLOBAL TECHNOLOGIES LLC; GREGORY; BROOKS KUSHMAN PC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

International class (IPC 8–9): B60J10/08 B60J5/00 B60J5/04 B60J5/06 E06B3/16 E06B3/968 (Advanced/Invention); B60J10/00 B60J5/00 B60J5/04 B60J5/06 E06B3/04 E06B3/96 (Core/Invention)

CPC: B60J10/248 B60J10/87 B60J5/06

European class: B60J10/00D5E B60J10/08C2 B60J5/06

US class: 296/146.1 296/146.9 296/146.900P 296/155

Classification Explorer

Cited documents: WO04110799 A1, US6641205 BA, US6340199 BA, US4583796 A, US2007125003 AA, JP59034924 A2, FR2892345 A1, EP1275539 B1, EP1275539 A1, EP1057673 B1, EP1057673 A1, DE9321411 U, DE4314115 A1, DE10334143 A1,

Forward Citations: US8550537, US8491033, US8328269, US2017028829, US2012193938, US2012151843, US2012119538, US2012112494,

Abstract:
Source: US2008122250A The invention relates to a vehicle door for closing a door opening provided in a vehicle frame, and to a vehicle door system with the vehicle door according to the invention. The vehicle door has body panels, an inner panel which, in the fitted position, faces the vehicle interior, and an outer panel which, in the fitted position, faces away from the vehicle interior, said panels being connected fixedly to each other and delimiting a cavity. With the proviso of providing a vehicle door of the type mentioned at the beginning, which can be produced in a less complicated manner, it is proposed that an end panel for delimiting the cavity is provided as a further body panel at least on one narrow side of the vehicle door, and that the end panel is connected fixedly laterally to the outer panel and the inner panel.

0) US2011099912A – VEHICLE DOOR FRAME STRUCTURE

37) Family number: 42348662 (US2011099912A) © PatBase

Title: VEHICLE DOOR FRAME STRUCTURE

Priority: JP20070093368 20070330 JP20070095437 20070330 JP20070117907 20070427 JP20090245582 20091026 WO2008JP56047 20080328

Family:

Publication number	Publication date	Application number	Application date
CN101663177 A	20100303	CN200880010603	20080328
CN101663177 B	20121121	CN200880010603	20080328
JP2008247283 A2	20081016	JP20070093368	20070330
JP2008254460 A2	20081023	JP20070095437	20070330
JP2008273343 A2	20081113	JP20070117907	20070427
JP2010047256 A2	20100304	JP20090245582	20091026
JP4430687 B2	20100310	JP20070095437	20070330
JP5043091 B2	20121010	JP20090245582	20091026
JP5154816 B2	20130227	JP20070093368	20070330
JP5224714 B2	20130703	JP20070117907	20070427
US2011099912 AA	20110505	US20080593645	20080328
US8458959 BB	20130611	US20080593645	20080328
WO08123409 A1	20081016	WO2008JP56047	20080328

Probable Assignee: SHIROKI CORP

Assignee(s):(std)**:** MURATA KENJI ; OHSAWA SHIGENOBU ; OHTAKE YASUHIRO ; SHIROKI CORP ; YOSHIHARA JIRO

Assignee(s): SHIROKI KOGYO CO LTD

Inventor(s):(std)**:** JIRO YOSHIHARA ; KENJI MURATA ; MURATA KENJI ; OHSAWA SHIGENOBU ; OHTAKE YASUHIRO ; SHIGENOBU OHSAWA ; YASUHIRO OHTAKE ; YOSHIHARA JIRO ; OTAKE YASUHITO ; OSAWA SHIGENOBU ; MURATA AKIYUKI

Agent(s): MILLEN WHITE ZELANO BRANIGAN P C; MILLEN WHITE ZELANO BRANIGAN PC; MIURA KUNIO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J5/04 (Advanced/Invention); B60J5/04 (Core/Invention)

CPC: B60J10/21 B60J10/86 B60J10/88 B60J5/0402

European class: B60J10/00D1 B60J10/08C B60J10/08C3 B60J5/04B2

US class: 49/479.1 49/502 49/502P

Classification Explorer

Cited documents: WOJP56047, WO08123409 A1, US7390050 BB, US7350849 BB, US7152373 BB, US7093393 BB, US6802666 BA, US5839232 A, US5718084 A, US5566510 A, US5524388 A, US5493814 A, US5127193 A, US4956941 A, US4910918 A, US4838607 A, US4729593 A, US2007084130 AA, US2005204634 AA, US2004221512 AA, US2004123526 AA, US20040123526, US1914216 A, US0123526, JPS57109014 U, JP57109014 U1, JP57109014 U, JP3276817 A2, JP3276817, JP200762637, JP200762637, JP2007062637 A2, JP2007062637, JP200607852, JP2006007852 A2, JP2006007852, JP2005313697 A2, JP2005313697, JP2005153767 A2, JP2005153767, JP2004338612 A2, JP2004338612, JP200372383, JP200372383, JP2003072383 A2, JP2003072383, JP2002127749 A2, JP2002127749, JP2001253239 A2, JP2001253239, JP1159185 A2, JP1159185, JP1159185, JP11059185 A2, JP11059185, JP1035284, JP10035284 A2, JP10035284, DE19961873 A1, DE19961873, DE10041187 A1,

DE10041187,

Forward Citations: WO16108143, WO13015271, WO13015270, US9776480, US9764625, US9656538, US9649921, US9649915, US9618123, US9566850, US9505294, US9383016, US9186964, US9027285, US8851552, US8801070, US8651557, US8458959, US8424953, US8282154, US8172125, US2016280054, US2016257183, US2016214469, US2016214468, US2016167491, US2016073527, US2015292624, US2015266364, US2015130214, US2015007504, US2014367923, US2014157602, US2014137480, US2014132028, US2013232881, US2013161976, US2013127196, US2011308171, US2010270830, JP6105910, JP5651656, JP5390835, JP2014151659, JP2014104872, JP2014088077, JP2014046792, JP2013023130, JP2010116043, JP2010111157, EP2343205, EP2343205, CN105172552, CN103786555,

Abstract:
Source: US2011099912A A vehicle door frame structure has an upper sash member located along a roof panel of a vehicle body and also has a vertical pillar sash member located along a center pillar of the vehicle body. The upper sash member has, at its linear end joined to the vertical pillar sash member side, an aesthetically designed section and an inner frame portion. The aesthetically designed section is located on the outer side of the door, and the inner frame portion is located closer to the vehicle interior than the aesthetically designed section and is shorter in length than the aesthetically designed section. The vertical pillar sash member has at its upper end a superposed contact section that is superposed, in the direction of the thickness of the door, on an end of the inner frame portion of the upper sash member, and the superposed contact section and the inner frame portion are joined together while being superposed on each other.

0) US2011187117A – SUBSTANTIALLY SPHERICAL MULTI–BLADE WIND TURBIN...

38) Family number: 44066283 (US2011187117A) © PatBase

Title: SUBSTANTIALLY SPHERICAL MULTI–BLADE WIND TURBINE

Priority: EP20080156970 20080527 EP20090761602 20090526 WO2009EP56376 20090526

Family:

Publication number	Publication date	Application number	Application date
EP2128439 A1	20091202	EP20080156970	20080527
EP2307716 A2	20110413	EP20090761602	20090526
US2011187117 AA	20110804	US20090995123	20090526
WO09150039 A2	20091217	WO2009EP56376	20090526
WO09150039 A3	20100514	WO2009EP56376	20090526

Probable Assignee: SYNEOLA LUXEMBOURG SA

Assignee(s):(std)**:** FIORUCCI STEPHANE ; HESS JOSEPH ; MARGUET ERIC ; MULLER MYRIAM ; SYNEOLA SA

Assignee(s): SYNEOLA LUXEMBOURG SA

Inventor(s):(std)**:** FIORUCCI STEPHANE ; MARGUET ERIC ; MULLER MYRIAM ; HESS JOSEPH

Agent(s): BALSTERS ROBERT; KUEGELE BERNHARD; BALSTERS ROBERT ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): F03D11/02 F03D3/06 F03D9/00 F03D9/02 (Advanced/Invention); F03D3/00 F03D9/00 (Core/Invention)

CPC: Y02E10/563 F03D9/007 B60K16/00 B60K2016/003 B60K2016/006 B60W2510/244 F03D3/06 F05B2220/708 F05B2230/90 F05B2240/13 F05B2240/9111 F05B2240/94 F05B2240/941 F05B2260/80 H02J13/00 Y02B10/30 Y02B10/70 Y02E10/465 Y02E10/728 Y02E10/74 H02J3/382 H02J3/383 H02J3/386 Y02E10/763 Y02P70/523 F03D9/11 F03D9/25 Y02T10/90

European class: B60K16/00 F03D3/06 F03D9/00C F03D9/00E F03D9/02B L60K16/00A L60K16/00B L60W510/24A2 R05B220/708 R05B230/90 R05B240/13 R05B240/9111 R05B240/94 R05B240/941 R05B260/80 T02J13/00 T02J3/38 T02J3/38D1 Y02B10/30 Y02B10/70 Y02E10/46U Y02E10/72 Y02E10/72N Y02E10/74 Y02E60/72B Y02E60/72D Y04S10/12D Y04S10/14

US class: 290/55 290/55P 416/151 416/151S 416/223.00RS 416/223R

Classification Explorer

Cited documents: WO9902856 A1, WO9807981 A1, WO07113399 A2, WO07066207 A2, WO07025387 A1, WO07022911 A1, WO07007103 A1, WO07001154 A1, WO06108264 A1, WO06096091 A1, WO06068529 A1, WO06066502 A1, WO06063380 A1, WO06060761 A1, WO06059062 A1, WO06053356 A1, WO06050711 A1, WO06046337 A1, WO06007696 A1, WO05108783 A1, WO05100878 A1, WO05100783 A1, WO05076445 A1, WO05075822 A1, WO05052362 A2, WO05047101 A1, WO04109099 A1, WO04063564 A1, WO04027259 A1, WO03087571 A2, WO03083294 A1, WO03067081 A1, WO03027497 A1, WO03019006 A1, WO03016716 A1, WO03003813 A1, WO0214698 A1, WO02068818 A1, WO02057625 A1, WO02053908 A1, WO0161187 A1, US7252165 BA, US7132760 BB, US7124586 BB, US6674263 BB, US6582291 BB, US6249058 BA, US6016015 A, US5571045 A, US5394016 A, US5326313 A, US5269647 A, US4857753 A, US4779006 A, US4648312 A, US4462213 A, US4379972 A, US4319141 A, US4224528 A, US4115032 A, US4052134 A, US4047834 A, US3430550 A, US3267833 A, US2009246033 AA, US2009184520 AA, US2008007068 AA, US2007284885 AA, US2007282495 AA, US2007194573 AA, US2006272870 AA, US2006229374 AA, US2006010867 AA, US2005218657 AA, US2005180851 AA, US2004238237 AA, US2004062059 AA, US2003209912 AA, US2003175109 AA, US2002109358 AA, JP6237501 A2, JP5015006 A2, JP2004080914 A2, JP2002176702 A2, JP2001221146 A2, JP10201008 A2, JP10184528 A2, GB2432889 A1, FR2801937 A1, FR2683864 A1,

EP1731846 A1, EP1628093 A2, EP1045987 B1, EP0950857 A1, DE9314187 U, DE3407881 A1, DE3303898 C2, DE2914957 A1, DE19919133 A1, DE19644890 A1,

DE102005037396 A1

Forward Citations: WO13190163, US9777712, US9732728, US9597975, US9419442, US9343904, US9222461, US9014868, US2015275865, US2015017006, US2013024035, RU2468288, CN102705167, CH705024, AU2013201284,

Abstract:
Source: US2011187117A A substantially spherical multi−blade wind turbine (SSMBWT) includes: (a) a plurality of multifunctional blades (2); and (b) a rotating axis (3) configured to rotate when the blades capture wind and for coupling to a power generator (4a), wherein each multifunctional blade (2) comprises three integrated functional sections (2a, 2b, 2c), wherein each functional section has a different shape and is configured to guide and evacuate incoming airflow and to capture wind energy from different anisotropic directions, ranging from around to above and below the body of the substantially spherical multi−blade wind turbine (SSMBWT).

39) Family number: 45026258 (US2012090240A) © PatBase

Title: ACTUATION METHOD FOR AN ELECTRIC WINDOW WINDER

Priority: DE200810058588 20081122 EP20090771693 20091104 WO2009EP07886 20091104

Family:

Publication number	Publication date	Application number	Application date
DE102008058588 A1	20100930	DE200810058588	20081122
DE502009004573 D1	20121025	DE200950004573T	20091104
EP2361191 A2	20110831	EP20090771693	20091104
EP2361191 B1	20120829	EP20090771693	20091104
ES2391376 T3	20121123	ES20090771693T	20091104
US2012090240 AA	20120419	US20090127991	20091104
US8661735 BB	20140304	US20090127991	20091104
WO10057577 A2	20100527	WO2009EP07886	20091104
WO10057577 A3	20100722	WO2009EP07886	20091104

Probable Assignee: BROSE FAHRZEUGTEILE

Assignee(s):(std)**:** BROSE FAHRZEUGTEILE ; ZELLMER RENE

Assignee(s): BROSE FAHRZEUGTEILE GMBH AND CO ; BROSE FAHRZEUGTEILE GMBH AND CO HALLSTADT KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCHAFT

Inventor(s):(std)**:** ZELLMER RENE

Agent(s): FDST PATENTANWAELTE; ISERN JORGE; MENDELSOHN DRUCKER AND DUNLEAVY PC; STEVE; FREIER RUEDIGER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/14 B60J1/17 E05F11/38 E05F15/00 E05F15/20 (Advanced/Invention); B60J1/12 B60J1/17 E05F15/00 E05F15/20 (Core/Invention)

CPC: E05Y2900/00 B60J1/14 B60J1/17 E05Y2400/415 E05Y2400/54 E05Y2400/554 E05Y2400/57 E05Y2900/508 E05Y2900/55 E05F15/40 E05F15/41 E05Y2900/50

European class: B60J1/14 B60J1/17 E05F15/00B1 P05Y400/415 P05Y400/54 P05Y400/554 P05Y400/57 P05Y900/508 P05Y900/550

US class: 296/146.2 49/28 49/31 49/31P 49/349 49/502 49/506 49/506S

Classification Explorer

Cited documents: WO0153124 A1, US6867562 BB, US6773053 BB, US6733065 BB, US6630807 BB, US6601905 BA, US6297609 BA, US6246199 BA, US5451849 A, US5110175 A, US4884070 A, US2011192088 AA, US2008266051 AA, US2007055415 AA, US2003116994 AA, US2003052635 AA, DE4325501 A1,

DE202006003285 U1

CH176787 A,

Forward Citations: US9302566, US9015993, US8756863, US8590210, US2015275562, US2015101249, US2011314737, US2011192088, DE102012018703,

Abstract:
Source: US2012090240A The invention, in certain embodiments, specifies an actuation method for an electric window winder (10) of a front window (1) of a vehicle (3) without a B–pillar and with a moveable rear window (2), which actuation method allows all the windows to be closed in a particularly rapid and reliable manner. According to the method, provision is made for the front window (1) to be closed by the window winder (10), taking into consideration a trapping–prevention means (25). Furthermore, a closing condition is checked during the actuation

method. If, on account of this closing condition, it can be assumed that trapping prevention–related reversing of the front window (1) has been caused by a collision with the rear window (2), the front window (1) is closed again after the trapping prevention–related reversing operation.

40) Family number: 46172706 (US2010183869A) © PatBase

Title: ALUMINUM ALLOYS, ALUMINUM ALLOY PRODUCTS AND METHODS FOR MAKING THE SAME

Priority: US20090145416P 20090116 US20090160631P 20090316 US20090187183P 20090615 US20090221943P 20090630 US20090269880P 20090629 US20090269660P 20090626 US20100657099 20100112 US20100824192 20100627 US20100396524P 20100528 US20100803549 20100628 US20110068785 20110520 US20120694457 20121203 US20150592297 20150108 US20100396254P 20100524 WO2010US20937 20100113 WO2010US01853 20100629

Family:

Publication number	Publication date	Application number	Application date
CA2765648 AA	20110106	CA20102765648	20100629
CA2765648 C	20140603	CA20102765648	20100629
CN102333897 A	20120125	CN201080009542	20100113
CN102333897 B	20131120	CN201080009542	20100113
EP2382334 A2	20111102	EP20100700362	20100113
EP2382334 B1	20160921	EP20100700362	20100113
EP2449179 A1	20120509	EP20100794486	20100629
KR20110111486 A	20111011	KR20117019046	20100113
TW201031761 A	20100901	TW20100101143	20100115
TWI467025 B	20150101	TW20100101143	20100115
US2010183869 AA	20100722	US20100657099	20100112
US2010329789 AA	20101230	US20100824192	20100627
US2011020065 AA	20110127	US20100803549	20100628
US2011287153 AA	20111124	US20110068785	20110520
US2013160963 AA	20130627	US20120694457	20121203
US2015122660 AA	20150507	US20150592297	20150108
US8349462 BB	20130108	US20100657099	20100112
US8801326 BB	20140812	US20100824192	20100627
US8950465 BB	20150210	US20120694457	20121203
WO10083245 A2	20100722	WO2010US20937	20100113
WO10083245 A3	20100910	WO2010US20937	20100113
WO11002500 A1	20110106	WO2010US01853	20100629
WO11149519 A1	20111201	WO2011US00916	20110523

Probable Assignee: ALCOA USA CORP

Assignee(s):(std)**:** ABBOTT JANELL LYN ; ALCOA INC ; ASKIN ALBERT L ; COPPES BRYAN J ; FIELDS JAMES R ; LIN JEN C ; INFILTRATOR SYSTEMS INC ; MOORE JR ROY E ; SULLIVAN SHAWN PATRICK ; SAWTELL RALPH R ; YAN XINYAN ; ZIMMER MICHAEL

Assignee(s): HALLAHAN DENNIS ; MOORE ROY E ; EZFLOW LP ; ISI POLYETHYLENE SOLUTIONS LLC ; INFILTRATOR WATER TECHNOLOGIES LLC ; DEUTSCHE BANK NEW YORK BRANCH AG ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; GENERAL ELECTRIC CAPITAL CORP ; CARDILLO CHRISTOPHER ; ALCOA USA CORP

Inventor(s):(std)**:** ABBOTT JANELL LYN ; ASKIN ALBERT L ; CARDILLO CHRISTOPHER ; CARDILLO CHRISTOPHER R ; COPPES BRYAN A ; COPPES BRYAN J ; FIELDS JAMES R ; HALLAHAN DENNIS ; HALLAHAN DENNIS F ; LIN JEN C ; LYN ABBOTT JANELL ; MOORE JR ROY E ; MOORE ROY E ; PATRICK SULLIVAN SHAWN ; SAWTELL RALPH R ; SULLIVAN SHAWN PATRICK ; XINYAN YAN ; YAN XINYAN ; ZIMMER MICHAEL ; YAN XIN YAN

Agent(s): RICHES MCKENZIE AND HERBERT LLP; LENZING GERBER STUTE; CASEY LINDSAY JOSEPH; INTELLECTUAL PROPERTY; CHARLES G NESSLER; GREENBERG TRAURIG LLP; C; BRIGGS HEATH J; MCHUGH STEVEN M; OZINGA MARTIN G

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A21D13/00 A23P1/00 A47J37/06 B22D17/00 B22D17/08 B22D17/20 B22D21/00 B22D25/00 B32B15/04 C22C21/00 C22C21/08 C25D11/02 C25D11/04 C25D11/16 C25D11/18 C25D5/02 C25D9/06 E02B11/00 E02B13/00 E03F1/00 (Advanced/Invention); B22D17/00 B22D25/00 B32B15/04 C22C21/00 C22C21/06 C25D11/04 (Core/Invention)

CPC: E03F1/003 Y10T428/12736 Y10T428/26 B22D17/00 C25D11/16 B22D17/20 B22D21/007 B22D25/00 C22C21/00 C25D5/02 C25D9/06 C25D11/022 C25D11/04 C25D11/18 A21D13/32 A21D13/47

European class: A21D13/00D4 A21D13/00H12 B22D17/00 C22C21/00 C25D11/04 C25D11/18 E03F1/00B2

US class: 164/113 164/113S 164/69.1 164/76.1 164/76.100S 205/121 210/170.08 405/43 405/43S 405/46 405/49 405/49P 420/544 420/544S 420/548 420/548S 420/553 420/553S 426/383 426/383P 428/332 428/332P 428/472.2 428/472.200S 428/650

Classification Explorer

Cited documents: WO08049010 A2, WO04061146 A1, US8950465 BB, US8349462 BB, US7584778 BB, US7527872 BB, US7500805 BA, US7419332 BA, US7351006 BB, US7306400 BA, US7226241 BB, US7189027 BB, US7067232 BB, US7008138 BB, US6783836 BB, US6783730 BB, US6773666 BB, US6749992 BB, US6733566 BA, US6715420 BB, US6673519 BB, US6631679 BB, US6569601 BA, US6560845 BB, US6521391 BA, US6517954 BA, US6503292 BB, US6440290 BA, US6398539 BA, US6374737 BA, US6361248 BA, US6306342 BB, US6277217 BA, US6235409 BA, US6132531 A, US6077616 A, US6051327 A, US5985046 A, US5955147 A, US5865931 A, US5725683 A, US5697422 A, US5637404 A, US5616231 A, US5538600 A, US5492166 A, US5478414 A, US5472788 A, US5441363 A, US5435373 A, US5417819 A, US5370171 A, US5318641 A, US5290424 A, US5259436 A, US5246055 A, US5087151 A, US5076344 A, US4976918 A, US4973523 A, US4847048 A, US4656927 A, US4223204 A, US3989548 A, US3769180 A, US3709742 A, US3704210 A, US3704209 A, US3326728 A, US3151948 A, US3150967 A, US3107159 A, US3043754 A, US2885286 A, US2612666 A, US2022831 A, US2010183869 AA, US2010047113 AA, US2010008040 AA, US2009074921 AA, US2009061218 AA, US2009061216 AA, US2009026063 AA, US2008241573 AA, US2008240859 AA, US2008066833 AA, US2007221653 AA, US2007154261 AA, US2007125460 AA, US2007092739 AA, US2007092614 AA, US2007062669 AA, US2007042215 AA, US2007029207 AA, US2007017604 AA, US2006289093 AA, US2006204780 AA, US2006201333 AA, US2006093829 AA, US2006027291 AA, US2006021683 AA, US2005238529 AA, US2005238528 AA, US2005191204 AA, US2005167012 AA, US2005111915 AA, US2004261916 AA, US2004040446 AA, US2004011437 AA, US2003219310 AA, US2003194572 AA, US2003152478 AA, US2003143485 AA, US2003138730 AA, US2003000409 AA, US2002185790 AA, US2002150750 AA, US2002129484 AA, US2002121204 AA, US2002034707 AA, TW200409825 A, TW178648 B, TW178648, RU2001147 C1, RU2001145 C1, JP6322493 A2, JP4107236 A2, JP4032541 A2, JP2295640 A2, JP1247549 A2, GB2321781 A1, GB2155036 A1, GB1331413 A, FR671737 A, FR2128311 A1, EP1205567 A2, EP0845812 A2, CN1936038 A,

Forward Citations: WO14047607, USD757518, USD753262, US9644283, US9493876, US9434197, US9314871, US9280183, US9206522, US9185835, US9173336, US9045873, US9034166, US8950465, US8349462, US8322948, US7914230, US2016008878, US2015122660, US2015072594, US2014076600, US2014057126, US2013160963, US2013136946, US2013093299, US2011214993, US2011089039, US2011056836, US2010329788, US2010215926, TWI586845, TWI535895, EP2942423, EP2906416, CN105780079, CN105734356, CN105026621, CN104846430, CN103909690, CN103157967, CN103052290,

Abstract:
Source: US2010183869A Decorative shape cast products and methods, systems, compositions and apparatus for producing the same are described. In one embodiment, the decorative shape cast products are produced from an Al–Ni or Al–Ni–Mn alloy, with a tailored microstructure to facilitate production of anodized decorative shape cast product having the appropriate finish and mechanical properties.

0) DE102010023984A1 – PANE ARRANGEMENT FOR PASSENGER CAR I.E. CABRIOL...

41) Family number: 50127768 (DE102010023984A1) © PatBase

Title: PANE ARRANGEMENT FOR PASSENGER CAR I.E. CABRIOLET CAR, HAS SEALING SECTION RISING MAXIMUM TO OUTER SIDES OF PANES IN OUTWARD DIRECTION, WHERE SEALING SECTION IS MOLDED TO ONE OF PANES

Priority: DE201010023984 20100616

Family:

Publication number	Publication date	Application number	Application date
DE102010023984 A1	20111222	DE201010023984	20100616

Probable Assignee: DAIMLER AG

Assignee(s):(std)**:** DAIMLER AG

Inventor(s):(std)**:** KRAEMER BERND

International class (IPC 8–9)**:** B60J10/02 (Advanced/Invention)

CPC: B60J10/777

European class: B60J10/04E4

Classification Explorer

Forward Citations: WO17009320, EP3118040,

Abstract:
The arrangement (12) has a pane i.e. front side plate, and another pane i.e. rear side plate (10) formed between abutting surfaces (16) of the rear side plate, where a sealing section (18) lies close to the abutting surfaces. The panes are formed in a region of abutting surfaces planarly to each other at outer sides of the abutting surfaces, respectively. The sealing section raises maximum to the outer sides of the panes in outward direction. The sealing section is molded to one of the panes, where the sealing section is made of an elastic material.

42) Family number: 50665838 (US2014045209A) © PatBase

Title: STRUCTURES FOR ENHANCEMENT OF LOCAL ELECTRIC FIELD, LIGHT ABSORPTION, LIGHT RADIATION, MATERIAL DETECTION AND METHODS FOR MAKING AND USING OF THE SAME

Priority:

CN201180035425	20110520	US20100347178P	20100521	US20110699270	20110520
US20130699270	20130613	US20120622226P	20120410	US20130793092P	20130315
US20130838600	20130315	US20130801424P	20130315	US20130801096P	20130315
US20130800915P	20130315	US20130801933P	20130315	US20130794317P	20130315
US20130802020P	20130315	US20130802223P	20130315	WO2011US37455	20110520
US20140216858	20140317	US20140217052	20140317	WO2013US32347	20130315
US20140459239	20140813	US20140459251	20140813	US20150668750	20150325
WO2014US29979	20140315	US20150852412	20150911	US20150852417	20150911
WO2014US29675	20140314	US20140775635	20140318	US20140775634	20140315
WO2014US28417	20140314	US20140775638	20140314	US20150871678	20150930
WO2014US30624	20140317	WO2014US30108	20140316	WO2014US31099	20140318

Family:

Publication number	Publication date	Application number	Application date
AU2013246359 AA	20131017	AU20130246359	20130315
AU2013246359 BB	20170330	AU20130246359	20130315
CA2868928 AA	20140929	CA20132868928	20130315
CN103026298 A	20130403	CN201180035425	20110520
CN103026298 B	20160316	CN201180035425	20110520
CN104380084 A	20150225	CN201380029548	20130315
CN105209884 A	20151230	CN201480028698	20140315
CN105229467 A	20160106	CN201480028357	20140314
CN105246682 A	20160113	CN201480028671	20140318
CN105247349 A	20160113	CN201480028307	20140316
CN105358979 A	20160224	CN201480028669	20140314
CN105911814 A	20160831	CN201610091281	20110520
EP2572242 A2	20130327	EP20110818498	20110520
EP2572242 A4	20140219	EP20110818498	20110520
EP2836821 A1	20150218	EP20130776238	20130315
EP2836821 A4	20160106	EP20130776238	20130315
EP2969542 A2	20160120	EP20140764689	20140318
EP2969542 A4	20161109	EP20140764689	20140318
EP2972239 A2	20160120	EP20140806827	20140316
EP2972239 A4	20161221	EP20140806827	20140316
JP2015514225 T2	20150518	JP20150505767T	20130315
RU2014144947 A	20160527	RU20140144947	20130315
US2014045209 AA	20140213	US20110699270	20110520
US2014154668 AA	20140605	US20130838600	20130315
US2014264989 AA	20140918	US20140216858	20140317
US2014265013 AA	20140918	US20140217052	20140317
US2014374621 AA	20141225	US20140459239	20140813
US2015338346 AA	20151126	US20150668750	20150325
US2016003744 AA	20160107	US20150852412	20150911
US2016003817 AA	20160107	US20150852417	20150911
US2016025634 AA	20160128	US20140775635	20140318
US2016033488 AA	20160204	US20140775634	20140315
US2016033496 AA	20160204	US20140775638	20140314
US2016258867 AA	20160908	US20150871678	20150930

US9007575 BB	20150414	US20140459239	20140813	
US9013690 BA	20150421	US20140459251	20140813	
US9182338 BB	20151110	US20110699270	20110520	
WO12024006 A2	20120223	WO2011US37455	20110520	
WO12024006 A3	20120419	WO2011US37455	20110520	
WO13154770 A1	20131017	WO2013US32347	20130315	
WO14144133 A1	20140918	WO2014US28417	20140314	
WO14145036 A1	20140918	WO2014US29675	20140314	
WO14145798 A2	20140918	WO2014US30624	20140317	
WO14145798 A3	20150528	WO2014US30624	20140317	
WO14146115 A2	20140918	WO2014US31099	20140318	
WO14146115 A3	20141231	WO2014US31099	20140318	
WO14197096 A2	20141211	WO2014US29979	20140315	
WO14197096 A3	20150129	WO2014US29979	20140315	
WO14197097 A2	20141211	WO2014US30108	20140316	
WO14197097 A3	20150122	WO2014US30108	20140316	

Probable Assignee: TRUSTEES OF PRINCETON UNIV

Assignee(s):(std)**:** CHOU STEPHEN Y ; LI WENDI ; UNIV PRINCETON ; TRUSTEES OF PRINCETON UNIV

Assignee(s): ZHOU LIANG CHENG ; TRUSTEES OF PRINCETON UNIV438 – 701 CARNEGIE CENTERPRINCETONNJ08540US ; PRINCETON UNIV ; PRINCETON UNIVERSITY ; AIR FORCE UNITED STATES

Inventor(s):(std)**:** DING FEI ; DING WEI ; ZHOU LIANGCHENG ; ZHOU LIANG CHENG ; LIANG YIXING ; CHEN HAO ; LI WENDI ; CHOU STEPHEN Y

Inventor(s): CHOU STEPHEN YUS ; ZHOU LIANG CHENGUS

Agent(s): FB RICE; FB RICE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; TOLLETT IAN; WILLIAMS POWELL; JAMES S; BOZICEVIC FIELD AND FRANCIS LLP; BOOKS MARK E; KEDDIE JAMES S

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A01D84/00 B29C33/00 B29C33/56 B29C37/00 B29C59/02 B32B9/00 B82Y15/00 B82Y30/00 C12M1/34 C12Q1/68 G01J3/00 G01J3/30 G01N1/28 G01N21/03 G01N21/27 G01N21/55 G01N21/552 G01N21/59 G01N21/63 G01N21/64 G01N21/65 G01N21/66 G01N21/76 G01N21/77 G01N21/78 G01N27/26 G01N33/48 G01N33/487 G01N33/50 G01N33/53 G01N33/536 G01N33/542 G01N33/543 G01N33/553 G01N33/574 G01N37/00 G02B21/00 G03F7/00 G1N21/65 (Advanced/Invention); G01N21/63 G01N21/69 (Advanced/Non–invention)

CPC: G01N21/6486 B29C37/0003 B29C2059/023 G03F7/0002 B29C33/424 B29C33/56 B29K2995/0005 B29C59/026 B82Y30/00 G01N21/6452 G01N21/648 Y10T428/24174 G01N21/59 G01N2021/0378 G01N2021/6482 G01N21/554 G01N33/54373 G01N2201/06113 G01N33/54386 G02B21/008 B29C59/02 G01N33/57473 G01N1/2813 G01N21/6428 G01N21/64 G01N21/03 G01N33/54393 B82Y15/00 B82Y20/00 G01N21/658

European class: G01N21/64P2 G01N21/65D

US class: 1/1 250/214R 250/453.11 264/220 264/39 356/300 356/317 356/432 422/52 422/69 422/82.05 422/82.08 427/162 427/551 428/119 435/287.1 435/287.2 435/288.7 435/34 435/5 435/6.1 435/6.11 435/7.1 435/7.2 436/164 436/172 436/501 438/71

Classification Explorer

Cited documents: WO14055559 A1, WO13154770 A1, WO12024006 A2, WO11155602 A1, WO11106057 A2, WO11105679 A2, WO11016057 A2, WO10056258 A1, WO09094058 A2, WO09029550 A2, WO08014314 A2, WO06138442 A2, WO0194946 A2, US7965388 BB,

US7901607 BB, US7892489 BB, US7851172 BB, US7780893 BB, US7714317 BB, US7713849 BB, US7586601 BB, US7570355 BB, US7500953 BB, US7426025 BB, US7388661 BB, US7245370 BB, US7153682 BB, US6743581 BA, US6093558 A, US5866430 A, US5552272 A, US5136973 A, US2458864 A, US2015036117 AA, US2014011013 AA, US2013161869 AA, US2013126472 AA, US2013115413 AA, US2012190591 AA, US2012112385 AA, US2011275061 AA, US2011275021 AA, US2011166045 AA, US2011143375 AA, US2011128536 AA, US2011058164 AA, US2011042352 AA, US2011005932 AA, US2010276290 AA, US2010253940 AA, US2010233432 AA, US2010233377 AA, US2010173113 AA, US2010140220 AA, US2010126882 AA, US2010120251 AA, US2010078855 AA, US2010078854 AA, US2010072661 AA, US2010032321 AA, US2009303472 AA, US2009246309 AA, US2009242429 AA, US2009226766 AA, US2009214392 AA, US2009166317 AA, US2009149344 AA, US2009097022 AA, US2009047485 AA, US2008196607 AA, US2008145964 AA, US2008106001 AA, US2008094621 AA, US2008024776 AA, US2007177139 AA, US2007155021 AA, US2007153267 AA, US2006252065 AA, US2006146323 AA, US2006054507 AA, US2006038990 AA, US2006034729 AA, US2004156108 AA, US2004065252 AA, US2004046288 AA, US2003203405 AA, US2002185759 AA, US2002109110 AA, KR20110097389 A, JP2012063294 A2, JP2011506916 T2, JP2011252928 A2, JP2007319988 A2, JP2007240361 A2, JP2003536073 T2, JP2003510607 T2, CN1549921 A, CN102803147 A, CN102719352 A, CN102614946 A, CN101952697 A, CN101817495 A, CN101672841 A, CN101641592 A, CN101627304 A, CN101606057 A, CN101553724 A, CN101013088 A,

Forward Citations: WO17058827, WO17031475, WO16168386, WO16156499, WO16090407, WO15165867, WO15123461, WO14197097, WO14156088, WO14145798, WO14145036, WO14144133, WO14025039, WO14025038, WO14025035, WO13154770, US9773695, US9773648, US9768034, US9754800, US9741593, US9733188, US9726608, US9721789, US9696202, US9658166, US9638625, US9612201, US9601529, US9588049, US9543458, US9515218, US9512000, US9478685, US9429723, US9410843, US9406709, US9343490, US9337220, US9304035, US9267894, US9263613, US9182338, US9177985, US9123841, US9082673, US9054008, US9013690, US9007575, US9000353, US8890271, US8750653, US2017082548, US2016169886, US2016069810, US2015290871, US2015233832, US2015212000, US2015211999, US2015070693, US2014347661, US2014339090, US2013264268, US2013115413, US2012001284, JP6198957, JP2016538563, JP2015514225, JP2015014547, JP2015014546, JP2014190834, JP2014037969, FR3020466, EP3076161, EP2972239, EP2969542, EP2572242, EP2572242, DE102016114440, DE102013106432, DE102013008104, CN105358979, CN105247349, CN105229467, CN105209884, CN105043423, CN104823049, CN104749163, CN104508468, CN104502584, CN104380084, CN104280542, AU2013246359,

Abstract:
Source: US2014045209A Microstructures and nanostructures (100) consisting of a substrate (110), an array of pillars (120) capped by metallic disc (130), metallic dots (clusters or granules) (140) disposed on the sidewalls of the pillars, and a metallic backplane (150) that can interact to enhance a local electric field, the absorption of the light, and the radiation of the light are disclosed. Methods to fabricate the structures (100) are also disclosed. Applications of the structures to enhance the optical signals in the detection of molecules and other materials on a structure surface, such as fluorescence, photoluminescence and surface enhanced Raman Scattering (SERS) are also disclosed.

0) EP2431225A1 – METHOD FOR AN AUTOMOTIVE HAZARDOUS DETECTION AN...

43) Family number: 50791922 (EP2431225A1) © PatBase

Title: METHOD FOR AN AUTOMOTIVE HAZARDOUS DETECTION AND INFORMATION SYSTEM

Priority: EP20100177323 20100917

Family:

Publication number	Publication date	Application number	Application date
DE602010012023 D1	20140130	DE201060012023T	20100917
EP2431225 A1	20120321	EP20100177323	20100917
EP2431225 B1	20131127	EP20100177323	20100917

Probable Assignee: SMR PATENTS SARL

Assignee(s):(std)**:** SMR PATENTS SARL

Assignee(s): SMR PATENTS S A R L

Inventor(s):(std)**:** SCHAEFFER HEINZ ERWIN ; STEFFEL HANS CLEMENS ; WAGNER DANIEL

Inventor(s): WAGNER DANIEL 71384 ; STEFFEL HANS CLEMENS 70327 ; SCHAEFFER HEINZ ERWIN 70806

Agent(s): JONES DAY RECHTSANWAELTE PATENTANWAELTE; WEBER BRULS DOROTHEE

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8–9)**:** B60Q9/00 B60R21/01 B60R25/104 B60W10/18 B60W30/08 B60W30/095 B60W50/08 B60W50/14 B62D1/00 B62D15/02 (Advanced/Invention)

CPC: B60W30/0956 B60Q9/008 B60W50/085 B60W50/14 B60W2550/10 B60W2550/14 B62D15/029

European class: B60Q9/00E B60W30/095D B60W50/08F B60W50/14 B62D15/02K L60W550/10 L60W550/14

Classification Explorer

Cited documents: US6226389 BA, EP2216222 A1, DE4410620 A1, DE10244205 A1,

DE102007049516 A1

DE10149115 A1,

Forward Citations: WO15028866, US9723274, US9683848, US9610975, US9607242, US9566911, US9555832, US9346396, US9164955, US9129528,

Abstract:
Source: EP2431225A1 The invention is related to a method of an automotive hazard detection and information system for vehicles running on at least one controller, wherein the method uses data of at least one optical sensor or a sensor group including an optical sensor, and comprises at least one analysis and interpretation unit per sensor or sensor group to determine geometry data and motion data of vehicle equipped with the software and/or of objects that arise hazardous situation and/or information requiring situation in the surrounding of the vehicle. The software provides the analysed data for at least one display unit and /or warning indicator for each sensor or sensor group. The software comprises software modules for different detection and information functions that use the same optical sensor data parallel for analysing and providing the different functions and that at least two modules are activated the same time.

0) US2014007961A – APPARATUS FOR MAINTAINING A HARVESTED ORGAN VIA...

44) Family number: 51991609 (US2014007961A) © PatBase

Title: APPARATUS FOR MAINTAINING A HARVESTED ORGAN VIABLE AND TRANSPORTABLE

Priority: SE20110000213 20110323 WO2012SE00045 20120323

Family:

Publication number	Publication date	Application number	Application date
AU2012231821 AA	20120927	AU20120231821	20120323
AU2012231821 BB	20160915	AU20120231821	20120323
CA2830307 AA	20130916	CA20122830307	20120323
CN103442675 A	20131211	CN201280014017	20120323
CN103442675 B	20160406	CN201280014017	20120323
EP2688541 A1	20140129	EP20120760611	20120323
EP2688541 A4	20140820	EP20120760611	20120323
IN08893DN2013 A	20141219	IN2013DN08893	20131011
US2014007961 AA	20140109	US20120006324	20120323
WO12128696 A1	20120927	WO2012SE00045	20120323

Probable Assignee: VIVOLINE MEDICAL AB

Assignee(s):(std)**:** KING BENJAMIN ; PASKEVICIUS AUDRIUS ; STEEN STIG ; VIVOLINE MEDICAL AB

Inventor(s):(std)**:** KING BENJAMIN ; PASKEVICIUS AUDRIUS ; STEEN STIG

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; ASKETORP GOERAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A01N1/02 A61J1/00 (Advanced/Invention)

CPC: A01N1/0289 A01N1/0247 Y10T137/86035

US class: 137/565.17

Classification Explorer

Cited documents: WO9915011 A1, WO9746091 A1, WO9114364 A1, WO11037511 A1, WO10036726 A1, WO09099939 A2, US4883455 A, US2010015592 AA, US2009221949 AA, US2005147958 AA, US2004221719 AA, US2001031907 AA,

DE102005048625 A1

CN1452863 A, CN101790306 A, CN101072500 A,

Forward Citations: WO15102524, CN104897886, CN104897886,

Abstract:
Source: US2014007961A An apparatus for enclosing an organ after harvesting and before implantation, having; a vessel enclosing a fluid, a connection tube for connecting a circulation hose to the organ for passing a fluid to the organ by a pump, and a degassing hose extending from the connection tube to the vessel. A pinch valve is arranged in the degassing hose. During a degassing phase, the pinch valve is opened to allow fluid flow from the pump, via the circulation hose to the connection tube and via the degassing hose to the vessel for expelling air entrapped in the fluid flow system. A balloon is arranged to prevent fluid flow via the connection tube to the organ during the degassing phase. A sterility arrangement closes the vessel at the top and may be replaced by further sterility arrangements without compromising the sterility.

0) FR2972966B – JOINT DE LISSAGE MONTE SANS FIXATION ENTRE LES ...

45) Family number: 52066322 (FR2972966B) © PatBase

Title: JOINT DE LISSAGE MONTE SANS FIXATION ENTRE LES JOINTS DE VITRE D'ENTREE DE PORTE D'UN VEHICULE.

Priority: FR20110052500 20110325

Family:

Publication number	Publication date	Application number	Application date
FR2972966 A1	20120928	FR20110052500	20110325
FR2972966 B1	20160812	FR20110052500	20110325

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Inventor(s):(std)**:** BIHOUES DIDIER

Inventor(s): DIDIER BIHOUES

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

International class (IPC 8–9): B60J10/04 (Advanced/Invention)

CPC: B60J10/79 B60J10/24 B60J10/32 B60J10/40

European class: B60J10/00D5 B60J10/00G1 B60J10/00J B60J10/06

Classification Explorer

Cited documents: WO10012095 A1, US5860692 A,

Abstract:
The element (7) has a flexible tube (15) longitudinally attached to a rigid sole (17) along its transverse central section. The rigid sole comprises a contact surface (33) that is arranged in contact with corresponding surfaces (251, 252) of glass pane seals (111, 112) to press the rigid sole on a mounting surface (9). The contact surface is located perpendicular to the sole and located in front of the sole and on a side of the flexible tube. The sole comprises a physical mark to allow positioning of the element along an axis. Independent claims are also included for the following: (1) a glass pane seal (2) a sealing system (3) a vehicle.

0) FR2977556B – PIED MILIEU DE LA CAISSE D'UN VEHICULE AUTOMOBI...

46) Family number: 52802504 (FR2977556B) © PatBase

Title: PIED MILIEU DE LA CAISSE D'UN VEHICULE AUTOMOBILE COMPORTANT UNE PARTIE SUPERIEURE RETRECIE ET VEHICULE EQUIPE D'UN TEL PIED MILIEU

Priority: FR20110056053 20110705

Family:

Publication number	Publication date	Application number	Application date
FR2977556 A1	20130111	FR20110056053	20110705
FR2977556 B1	20130726	FR20110056053	20110705

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Inventor(s):(std)**:** MASSON PATRICK

Inventor(s): PATRICK MASSON

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

International class (IPC 8–9): B62D65/02 (Advanced/Invention)

CPC: B62D29/00 B62D25/04

European class: B62D25/04 B62D29/00

Classification Explorer

Cited documents: EP1231130 A1, EP1170197 A2, DE4139303 A1,

Abstract:
The B–pillar (1) has a lower part (5) comprising buckled plates made of steel, and an upper part (4) comprising an extruded section made of lightweight metal or metal alloy i.e. aluminum or aluminum alloy. A cross–section of the upper part is smaller than a cross section of the lower part. The cross–section of the upper part lies between half and quarter of the cross–section of the lower part. The extruded section comprises a cross–section in shape of polygon i.e. trapezoid. An independent claim is also included for a car.

0) US2016369629A – CENTER–PILLARED FULL–FACE SHAFT DRILLING MACHIN...

47) Family number: 56901874 (US2016369629A) © PatBase

Title: CENTER–PILLARED FULL–FACE SHAFT DRILLING MACHINE

Priority: CN201410068510 20140227 CN201420085976U 20140227 WO2014CN093409 20141209

Family:

Publication number	Publication date	Application number	Application date
CN103924977 A	20140716	CN201410068510	20140227
CN103924977 B	20160106	CN201410068510	20140227
CN203742602 U	20140730	CN201420085976U	20140227
US2016369629 AA	20161222	US20140122161	20141209
WO15127808 A1	20150903	WO2014CN093409	20141209

Probable Assignee: CHINA RAILWAY ENGINEERING EQUIPMENT GROUP CO LTD

Assignee(s):(std)**:** CHINA RAILWAY ENG EQUIPMENT GROUP CO LTD ; CHINA RAILWAY ENGINEERING EQUIPMENT GROUP CO LTD

Assignee(s): CHINA RAILWAY ENGINEERING EQUIPMENT GROUP CO

Inventor(s):(std)**:** DONG YANPING ; JIA LIANHUI ; KLEUTERS NIKON ; LI JIANBIN ; NICOLAUS K ; NIKOLAUS K ; NIKOLAUS KLEUTERS ; WANG DUJUAN ; XIAO WEI ; ZHANG NINGCHUAN ; ZHAO HUA ; ZHOU QIAN ; ZHUO XINGJIAN

Inventor(s): NIKOLAUSK

Agent(s): ZHENGZHOU YOUDUN INTELLCTUAL PROPERTY AGENCY CO LTD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class(IPC 8–9)**:** E21B15/00 E21B21/01 E21B33/13 E21B4/00 E21B7/00 E21D1/00 E21D1/06 E21D1/08 E21D5/04 E21D7/00 (Advanced/Invention)

CPC: E21D5/04 E21D5/12 E21D1/00 E21B4/00 E21B7/00 E21B15/00 E21B21/01 E21B33/13 E21B7/203 E21B15/003 E21D1/06

US class: 175/86

Classification Explorer

Cited documents: WO02081865 A1, US4589502 A, SU1509534, JP2005090175 A2, DE29912658 U1, CN203742602 U, CN201961938 U, CN1525043 A, CN1151782 A, CN103924977 A, CN102472101 A, CN101503947 A,

Forward Citations: WO15127808, CN104727746, CN104389607, CN104389607, CN103924977, CN103924977,

Abstract:
Source: US2016369629A A center–pillared full–face shaft drilling machine comprises a center pillar (1), device platforms (2), a derrick (3), a driving system (4), a personnel and material conveying system (5), a well wall support and protection system (6), a safeguard system (7), and an operation chamber (8). The derrick (3) is mounted at a wellhead. The operation chamber (8) is disposed on the derrick (3). The center pillar directly leads from the well bottom to the wellhead and is connected to a slide rack comprised in the derrick on the ground. The driving system (4) is mounted at the front end of the center pillar (1) of a device. The multiple device platforms (2) are sequentially mounted on the center pillar (1) of the device from rear to front. The personnel and material conveying system (5) and the safeguard system (7) are separately mounted on the device platforms at the rear of the driving system (4) and on the ground. The well wall support and protection system (6) is mounted on the device platforms at the rear of the driving system (4) and around the driving system (4). The shaft drilling machine solves the construction problem of large shafts in mines and the like, implements parallel construction operations of automated mechanical integrated complete devices having a series of functions such as shaft driving, residue discharging, support and protection, drainage and ventilation, facilitates dismounting and mounting of the device, saves preparation time, improves the construction efficiency, reduces construction cost, improves construction safety, and has a wide application range.

0) US2016250912A – VERTICAL SEALING ARRANGEMENT BETWEEN DOORS WITH...

48) Family number: 60066164 (US2016250912A) © PatBase

Title: VERTICAL SEALING ARRANGEMENT BETWEEN DOORS WITHOUT SIDE PILLARS

Priority: BR20141002997 20140207 BR20141031763 20141218 WO2015BR00012 20150130
BR2014PI02997 20140207 BR2014PI03176 20141218 BR20141331763 20141218

Family:

Publication number	Publication date	Application number	Application date
AR103099 AA	20170419	AR2015P100349	20150206
BR102014002997 A2	20151208	BR20141002997	20140207
CA2927636 AA	20160415	CA20152927636	20150130
CN105899386 A	20160824	CN201580003569	20150130
CO16101181 A2	20170113	CO20160101181	20160421
EP3072722 A1	20160928	EP20150746675	20150130
EP3072722 A4	20170712	EP20150746675	20150130
IN201637013016 A	20160826	IN201637013016	20160413
JP2017505252 T2	20170216	JP20160523905T	20150130
KR20160119752 A	20161014	KR20167011375	20150130
MX2016009133 A1	20161013	MX20160009133	20150130
US2016250912 AA	20160901	US20150030482	20150130
WO15117211 A1	20150813	WO2015BR00012	20150130

Probable Assignee: FCA FIAT CHRYSLER AUTOMOVEIS BRASIL LTDA

Assignee(s):(std)**:** FCA FIAT CHRYSLER AUTOMOVEIS BRASIL LTDA ; FIAT AUTOMOVEIS S A

Assignee(s): FIAT AUTOMOVEIS SA ; PEREIRA MARCELO FERREIRA ; BICALHO GUILHERME FERREIRA SETTE ; BORGES FILHO AROLDO GASPAR ; DA SILVA ANDERSON SEIXAS MALTA

Inventor(s):(std)**:** ANDERSON SEIXAS MALTA DA SILVA ; AROLDO GASPAR BORGES FILHO ; BICALHO GUILHERME FERREIRA SETTE ; BORGES AROLDO GASPAR FILHO ; BORGES FILHO AROLDO GASPAR ; DA SILVA ANDERSON SEIXAS MALTA ; GUILHERME FERREIRA SETTE BICALHO ; MARCELO FERREIRA PEREIRA ; PEREIRA MARCELO FERREIRA ; SILVA ANDERSON SEIXAS MALTA DA

Agent(s): SARKIS MARCELO K; INES CONSUELO BENJUMEA RENDON; GERVASI GEMMA; OHNO SEIJI; ARIBONI FABBRI E SCHMIDT SOCIEDADE DE ADVOGADOS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** B60J10/00 B60J10/08 B60J10/15 B60J10/23 B60J10/235 B60J10/24 B60J10/248 B60J10/25 B60J10/32 B60J10/36 B60J10/80 B60J10/86 B60J5/00 B60R13/07 (Advanced/Invention)

CPC: B60J10/40 B60J10/248 B60J10/15 B60R13/07 B60Y2200/14 B60J10/25 B60J10/86 B60J10/23

US class: 296/154

Classification Explorer

Cited documents: WO04103749 A1, US6686020 BB, US6641205 BA, US5590926 A, US5527583 A, US4998946 A, US4492405 A, US2014223830 AA, US2013047519 AA, US2012023830 AA, US2010095599 AA, US2009070960 AA, US2007113482 AA, GB2398597 A1, EP1346864 A1, EP1031690 A1, DE4029091 A1, CN201712450 U,

Abstract:
Source: US2016250912A A vertical sealing arrangement to be used between doors of utility motor vehicles of

various types, such as pickups, trucks, SUVs, sedans, hatchbacks and the like with front and rear doors without the side pillar, the so−called B pillar, is formed by two mouldings, the top collector and the bottom discharger, which are interconnected by an extruded profile having at least one hollow longitudinal cavity the lumen of which interconnects−the inside volume of the collector to the inside volume of the discharger, thus defining a flow path for water and dust deposited on the upper part of the vehicle down to the lower part of the vehicle.

0) DE102015210511A1 – INNENVERKLEIDUNG FUER EIN KRAFTFAHRZEUG INTERI...

49) Family number: 61126426 (DE102015210511A1) © PatBase

Title:	INNENVERKLEIDUNG FUER EIN KRAFTFAHRZEUG INTERIOR TRIM FOR A MOTOR VEHICLE (Machine translation)
Priority:	DE201410211153 20140611 DE201510210511 20150609

Family:

Publication number	Publication date	Application number	Application date
DE102015210511 A1	20151217	DE201510210511	20150609

Probable Assignee:	VOLKSWAGEN AG
Assignee(s):(std)**:**	VOLKSWAGEN AG
Inventor(s):(std)**:**	KUTSCHERA THORSTEN ; SARACINO EGIDIO ; STASCH THOMAS
International class (IPC 8–9)**:**	B60R13/02 (Advanced/Invention)
CPC:	B60R13/025 B60R13/0206
Classification Explorer	
Cited documents:	DE102006038658 A1
	DE102005018833 A1

Abstract:
Source: DE102015210511A1 Die Erfindung betrifft eine Innenverkleidung fuer ein Kraftfahrzeug, umfassend ein als Abdeckung einer Saeule (2) einer Karosserie des Fahrzeugs ausgeformtes Verkleidungsteil (1, 1a), wobei das Verkleidungsteil (1) mittels zumindest eines Halteglieds (3a, 3b, 4, 8) an der Saeule (2) festlegbar ist, wobei das Halteglied an einem von beiden, Verkleidungsteil (1) oder Saeule (2), eine Aufnahme (4, 8) aufweist, in die ein an dem jeweils anderen von beiden ausgebildetes Hakenglied (3a, 3b) unter formschluessiger Verriegelung eingreift, wobei das formschluessige Verriegeln durch Verschieben des Verkleidungsteils (1, 1a) um einen Montagehub in einer Montagerichtung (M) hergestellt wird. The invention relates to an interior lining for a motor vehicle, comprising a cover of a column (2) of a body of the vehicle molded trim part (1, 1a), wherein the lining part (1) by means of at least one retaining member (3a, 3b, 4, 8) can be fixed on the column (2), wherein the retaining member at one of both covering part (1) or column (2), a receptacle (4, 8), in which a in the other of the two formed hook member (3a, 3b) engages under formschluessiger locking, wherein the locking formschluessige by moving the covering part (1, 1a) is prepared by a Montagehub in a mounting direction (M).

0) US2017232924A – FIRING MECHANISM

50) Family number: 57553532 (US2017232924A) © PatBase

Title: FIRING MECHANISM

Priority: GB20140013898 20140806 WO2015GB52254 20150804

Family:

Publication number	Publication date	Application number	Application date
CN106573593 A	20170419	CN201580042148	20150804
EP3177489 A1	20170614	EP20150749850	20150804
GB201413898 A0	20140917	GB20140013898	20140806
IN201717003345 A	20170623	IN201717003345	20170130
US2017232924 AA	20170817	US20150500935	20150804
WO16020669 A1	20160211	WO2015GB52254	20150804

Probable Assignee: MOOG CONTROLS LTD

Assignee(s):(std)**:** MOOG CONTROLS LTD

Inventor(s):(std)**:** BAKER MICHAEL

Agent(s): JONES JOHN BRYN; WITHERS AND ROGERS LLP ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60R21/01 B60R21/274 (Advanced/Invention)

CPC: B60R21/01 B60R2021/01286 B60R21/274

Classification Explorer

Cited documents: US4037358 A, JP2000237576 A2,

DE102011086186 A1

Abstract:
Source: US2017232924A A firing mechanism (**25**) for activation of a pneumatic stored energy system having a motor (**50**) connected to a vessel (**20**) by a tether, the vessel (**20**) containing a pressurised fluid. Activation of the motor (**50**) causes the tether to wind, applying a linear force to an attachment region of the vessel, fracturing the vessel (**20**) to release the pressurised fluid thereby activating the pneumatic stored energy system.

0) WO17009320A1 – DIVISION SET OF A CAR, ASSEMBLY OF THE DIVISION...

51) Family number: 64692620 (WO17009320A1) © PatBase

Title: DIVISION SET OF A CAR, ASSEMBLY OF THE DIVISION SET WITH A FRAMELESS WINDOW AND ANOTHER ADJACENT WINDOW OF A CAR, AND PROCESS FOR MANUFACTURING THE SET AND THE ASSEMBLY

Priority: EP20150176878 20150715

Family:

Publication number	Publication date	Application number	Application date
EP3118040 A1	20170118	EP20150176878	20150715
WO17009320 A1	20170119	WO2016EP66495	20160712

Probable Assignee: AGC GLASS EUROPE

Assignee(s):(std)**:** AGC GLASS EUROPE

Inventor(s):(std)**:** HICK ROBERT ; MUYLKENS PHILIPPE ; MACHACEK JIRI ; HYNEK ROMAN

Agent(s): CHABOU SAMIA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J10/00 B60J10/777 (Advanced/Invention)

CPC: B60J10/777 B60J10/18 B60J10/24 B60J10/77 B60J10/78

Classification Explorer

Cited documents: WO06067622 A1, US5261721 A, US2011109009 AA, JP1154014 U1, JP1154014 U, DE102010023984 A1

Abstract:
The invention relates to a division set (1) for sealing a first retractable frameless window (6) of a car (3) and a second window (2) of the car, adjacent to the first one (6), including a profile (9), to be secured to the second window (2), and a gasket (10) for sealing the two windows (2, 6). According to the present invention, the gasket (10) of a desired shape is (5) made of a TPE material encapsulated with the profile (9) of the division set (1).

0) DE102016009135A1 – TUERSYSTEM FUER EIN KRAFTFAHRZEUG UND VERFAHREN...

52) Family number: 64906956 (DE102016009135A1) © PatBase

Title: TUERSYSTEM FUER EIN KRAFTFAHRZEUG UND VERFAHREN ZUM BETREIBEN EINES TUERSYSTEMS DOOR SYSTEM FOR A MOTOR VEHICLE AND METHOD FOR OPERATING A DOOR SYSTEM (Machine translation)

Priority: DE201610009135 20160728

Family:

Publication number	Publication date	Application number	Application date
DE102016009135 A1	20170216	DE201610009135	20160728

Probable Assignee: DAIMLER AG

Assignee(s):(std)**:** DAIMLER AG

Inventor(s):(std)**:** KRISHNAMURTHY ARUN

International class (IPC 8–9): B60J10/86 B60J5/04 (Advanced/Invention)

CPC: B60J10/86 B60J5/0479 B60J10/244

Classification Explorer

Cited documents: DE102005007906 A1

Abstract:
Source: DE102016009135A1 Die Erfindung betrifft ein Tuersystem fuer ein Kraftfahrzeug (10), umfassend zumindest eine Vordertuer (12) und eine Hintertuer (14), welche an jeweiligen Fahrzeugsaeulen (16, 18) gegenlaeufig zwischen einer Offenstellung und einer Schliessstellung verschwenkbar gelagert sind; jeweiligen an der Vordertuer (12) und Hintertuer (14) angeordneten Tuerdichtungen (20, 22), welche sich in der Schliessstellung ueberlappen; eine Pumpvorrichtung, welche dazu ausgebildet ist, einen derartigen Unterdruck in zumindest einer der Tuerdichtungen (20, 22) herzustellen, dass die ueberlappung der Tuerdichtungen (20, 22) in der Schliessstellung aufgehoben wird, sobald anhand zumindest eines Kriteriums erfasst wird, dass zumindest eine der Tueren geoeffnet werden wird. Die Erfindung betrifft des Weiteren ein Verfahren zum Betreiben eines Tuersystems eines Kraftfahrzeugs 10. The invention relates to a door system for a motor vehicle (10), to at least a front door (12) and a back door (14), which each vehicle columns (16, 18) in opposite directions are mounted reverse swing bar between an open position and a closed position; (20, 22), which overlap the door seals on the front door (12) and back door (14) in the closed position; a pumping device that is trained to do so, a such low pressure in at least one of the door seals (20, 22) to produce, that overlap the door seals (20, 22) is repealed in the closed position when using at least a criterion, it is recorded that at least one of the doors will be opened. The invention also relates to a process for operating a door system of a motor vehicle 10

0) WO17064315A1 – ROTARY DAMPER AMORTISSEUR ROTATIF DREHDAEMPFE...

53) Family number: 65463145 (WO17064315A1) © PatBase

Title: ROTARY DAMPER

Priority: DE201510117594 20151015

Family:

Publication number	Publication date	Application number	Application date
DE102015117594 A1	20170420	DE201510117594	20151015
WO17064315 A1	20170420	WO2016EP74823	20161016

Probable Assignee: INVENTUS ENG GMBH

Assignee(s):(std)**:** INVENTUS ENG GMBH

Assignee(s): INVENTUS ENGINEERING GMBH

Inventor(s):(std)**:** BATTLOGG STEFAN

Agent(s): BSB INTELLECTUAL PROPERTY LAW

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61F2/60 F16F9/12 F16F9/53 (Advanced/Invention)

CPC: F16F9/535 F16F9/12

Classification Explorer

Cited documents: US2014152066 AA, US2013175132 AA, US2006016657 AA, US2004217568 AA, JP2009287639 A2, DE10320053 A1,

DE102013203331 A1

DE102013014158 A1

DE102010055833 A1

DE102009030995 A1

DE102005021945 B3

Abstract:
The invention relates to a rotary damper having a displacer device, said displacer device comprising a damper shaft (3) and displacer components (4, 5) engaging into one another, wherein a rotational movement of the damper shaft (3) can be damped. The displacer device contains a magnetorheological fluid as a working fluid. A magnetic field (10) of a magnetic field source having an electric coil (9) can be controlled by means of an associated control device. An end–side axial gap (25) is formed between the housing and the displacer device. An essential part of the magnetic field (10) of the magnetic field source passes through the axial gap (25) between the housing and the displacer components (4, 5). The magnetorheological fluid can be influenced by the magnetic field (10) in order to adjust a damping of the rotational movement of the damper shaft (3). The magnetic field (10) also causes a seal of the end–side axial gap (25).

0) DE102015220146A1 – VERFAHREN ZUM ABDECKEN EINER FENSTERSCHACHTOEFF...

54) Family number: 65461869 (DE102015220146A1) © PatBase

Title: VERFAHREN ZUM ABDECKEN EINER FENSTERSCHACHTOEFFNUNG, EIN ABDECKELEMENT UND EINE VORRICHTUNG ZUM AUSRICHTEN EINES POSITIONIERELEMENTES AN EINEM ABDECKELEMENT PROCEDURES TO COVER A WINDOW SHAFT OPENING, AN OFF−DECK ELEMENT AND A DEVICE FOR POSITIONING A POSITIONING ELEMENT ON AN OFF DECK ELEMENT (Machine translation)

Priority: DE201510220146 20151016

Family:

Publication number	Publication date	Application number	Application date
DE102015220146 A1	20170420	DE201510220146	20151016

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Inventor(s):(std)**:** DEMMEL THOMAS ; SCHRAGNER MARCUS ; STEIN JOHANN

International class (IPC 8–9)**:** B60J10/00 B60J10/75 B60R13/02 (Advanced/Invention)

CPC: B60J10/00 B60J10/75 B60R13/02 B60R13/04

Classification Explorer

Cited documents: DE3737212 A1, DE19934773 A1,

Abstract:
Source: DE102015220146A1 Die Erfindung betrifft Verfahren zum Abdecken einer oeffnung (22) eines Fahrzeuges (1) mit einem Abdeckelement (30) zumindest in einer Laengserstreckungsrichtung (X) der oeffnung (22), insbesondere bei einem Kraftfahrzeug, mit Schritten des (A) Bereitstellens von Positionsinformation einer ersten Position (51) einer ersten Positioniermarke (41) an der oeffnung (22), des (B) Ausmittelns der Erstreckung des Abdeckelementes (30) in der Laengserstreckungsrichtung (X) der oeffnung (22), des (C) Bestimmens einer zweiten Position (52) am Abdeckelement (30) aus der ausgemittelten Erstreckung des Abdeckelementes (30), des (D) Ausbildens einer zweiten Positioniermarke (42) am Abdeckelement (30) an der zweiten Position (52) und des (E) Anbringens des Abdeckelementes (30) an der oeffnung (22), wobei die zweite Positioniermarke (42) an der ersten Positioniermarke (41) ausgerichtet wird oder bleibt. The invention relates to methods for covering an opening (22) a (1) vehicle with a drop deck element (30) at least towards a longitudinal extension (X) the opening (22), in particular for a motor vehicle, with steps of (A) providing position information of a first position (51) a first position mark (41) at the opening (22), (B) using the extension of the deck element (30) towards the longitudinal extension (X) the opening (22), (C) determining a second position (52) on the cover element (30) from the averaged made extension of the cover element (30), of the (D) making a second positioning mark (42) on the cover element (30) at the second position (52) and (E) attaching the cover element (30) on the opening (22), and the second position mark (42) at the first position mark (41) is aligned or remains.

0) WO17178611A1 – BLOWING LANCE NOZZLE NEZ DE LANCE DE SOUFFLAGE...

55) Family number: 67243287 (WO17178611A1) © PatBase

Title: BLOWING LANCE NOZZLE

Priority: BE20160005263 20160415 BE20160005264 20160415 BE20160005387 20160525

Family:

Publication number	Publication date	Application number	Application date
WO17178606 A1	20171019	WO2017EP58973	20170413
WO17178608 A1	20171019	WO2017EP58977	20170413
WO17178611 A1	20171019	WO2017EP58981	20170413

Probable Assignee: SOUDOBEAM SA

Assignee(s):(std)**:** SOUDOBEAM SA

Inventor(s):(std)**:** THOMAS JEAN PHILIPPE

Agent(s): GEVERS PATENTS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): C21C5/32 C21C5/35 C21C5/46 F27B3/22 F27D3/16 (Advanced/Invention)

CPC: C21C5/4606 C21C2005/4626 C21C5/32 C21C5/35 F27B3/225 F27D2003/168

Classification Explorer

Cited documents: WO9623082 A1, WO0222892 A1, WO0071760 A1, US6234406 BA, US4432534 A, US3430939 A, US2014367499 AA, US2012211929 AA, US2007126162 AA, EP0340207 A1, DE19506718 A1,

DE102010034315 A1

DE102006010287 A1

Abstract:
Blowing lance nozzle comprising a central stirring gas–supply tube (2), an inner coolant–inlet tube (5), an outer coolant–outlet tube (10) closed, at one end facing the bath, by a third front wall (12) that has an inner surface (30) with a central region (14), a heat exchange space (16), a stirring gas–outlet pipe (17) leading from each opening (4) in the front wall (3), and a post (18) with a thinned–down portion (I) connected to the central region (14) of the inner surface (30) of the third front wall (12) and forming, with said central region (14), a continuous curved surface (19).

- **search:** SS3 FT=((seal* or strip) and car and collector) and IC=B60J (Results 93)
- List: SS3 1–25 (FT=((seal* or strip) and car and collector) and IC=B60J) (Results 93)

0) GB194183A – IMPROVEMENTS IN AND RELATING TO TRANSPARENT WIN...

1) Family number: 18406349 (GB194183A) © PatBase

Title: Improvements in and relating to transparent wind screens and the like

Priority: GB19220010927 19220419

Family:

Publication number	Publication date	Application number	Application date
GB194183 A	19230308	GB19220010927	19220419

Probable Assignee: ALBERT EDGAR STEEL

Assignee(s):(std)**:** ALBERT EDGAR STEEL

International class (IPC 8–9)**:** B60S1/54 (Advanced/Invention); B60S1/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/02

CPC: B60S1/54

European class: B60S1/54

Classification Explorer

Forward Citations: WO16205501,

Abstract:
Source: GB194183A 194,183. Steel, A. E. April 19, 1922. Windows, preventing condensation on. – A current of air is delivered on to a wind – screen and c. to remove moisture and c. by a funnel–shaped air scoop b secured by hooks c, the air passing through a narrow slit f at the base, and cross–currents being prevented by division and side plates g. A second deflector j may be applied at the base of the screen by means of an extension k. Drainage holes j<2> may be provided.

0) US2384769A – REAR WINDOW DEHYDRATOR FOR AUTOMOBILE BODIES

2) Family number: 21783861 (US2384769A) © PatBase

Title:	REAR WINDOW DEHYDRATOR FOR AUTOMOBILE BODIES
Priority:	US19440525471 19440307

Family:

Publication number	Publication date	Application number	Application date
US2384769 A	19450911	US19440525471	19440307

Probable Assignee:	GEORGE RAY
Assignee(s):(std):	GEORGE RAY
Inventor(s):(std):	GEORGE RAY
Inventor(s):	RAY GEORGE
International class (IPC 8–9):	B60S1/54 B60S1/56 (Advanced/Invention); B60S1/02 B60S1/56 (Core/Invention)
International class (IPC 1–7):	B60J1/20
CPC:	B60S1/54 B60S1/56
European class:	B60S1/54 B60S1/56
US class:	454/124 52/171.2

Classification Explorer

Forward Citations: US3730070,

Abstract:
Source: US2384769A 1. A dehydrator accessory adapted to be applied to an automotive body equipped with a transverse rear window pane that isiscrew lastened in place by an inner frame and further equipped with an apertured side tail window retained by an endless outer frame, said accessory comprising a relatively Rat air collector scoop disposedexteriorly alongside said tall window and having an outlet port delivering interiorlyof the body through the aperture of said tall window, means for afnxing said scoop to the tall window, a nozzle mounted to eject towardand along anllnner face region of the rear window pane, a saddle strap adlxed to the aforesaid inner frame by the screw fastenings thereof and serving to retain the nozzle in operative position. and a nexible conduit conveying collected air from said port for delivery through the nozzlef said strap further serving to retain in place the delivery end region of saidconduit. _

0) US2507287A – VENTILATOR DRIP SHIELD

3) Family number: 21642439 (US2507287A) © PatBase

Title:	VENTILATOR DRIP SHIELD
Priority:	US19490089647 19490426

Family:

Publication number	Publication date	Application number	Application date
US2507287 A	19500509	US19490089647	19490426

Probable Assignee:	AMELIA WERNER LOUISE
Assignee(s):(std):	AMELIA WERNER LOUISE
Inventor(s):(std):	AMELIA WERNER LOUISE
Inventor(s):	WERNER LOUISE AMELIA
International class (IPC 8–9):	B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)
International class (IPC 1–7):	B60J1/14
CPC:	B60J1/14
European class:	B60J1/14
US class:	296/154 454/134
Classification Explorer	
Cited documents:	US2486408 A, US2465345 A, US2390260 A, US2060109 A, US1849176 A,
Forward Citations:	US2692793, DE1247155,

Abstract:
Source: US2507287A (Claim 1) In a vehicle window for a vehicle having li5 spaced wall portions with a drain to the outside of said vehicle for water collecting between sai–d spaced wall portions, vrhich window comarises a no–draft ventilator having a window–palie Pivotal abolit a generally vertical axi–S inter– OU mediate its ends from a Closed –Dosition in the general plane of the entire wind–ow to an open position with the forward portion thereof extending into the vehicie and a posterior portion thereof extending outside the vehicle, the im– provement which cor–,iprises a rigid drip shield attached to the lower window frame flange for the purpose of separating out water carried by the air stream entering a moving vehicle through said no–draft ventilator, said drip shield com– prising a generally upstanding baffle surface, and means for drainitig water impinging on said baffle surface to the space between said spaced wall portions, said baffle surface being, spaced from the surface generated by the lower forward edges of the pivota win o pane as it is moved from closed to open position and having contours cut by vertical planes through said windo_v of a shade generally correspond;ng to the bottom and forward portion of said pivotal wi–ndowpare, spid up,standing baffle surface exterdiiig 'ilo,,;7ardly 5 along the windox opening substantially to the _upper pivot of the window pane and in a trai,,sverse direction inwordly of said vehicle from the re.–ion of the sealing edge of said pivotal windowpane when said pivotal windowpad–e is in th_– 1,,) closed Position to change the direction of the air stream entering into said vehicle and cause water carried along NviLb it to strike sa,–d baffe surface, the inner ed_.,e of said bafrie 3urface havirig a defl,,cting iip projecti_–ig rearwa–,,–,dly l r) from,,3aid baffle surface.

0) US3553833A – HEATED GLASS STRUCTURES

4) Family number: 21131275 (US3553833A) © PatBase

Title: HEATED GLASS STRUCTURES

Priority: BE19650662903 19650422 DE1964V016223U 19640423 DE1964V027114 19641109 DE1965V027765 19650212 DE1966C040691 19661114 US19720318115 19721226 US19670682173 19671113

Family:

Publication number	Publication date	Application number	Application date
BE662903 A	19651022	BE19650662903	19650422
BE706440 A	19680513		00000000
BE723544 A	19690507		00000000
BR6803924 A0	19730123	BR19680203924	19681112
CH466056 A	19681130	CH19670015880	19671114
CH482379 A	19691130	CH19680016941	19681113
CH483178 A	19691215	CH19680016940	19681113
DE1291647 B	19690327	DE1965V027765	19650212
DE1480445 B1	19691023	DE19641480445	19641109
DE1555053 B1	19700430	DE19661555053	19661114
DE1807643 A1	19690619	DE19681807643	19681107
DE1807643 B2	19701119	DE19681807643	19681107
DE1900484 U	19640910	DE1964V016223U	19640423
DK123199 B	19720523	DK19680005493	19681112
ES312177 A1	19660116	ES19650312177	19650423
ES347156 A2	19690116	ES19670347156	19671114
ES360197 A2	19701116	ES19680360197	19681113
FI52259 B	19770331	FI19680003246	19681113
FI52259 C	19770711	FI19680003246	19681113
FI52260 B	19770331	FI19680003247	19681113
FI52260 C	19770711	FI19680003247	19681113
FR1464585 A	19670106	FR19650010518	19650324
FR93853 E	19690530	FR19670127930	19671113
FR96087 E	19720519		00000000
GB1145367 A	19690312	GB19660030581	19660707
GB1209777 A	19701021	GB19670051819	19671114
GB1250202 A	19711020		00000000
NL156294 B	19780315	NL19670015459	19671114
NL168391 B	19811016	NL19680015837	19681107
NL6715459 A	19680515	NL19670015459	19671114
NL6815837 A	19690516	NL19680015837	19681107
NO123655 B	19711227	NO19680004483	19681112
NO130228 B	19740729	NO19670170497	19671113
SE326805 B	19700803	SE19670015636	19671114
SE368180 B	19740624	SE19680015109	19681107
US3553833 A	19710112		00000000
US3813519 A	19740528	US19720318115	19721226

Probable Assignee: SAINT GOBAIN

Assignee(s):(std)**:** SAINT GOBAIN ; CIE DE SAINT GOBAIN ; VER GLASWERKE GMBH

Assignee(s):

	CO DE SAINT GOBAIN ; CO DE SAINT GOBAIN FR ; COMPAGNIE DE SAINT GOBAIN ; GLASWERKE GMBH VER ; COMPAGNIE DE SAINT GOBAIN SOCIETE ANONYME NEUILLY SUR SEINE FRANKRIJK ; COMPAGNIE DE SAINT GOBAIN SOCIETE ANONYME TE NEUILLY SUR SEINE FRANKRIJK ; DE SAINT GOBAIN COMP ; DE SAINT GOBAIN SOC ANONYME NEUILLY SUR SEINE FRANKRIJK COMP ; DE SAINT GOBAIN SOC ANONYME TE NEUILLY SUR SEINE FRANKRIJK COMP ; VEREINIGTE GLASWERKE
Inventor(s):(std)	ACKER ROLF ; ACKER R ; HANS DIETER PEETZ ; HANS DIETER PEETZ DIPL ING ; HEINZ KARLA ; JOCHIM F ; KARLA HEINZ ; KARLA HEINZ GEORG ; LUERSSEN H ; LUERSSEN HERMANN ; NOWOCZYN H ; NOWOCZYN HANS WERNER ; NOWOZCYN DR HANS WERNER ; JOCHIM FRIEDRICH ; KARLA H ; NOWOZCYN H ; NOWOZCYN HANS DIETER DR ; PEETZ D ; PEETZ DIETER ; PEETZ DIPL ING HANS DIETER ; PEETZ H ; PEETZ HANS DIETER ; PUTZ H ; ROLF ACKER
Inventor(s):	PEETZ H DT ; PEETZ DIPL INGHANS DIETER ; PEETZ D DT ; NOWOZCYN H DT ; KARLA H DT ; NOWOZCYN DRHANS WERNER ; LUERSSEN H DT ; JOCHIM F DT ; HERMANN LUERSSEN ; HANS WERNER NOWOCZYN ; ACKER R DT ; DIETER PEETZ ; DIETER PEETZ HANS ; FRIEDRICH JOCHIM
International class (IPC 8–9):	B41F15/08 B41M1/12 B41M1/34 B41M5/00 B60J1/02 B60S1/02 B60S1/58 B64D15/12 B64D15/14 C03B23/02 C03C27/12 C09B23/08 C25D21/02 C25D21/12 G01R31/02 H01B1/16 H01C17/06 H01C17/075 H01C17/16 H01C17/24 H05B3/84 (Advanced/Invention); B41M1/12 (Advanced/Non–invention); B41F15/08 B41M1/12 B41M1/26 B41M5/00 B60J1/02 B60S1/02 B60S1/56 B64D15/00 C03B23/02 C03C27/12 C09B23/00 C25D21/00 C25D21/12 G01R31/02 H01B1/14 H01C17/06 H01C17/075 H01C17/22 H05B3/84 (Core/Invention); B41M1/12 (Core/Non–invention)
International class (IPC 1–7):	B60J1/00 B60J1/02 B60J1/20 B60S1/02 B64D15/12 C03C17/04 C03C17/08 C23B7/00 C25D3/00 E06B7/12 H01C17/00 H05B3/06 H05B3/12 H05B3/22 H05B3/26 H05B3/28
CPC:	Y10T29/49083 Y10T29/49099 Y10T29/49155 Y10T428/24479 Y10T428/24777 Y10T428/26 B60S1/586 C03B23/02 B41M5/00 B60J1/02 B60S1/026 H01B1/16 B64D15/12 B41F15/08 B41M1/12 B41M1/34 B64D15/14 C09B23/083 C25D21/02 C25D21/12 G01R31/026 H01C17/06 H01C17/075 H01C17/16 H01C17/24 H01C17/2412 H05B3/84 H05B2203/016 H05B2203/017
European class:	B41F15/08 B41M1/12 B41M1/34 B41M5/00 B60J1/02 B60S1/02B2 B60S1/58D B64D15/12 B64D15/14 C03B23/02 C09B23/08B C25D21/02 C25D21/12 G01R31/02C4 H01B1/16 H01C17/06 H01C17/075 H01C17/16 H01C17/24 H01C17/24E H05B3/84 L41M1/12 L64D700/62D5G4C T05B203/016 T05B203/017
US class:	101/126 101/128.4 219/203 219/52.2 219/522 219/543 29/611 29/620 29/846 338/217 338/309 428/156 428/192 428/332 428/426
Classification Explorer	
Cited documents:	US3634654 A, US3553833 A, US3532858 A, US3302002 A, US3288983 A, US2932710 A, US2777044 A, US2715668 A, US2513993 A, US2429420 A, DE644691 A, DE1029957 A, AT203645 B,
Forward Citations:	WO06063064, WO06059025, WO03011607, WO02100129, US9595768, US9573846, US9370048, US8278609, US7731373, US7652226, US7582833, US7362491, US7344059, US7053313, US6891134, US6640434, US6267630, US5824993, US5798499, US5716536, US5075535, US4971848, US4958560, US4920635, US4876178, US4874930, US4814586, US4752672, US4707586, US4582981, US4545339, US4455481, US4453669, US4450346, US4436575, US4419570, US4415196, US4396900, US4395622, US4315134, US4251316, US4246467, US4196338, US4137447, US4109133, US4035576, US4004126, US3995142, US3928748, US3912905, US3865680, US3852564, US3851581, US3851368, US3813519, US3673044, US3532858, US2016068272, US2014138155, US2013233842, US2013220682, US2012067641, US2011114631, US2011109115, US2010236608, US2010200293, US2009147360, US2008164248, US2007188842, US2007181565, US2006157462, US2006065435, US2005035090, US2004155026, US2004031146, KR101246303, KR100758255, JP54016182, JP49002596, GB2157137, FR2963311, FR2743973, FR2737075, FR2679384, FR2618264, FR2558652, FR2484397, FR2473243, FR2448335, FR2202423, FR2202423, FR2202422, FR2202422, EP3031671, EP1684546, EP1412198, EP0785700, EP0678750, EP0559035, EP0524113, EP0522907, EP0410839, EP0314053, EP0299868, EP0281351, EP0245092, EP0032139, DK154334, DE4333655, DE4333655, DE4129578, DE4120653, DE3828526, DE3645101, DE3604437, DE3004131, DE2632164, DE2411838, DE19735282, CN102470470, CN102470470, BE1014219,

Abstract:
Source: US3553833A 1,209,777. Stencilling. COMPAGNIE DE SAINT−GOBAIN. 14 Nov., 1967 [14 Nov., 1966], No. 51819/67. Addition to 1,145,367. Heading B6C. [Also in Division H5] The heatable glass sheet of the parent Specification has its resistance bands 2 initially deposited by a screen−printing process. The stencil is produced in the printing fabric by coating the fabric with a light−sensitive copying solution, which is exposed to light through a diapositive corresponding to the printed pattern, hardened in the areas exposed and washed out in the unexposed areas. The printing fabric is held with its threads at an angle of between 14 and 76 degrees, preferably 45 degrees, to the bands when printed. Since the meshes are either completely closed or fully open, the bands formed from this fabric have regularly spaced projections along their sides forming a sawtooth outline, Fig. 2. Since electrodeposition favours such projections, the reinforcing conductive coating thereafter formed is uniform. The fabric is adhered to a printing frame 10 with the threads running diagonally thereof and is evenly tensioned by pumping up a rubber tube (12) fitted in a channel 11 around the frame.

0) US3307095A – MOISTURE CONTROLLED MOTORS SYSTEM FOR CLOSING A...

5) Family number: 23774748 (US3307095A) © PatBase

Title: MOISTURE CONTROLLED MOTORS SYSTEM FOR CLOSING AUTOMOBILE WINDOWS AND TOPS

Priority: US19630307548 19630909 US19670618811 19670227

Family:

Publication number	Publication date	Application number	Application date
US3307095 A	19670228	US19630307548	19630909
US3386022 A	19680528	US19670618811	19670227

Probable Assignee: WILLIAM G REDMOND JR

Assignee(s):(std)**:** REDMOND JR WILLIAM G ; WILLIAM G REDMOND JR

Inventor(s):(std)**:** REDMOND WILLIAM G JR ; REDMOND JR WILLIAM G

Inventor(s): JR WILLIAM G REDMOND

International class (IPC 8–9)**:** B60J7/057 (Advanced/Invention); B60J7/04 (Core/Invention)

International class (IPC 1–7)**:** H02P7/00 H02P7/70

CPC: B60J7/0573 Y10T307/957

European class: B60J7/057B

US class: 200/61.05 307/141.4 318/471 318/483 318/484

Classification Explorer

Cited documents: US3214613 A, US2994525 A, US2901642 A, US2823346 A, US2802694 A, US2788482 A, US2754460 A, US2731588 A, US2640958 A, US2617972 A,

Forward Citations: US7071637, US6169379, US5955854, US5402075, US5321345, US4973844, US4908554, US4871917, US4810944, US4798956, US4527106, US4481450, US3794847, US3755636, US3624478, US3555289, US2004095084, FR2533175, EP0362322, EP0310153, EP0297225, EP0004970, DE2817297,

Abstract:
Source: US3307095A (Claim 1) 16, and insert instead the following claim: 12.

0) US3511186A – SUSPENDED RAILWAY CAR FLUIDICLY SUPPORTED

6) Family number: 24746375 (US3511186A) © PatBase

Title: SUSPENDED RAILWAY CAR FLUIDICLY SUPPORTED

Priority: CH19670000039 19670103 FR19650079989 19651014 FR19660046415 19660119 FR19670109425 19670607 FR19660079989 19661014

Family:

Publication number	Publication date	Application number	Application date
BE691888 A	19670529		19661228
BE715162 A	19680930		19680515
BR6786364 A0	19730628	BR19670186364	19670119
CH451993 A	19680515	CH19670000039	19670103
CH505721 A	19710415	CH19680007458	19680520
DE1580861 A1	19700423	DE19661580861	19661230
DE1580861 B2	19740815	DE19661580861	19661230
DE1580861 C3	19750417	DE19661580861	19661230
DE1580871 A1	19700723	DE1967B094934	19671013
DE1580871 B2	19770929	DE1967B094934	19671013
DE1580871 C3	19780524	DE1967B094934	19671013
DE1755608 A1	19720105	DE19681755608	19680528
ES335595 A1	19671201	ES19670335595	19670113
FR1474851 A	19670331	FR19660046415	19660119
FR91423 E	19680607	FR19660079989	19661014
FR93421 E	19690328	FR19670109425	19670607
GB1167621 A	19691015	GB19670000450	19670104
GB1198268 A	19700708	GB19670046780	19671013
GB1224334 A	19710310	GB19680023831	19680520
NL152798 B	19770415	NL19670000402	19670111
NL6700402 A	19670720	NL19670000402	19670111
NL6807480 A	19681209	NL19680007480	19680527
OA2287 A	19700505	OA19660052701	19661227
SE325916 B	19700713	SE19660017773	19661227
SU437266 D	19740725	SU19671130060	19670119
SU437266 T	19740725	SU19671130060	19670119
US3511186 A	19700512	US19680729211	19680515
US3534689 A	19701020	US19670003818	19671009

Probable Assignee: MAURICE BARTHALON PARIJS

Assignee(s):(std)**:** BARTHALON M ; BARTHALON MAURICE ; INOSTRANETS MORIS BARTALON

Assignee(s): MAURICE BARTHALON ; MAURICE BARTHALON PARIJS ; BARTHALON MAURICE PARIS

Inventor(s):(std)**:** INOSTRANETS MORIS BARTALON ; MAURICE BARTHALON ; BARTHALON M ; BARTHALON MAURICE

Inventor(s): BARTHALON MAURICE PARIS

International class (IPC 8–9)**:** B60J3/04 B60V3/04 B61B13/04 B61B13/08 B61B5/00 E01B25/08 E01B25/12 E01B25/22 E01B25/24 E01B25/26 (Advanced/Invention); B60J3/00 B60V3/00 B61B13/04 B61B13/08 B61B5/00 E01B25/00 (Core/Invention)

International class (IPC 1–7)**:** B60J3/04 B60V3/00 B60V3/04 B61B13/06 B61B13/08 B61B3/00 B61B3/02 B61B5/00 E01B

CPC: E01B25/08 B60J3/04 E01B25/24 B61B3/02 E01B25/26 B60V3/04 B61B13/04 B61B13/08 E01B25/12 E01B25/22

European class: B60J3/04 B60V3/04 B61B13/04 B61B13/08 E01B25/08 E01B25/12 E01B25/22 E01B25/24 E01B25/26

US class: 104/134 104/155 104/23.1 104/23.2 104/89 105/148 105/150 180/15 198/321 212/346

Classification Explorer

Cited documents: US3381541 A, US3233556 A, US3225228 A, US3167145 A, US3125964 A, US3106171 A, US2511979 A, US1698482 A,

Forward Citations: WO9423978, WO9208634, WO16109490, WO12061995, US9701319, US8783084, US8375865, US7124692, US7124692, US6708623, US6644209, US6279485, US5909710, US5669308, US5566620, US5542357, US5535963, US5460099, US5146854, US5020441, US4970967, US4970966, US4970964, US4970962, US4821647, US4698895, US4620358, US4102272, US4072109, US3971459, US3915093, US3872793, US3854403, US3841223, US3799061, US3797409, US3797398, US3738280, US3675582, US3631806, US3580181, US2015329097, US2012055367, US2011027057, US2007017410, US2006219124, US2004244633, US2004134373, JP56028901, JP53022283, JP52029089, JP51145191, ITMI20090804, GB2166102, FR2427427, FR2236705, FR2091929, EP0017856,

Abstract:
Source: US3511186A 1,224,334. Transporter systems; tracked hovercars. M. BARTHALON. 20 May, 1968 [7 June, 1967], No. 23831/68. Addition to 1,167,621 and 1,198,268. Headings B7K and B7L. The transporter system of parent Specifications comprising a powered car suspended from an overhead track beam by creating a subatmospheric pressure in lifting chambers formed between the car and the beam, is improved or modified in the following respects. The track beam 1 comprises adjustable wings 7 having projecting flanges 403 and the slide block 55 dovetails therein. The air extractor fans 427 extract air from a lifting chamber 420 and guide chambers 426 and discharge it through longitudinal nozzles 433 so as to impede the flow of air into the chambers 426. Lips are provided for sealing on each surface 411 of the slide block 55 and are equipped with friction shoes to engage the upper surface of each flange 403. The airconditioned car 9 is suspended from the slide block 55 by an evacuated springing chamber 408 communicating with the lifting chamber 420, and by hydropneumatic spring links 409. Successive slide blocks 55 are interconnected by flexible joints and successive cabins 9 by flexible bellows. The fans 427 may alternatively extract air directly from the guide chambers 426 (Fig. 10), and may be four in number, mounted on a frame 495 together with the windings 422 of the linear electric traction motor, the frame being spring−damper−mounted on the slide block. A points system (Fig. 13) joins a branch line 523 to a main line 522, 521, and comprises laterally pivotable side sections 526, 527 of the wings 524 and flanges 525, and a movable wing 537 rotatable about axis O by a pinion 544 meshing with a toothed section 545 movably housed in the beam 1, and guided by T−section slides 538, 539 sliding in grooves in the beam 1. In another embodiment, the points system comprises two wing sections (with flanges) connected to opposite ends of centrallypivoted cross−members which are oscillated by cranks on a shaft driven by a motor, so that the wing sections are retractable vertically and oppositely into slots in the beam 1 to set the points system in the two conditions. One of the wing sections is laterally pivotable as before. Each wing section is locked in working position by latches which engage in grooves in the interior of the beam 1 and which are on the end of a link joining the end of the cross−member to the wing section.

0) US3532858A – THERMAL WINDOW

7) Family number: 29863339 (US3532858A) © PatBase

Title: THERMAL WINDOW

Priority: FR19660076152 19660913

Family:

Publication number	Publication date	Application number	Application date
BE703734 A	19680311		19670911
BR6792852 A0	19731227	BR19670192852	19670912
CH463978 A	19681015	CH19670012712	19670912
DE6604663 U	19700129	DE19660004663U	19670819
ES344880 A1	19681101	ES19670344880	19670908
FR1527739 A	19680607	FR19660076152	19660913
GB1198674 A	19700715	GB19670041808	19670913
SE340574 B	19711122	SE19670012656	19670913
US3532858 A	19701006	US19670666796	19670911

Probable Assignee: SAINT GOBAIN

Assignee(s):(std)**:** DE SAINT GOBAIN COMP ; SAINT GOBAIN

Assignee(s): CIE DE SAINT GOBAIN ; CO DE SAINT GOBAIN ; COMPAGNIE DE SAINT GOBAIN ; DE SAINT GOBAIN CIE

Inventor(s):(std)**:** HANS DIETER PEETZ ; PEETZ H ; PEETZ HANS DIETER

International class(IPC 8–9)**:** B60J1/02 B60S1/02 B60S1/58 H05B3/84 (Advanced/Invention); B60J1/02 B60S1/02 B60S1/56 H05B3/84 (Core/Invention)

International class(IPC 1–7)**:** B60H B60J1/00 B60J1/02 B60S1/02 H05B3/06

CPC: B60J1/02 B60S1/026 B60S1/586 H05B3/84 H05B2203/016

European class: B60J1/02 B60S1/02B2 B60S1/58D H05B3/84 T05B203/016

US class: 219/203 219/522 219/543 338/328

Classification Explorer

Cited documents: US3315217 A, US3288983 A, US2977450 A, US2625640 A, US2513993 A, FR1464585 A, FR1264475 A,

Forward Citations: US8106332, US4450346, US4415196, US3813519, US2010112868, EP0009927, DE3004457,

Abstract:
Source: US3532858A ABSTRACT OF THE DISCLOSURE A thermal window is provided with a thermal grid of which the current–carrying bus is out of contact with the gasket which mounts the pane.

0) US3545806A – ELECTRIC CURRENT SUPPLY SYSTEMS

8) Family number: 423383 (US3545806A) © PatBase

Title: ELECTRIC CURRENT SUPPLY SYSTEMS

Priority: FR19670101645 19670405

Family:

Publication number	Publication date	Application number	Application date
DE1763109 A1	19710325	DE19681763109	19680404
DE1763109 B2	19730208	DE19681763109	19680404
DE1763109 C3	19730823	DE19671763109	19680404
FR1525314 A	19680517	FR19670101645	19670405
GB1187355 A	19700408	GB19680010729	19680305
US3545806 A	19701208	US19680709725	19680301

Probable Assignee: PEUGEOT

Assignee(s):(std): PEUGEOT ; RENAULT

Assignee(s): SOCIETE INDUSTRIELLE ET COMMERCIALE DES AUTOMOBILES PEUGEOT ; AUTOMOBILES PEUGEOT ; INDUSTRIELLE ET COMMERCIALE DES AUTOMOBILES PEUGEOT SOC ; REGIE NATIONALE DES USINES RENAULT ; REGIE NATIONALE DES USINES RENAULT BILLANCOURT ; REGIE NATIONALE DES USINES RENAULT BILLANCOURT HAUTS–DE–SEINE (FRANKREICH)

Inventor(s):(std): VENTRE PIERRE

Inventor(s): PIERRE VENTRE

International class (IPC 8–9): B60J7/057 H02G5/04 (Advanced/Invention); B60J7/04 H02G5/00 (Core/Invention)

International class (IPC 1–7): B60J7/00 B60J7/02 B60J7/04 B60L5/36 H01R41/00

CPC: B60J7/0573 H02G5/04

European class: B60J7/057B H02G5/04

US class: 191/22R 296/137 296/223

Classification Explorer

Forward Citations: US5520434, US5470126, US5154481, US4934753, US3981531, US3808383, FR2476730, FR2418112, EP0034965,

Abstract:
Source: GB1187355A 1,187,355. Couplings between relatively movable conducting parts. REGIE NATIONALE DES USINES RENAULT and AUTOMOBILES PEUGEOT. 5 March, 1968 [5 April, 1967], No. 10729/68. Heading H2E. Current is supplied to a motor (not shown), mounted on and driving the sliding–roof panel 4 of an automotive vehicle, by two or more pivoted collector–shoes 1 resiliently urged against current supply slide–bars 7 forming part of a fitting 8 secured to the fixed roof structure 12 of the vehicle. The collector shoes are pivoted on pins 2 housed in straps 3 carried by the panel, and are urged by hairpin springs 6 against the slide–bars 7. The slide–bars consist of spaced parallel metal strips secured to an insulating plate (11) firmly held in a metal frame 8 by the doubled–over edges (10) of the frame.

0) US3630305A – VEHICLE DOOR LOCK ARRANGEMENT

9) Family number: 285004 (US3630305A) © PatBase

Title: VEHICLE DOOR LOCK ARRANGEMENT

Priority: JP19680011120 19680223 JP19680011121 19680223 JP19680011122 19680223

Family:

Publication number	Publication date	Application number	Application date
DE1909926 A1	19691002	DE19691909926	19690224
FR2002548 A1	19691017	FR19690004691	19690224
GB1259487 A	19720105		19690224
US3630305 A	19711228	US19690801637	19690224

Probable Assignee: AISIN SEIKI

Assignee(s):(std)**:** AISIN SEIKI

Assignee(s): AISIN SEIKI CO LTD ; AISIN SEIKI COMPANY LTD ; AISIN SEIKI CY

Inventor(s):(std)**:** KAZAOKA KENICHI

Inventor(s): KENICHI KAZAOKA

International class(IPC 8–9)**:** E05B65/38 (Advanced/Invention); E05B65/36 (Core/Invention)

International class(IPC 1–7)**:** B60J5/00 B60K27/00 E05B65/00 E05B65/38

CPC: E05B77/50 Y10T70/65

European class: E05B77/50

US class: 180/113 180/289 70/264

Classification Explorer

Cited documents: US3357215 A, US3029892 A, US3019848 A, US2974742 A, US2936843 A, US2724451 A, US2314815 A,

Forward Citations: US9174597, US8332101, US5777546, US5743380, US4726203, US4719775, US4593544, US4346573, US3926460, US3830332, US3765502, US3695381, US2010268424, US2008269990, FR2426787,

Abstract:
Source: GB1259487A 1,259,487. Latches. AISIN SEIKI CO. Ltd. 24 Feb., 1969 [23 Feb., 1968 (3)], No. 9718/69. Heading E2A. In an automobile vehicle each of the doors is provided with a pressure responsive control cylinder 37 for selectively locking or unlocking the door, the space in each of said control cylinders being divided into a door locking chamber and a door unlocking chamber, two electromagnetically operated valves being provided in the circuit between a pressure source and the control cylinders for selective supply and interruption of supply of the pressure to said locking or unlocking chambers, the valves being controlled by any one of a plurality of electric switches. The pressure can be positive or negative (in a partial vacuum). In the construction shown the chambers 37a and 37b of the control cylinders 37 are connected via the electromagnetically operated valves to a vacuum reservoir 33 which is itself connected via a check valve means 137 and a pipe 110 to the induction manifold of the vehicle engine. Each of the valves 31 is connected to a plunger 30 of a solenoid 27 or 28 the valves 31 being biassed onto their seats 109 by springs 32 when the solenoid coils 29 are not energised. As shown three switches 11, 17 and 21 are provided for controlling the solenoids each switch being a three position switch having a central off position, a position in which the door unlocking solenoid 28 are energised and a position in which the door locking solenoids are energised; the switch 11 is fitted to the driver's door of the vehicle and is operated by a key; the switch 17 is fitted to the front passenger's door of the vehicle and again is operated by means of a key and the switch 21 is provided inside the vehicle either on the instrument panel or on an armrest of the driver's door. For each door the locking mechanism is part of a lockable latch mechanism which as shown in Fig. 3 has a support bracket having two panel members 44a, 44b at right angles, the panel member 44a carrying a gear bolt (not shown) which is connected via a shaft 45a with a ratchet wheel 45; the ratchet wheel is engaged by a tooth 48 of a pawl 46 to hold the ratchet wheel of the gear bolt in the latching position and the pawl has an extension arm 49 which is engaged by the forked end portion of a lever 50, the lever 50 being biassed by a spring 50 in the direction to hold the pawl in engagement with the ratchet wheel. From the inside of the door the pawl 49 is raised to release the ratchet wheel by means of a link 63; the link 63 is connected by means of a pivot to a bell crank lever 66 which is connected via a rod 121 to the inside door handle; pivoting the bell crank lever 66 raises the link 63 which in turn engages the extension 49 of the pawl 46. The link 63 can also be raised by means of a lever 72 which is pivoted to the panel member 44a and which intermediate its ends is connected to a link 73 which in turn is

connected to the outside door handle. The link 63 has a pin and slot connection with a lever 64 which is pivotally carried by the panel member 44b and in one position the lever 64 holds the link 63 so that its end portion is in engagement with the pawl 46 and in another position of the lever 64 the link is disposed so that its end portion cannot engage the pawl 46; the latter position is the locking position. The lever 64 is moved between its two positions by a three armed lever 57 which is pivotally mounted on the panel member 44b and one of whose arms 61 engages the lever 64; another arm 60 is connected to the diaphragm 41 of the control cylinder by a rod 42 so that the control cylinder can move the link 63 between its two positions to place the latch mechanism in the locking and unlocking conditions. The arm 60 is also connected via a rod 62 with a locking button on the inside of the door so that the door can be locked manually. The third arm of the lever is engaged by a lever 53 which is pivotally carried on the panel member 44a and which is connected to the key locking mechanism disposed on the outside of the door enabling the door to be locked and unlocked manually from the outside. In addition the lever 53 is operatively connected with the outside door switch unit 11 or 17 as the case may be through a pin and slot connection 112. In a modification when the vehicle has rear doors the lever 53 is omitted. In a modification of the circuit, the circuit to the switch 21 is completed via the ignition switch and in addition the lead of the switch which goes to the locking solenoid is completed via a switch controlled by the gear shift lever so that when the vehicle is in top gear the doors are automatically locked. A modification of this arrangement is also described in which instead of the switch being controlled by the gear shift lever it consists of the contacts of a relay which is part of a transistorised circuit which includes a switch connected to the speedometer drive cable which produces a series of pulses when the vehicle is in motion, the pulses controlling the transistorised circuit so that when the vehicle is in motion the doors are locked and when the vehicle stops the doors become unlocked automatically.

0) US3575491A – DECREASING RESPONSE TIME OF LIQUID CRYSTALS

10) Family number: 368059 (US3575491A) © PatBase

Title: DECREASING RESPONSE TIME OF LIQUID CRYSTALS

Priority: US19680768145 19681016

Family:

Publication number	Publication date	Application number	Application date
DE1952023 A1	19700903	DE19691952023	19691015
DE1952023 B2	19741107	DE19691952023	19691015
FR2020860 A1	19700717	FR19690035504	19691016
GB1288598 A	19720913		19691010
US3575491 A	19710420	US19680768145	19681016

Probable Assignee: RCA CORP

Assignee(s):(std): RCA CORP

Assignee(s): RCA CORP NEW YORK N Y V ST A

Inventor(s):(std): HARRY HEILMEIER GEORGE ; HEILMEIER GEORGE H ; HEILMEIER GEORGE HARRY

Inventor(s): HEILMEIER GEORGE HARRY YARDLEY PA V ST A ; GEORGE H HEILMEIER

International class (IPC 8–9): G02F1/133 (Advanced/Invention); G02F1/13 (Core/Invention)

International class (IPC 1–7): B60J3/00 G02B5/00 G02F1/03 G02F1/13 G02F1/16 G02F1/28 G09F9/30

CPC: G02F1/13306

European class: G02F1/133D

US class: 349/116 349/33 359/228

Classification Explorer

Forward Citations: WO8701468, US8119974, US8047664, US8042958, US7884888, US7868278, US7810937, US7755019, US7750283, US7659495, US7637622, US7477330, US7232988, US7180047, US7061462, US7026593, US6884987, US6881939, US6841772, US5751258, US5444232, US5252817, US5248880, US4958915, US4794925, US4750814, US4728173, US4698668, US4493531, US4005928, US3892493, US3842411, US3815982, US3794990, US3781865, US3748018, US3747323, US3747322, US2010328752, US2010053541, US2009300810, US2009276931, US2009190050, US2009079886, US2008308714, US2007145234, US2007081250, US2006285330, US2006203148, US2005253057, US2005122440, US2005057544, US2004178326, JP48104433, GB2214474, EP0550384, EP0531504, EP0027518, DE3411048,

Abstract:
Source: GB1288598A 1288598 Modulating light RCA CORPORATION 10 Oct 1969 [16 Oct 1968] 49804/69 Heading B7J [Also in Division H4] To produce dynamic scattering in a liquid crystal at a rate greater than that obtainable with the minimum electric field Eg necessary to give substantially maximum scattering, and yet to avoid degradation of the crystal by high fields, a field substantially greater than Eg is applied for a fraction of a second (10 ms.) and then decreased to E 0, e.g. as indicated by the full (D.C.) or dashed (60 Hz) lines in Fig. 2. The time between the leading edge of the turnon pulse and the state of maximum scattering may thus be reduced e.g. from 10 milliseconds to less than 500 microseconds. In Fig. 3 (not shown) wherein the crystal may be used as a light shutter, e.g. in a car or aircraft windscreen, when a photocell detects oncoming headlights or a flare or bomb burst, of above a predetermined light intensity, a trigger circuit is actuated to produce a pulse 50. The pulse is applied to a turn–on circuit, such as shown in Fig. 6, whose output is as shown in Fig. 2, to close the shutter. The trigger may be reset manually, or automatically when the light intensity drops below a fixed level. It is also stated that the trigger may be omitted. In Fig. 6, the pulse 50 is differentiated at 52, 54, 56 to give a waveform similar to that of Fig. 2 which controls the conduction of a transistor 84 of an A.C. voltage from a source 92. The voltage developed across a resistor 90 is applied to a liquid crystal and capacitor in series. In Fig. 4 (not shown), the crystal is placed directly in parallel with the resistor 56 of the differentiating circuit, while in Fig. 5 (not shown), the differentiated pulse controls an FET so as to vary a D.C. field across the crystal.

0) US3792232A – ELECTRICALLY HEATED WINDOW

11) Family number: 1042459 (US3792232A) © PatBase

Title: ELECTRICALLY HEATED WINDOW

Priority: DE19712148243 19710928

Family:

Publication number	Publication date	Application number	Application date
AT327422 B	19760126	AT19720008222	19720925
AT822272 A	19750415	AT19720008222	19720925
BE789359 A1	19730327	BE19720122481	19720927
CH561998 A	19750515	CH19720014087	19720927
DE2148243 A1	19730405	DE19712148243	19710928
ES407042 A1	19751101	ES19720407042	19720927
FR2154587 A1	19730511	FR19720033983	19720926
FR2154587 B1	19761029	FR19720033983	19720926
GB1365785 A	19740904	GB19720044610	19720927
IT975097 A	19740720	IT19720070045	19720927
JP48043009 A2	19730622	JP19720096662	19720928
LU66174 A	19730402	LU19720066174	19720927
NL7213042 A	19730330	NL19720013042	19720927
US3792232 A	19740212	US19720292807	19720927

Probable Assignee: KINON GLAS SPIEGEL

Assignee(s):(std)**:** KINON GLAS SPIEGEL ; SAINT GOBAIN

Assignee(s): SAINT GOBAIN IN STRIES ; SAINT GOBAIN IND VECTOR HUGO FR ; SAINT GOBAIN IND ; SAINT GOBAIN INDUSTRIES ; SAINT GOBAIN INDUSTRIES 62 BOULEVARD VICTOR HUGO F 92209 NEUILLY SUR SEINE FRANCE ; GLAS UND SPIEGELMANUFAKTUR N KINON GMBH 5100 AACHEN

Inventor(s):(std)**:** ZARENKO A ; ZARENKO ALEX

Inventor(s): ZARENKO ALEX 5103 BRAND ; ZARENKO A DT ; GLAS UND SPIEGELMANUFAKTUR N KINON G M B H

International class (IPC 8–9)**:** B60S1/02 C03C17/06 C03C27/12 H05B3/86 (Advanced/Invention); B60S1/02 C03C17/06 C03C27/12 H05B3/84 (Core/Invention)

International class (IPC 1–7)**:** B32B17/00 B60J1/00 B60S1/02 C03C27/00 C03C27/12 H05B3/00 H05B3/06 H05B3/20 H05B3/26 H05B3/28

CPC: B32B17/10036 B32B17/10376 B32B17/10761 B60S1/026 H05B3/86

European class: B32B17/10C4 B32B17/10E32 B32B17/10G28 B60S1/02B2 H05B3/86

US class: 219/203 219/52.2 219/522 219/541

Classification Explorer

Cited documents: US3484583 A, US3440408 A, US3414713 A, US3313920 A, US3287684 A, US2878357 A, US2813960 A, US2503457 A, US2395152 A, GB164435 A, FR1544718 A, FR1288186 A, DE1912667 A1, CH462641 A,

Forward Citations: US8563899, US8399814, US7211768, US6734396, US6559419, US6011244, US5182431, US4876178, US4874930, US4791276, US4707586, US4659913, US4645912, US4582983, US4209687, US4137447, US4119425, US4109044, US4065848, US3947618, US3928748, US3892947, US2011233182, US2011109115, US2009188904, US2009107987, US2007137141, US2006086714, GB2372927, EP0788295, EP0788294, EP0560677, EP0122071, EP0058445, DE4121102, DE102007001080,

Abstract:
Source: US3792232A A heavy−duty heated window is constructed with a series of heating units each of which has a plurality of heating elements in parallel.

0) US3934111A – APPARATUS FOR HEATING A WINDOW

12) Family number: 25925864 (US3934111A) © PatBase

Title: APPARATUS FOR HEATING A WINDOW

Priority: FR19730005468 19730216

Family:

Publication number	Publication date	Application number	Application date
AR200906 A1	19741227	AR19740252284	19740211
AT124174 A	19760815	AT19740001241	19740215
AT336412 B	19770510	AT19740001241	19740215
AU197465603 A1	19750814	AU19740065603	19740214
BE811126 A1	19740816	BE19740140997	19740215
BR7401125 A	19751014	BR19740001125	19740215
CA998083 A1	19761005	CA19740192803	19740218
CH600728 A	19780630	CH19740002161	19740215
CS204980 B2	19810430	CS19740001166	19740218
DD110598 A	00000000	DD19740176627	00000000
DD110598 C	19741220	DD19740176627	19740218
DE2406836 A1	19740822	DE19742406836	19740213
DE2406836 B2	19790510	DE19742406836	19740213
DE2406836 C3	19800103	DE19742406836	19740213
DK142740 B	19810105	DK19740000820	19740215
DK142740 C	19810810	DK19740000820	19740215
ES423330 A1	19760501	ES19740423330	19740216
FI58222 B	19800829	FI19740000412	19740213
FI58222 C	19801210	FI19740000412	19740213
FR2218710 A1	19740913	FR19730005468	19730216
FR2218710 B1	19760430	FR19730005468	19730216
GB1449325 A	19760915	GB19740006525	19740213
IN138709 A	19760320	IN1974CA00318	19740214
IT1007692 A	19761030	IT19740020914	19740408
JP50007229 A2	19750124	JP19740018441	19740215
LU69396 A	19741001	LU19740069396	19740215
NL7402095 A	19740820	NL19740002095	19740215
NO142568 B	19800602	NO19740000509	19740215
NO142568 C	19800910	NO19740000509	19740215
SE387814 B	19760913	SE19740002036	19740215
SE387814 C	19761223	SE19740002036	19740215
US3934111 A	19760120	US19740442831	19740215
ZA7400978 A	19750129	ZA19740000978	19740214

Probable Assignee: SAINT GOBAIN

Assignee(s):(std)**:** VER GLASWERKE GMBH ; SAINT GOBAIN INDUSTRIES ; SAINT GOBAIN INDUSTRIES FR ; SAINT GOBAIN IND ; GLASWERKE GMBH VER ; SAINT GOBAIN

Assignee(s): VEREINIGTE GLASWERKE GMBH ; SAINT GABAIN INDUSTRIES ; ROSELLI SERGIO ; SAINT COBAIN IND ; GLASWERKE GMBH 5100 AACHEN VER ; SAUER GERD ; SAINT GABAIN IND ; SAINT GOBAIN IND FR ; VEREINIGTE GLASWERKE GMBH 5100 AACHEN

Inventor(s):(std)**:** GERD SAUER ; ROSELLI S ; ROSELLI SERGIE ; ROSSELI S ; SAUER G ; SAUER GERD ; ROSELLI SERGIO ; SAUER GERD DIPL ING ; SERGIO ROSELLI

Inventor(s):

SERGIO ROSELLI AND GERD SAUER ; ROSELLI SERGIO PISA ITALIEN ; SAUER GERD DE ; ROSELLI SERGIE IT

International class (IPC 8–9): B60S1/02 E06B7/12 G05D22/02 G05D27/02 H05B1/02 H05B3/84 (Advanced/Invention); B60S1/02 (Advanced/Non–invention); B60S1/02 E06B7/00 G05D22/00 G05D27/00 H05B1/02 H05B3/84 (Core/Invention)

International class (IPC 1–7): B60H1/22 B60J1/00 B60J1/02 B60J1/18 B60J1/20 B60R1/00 B60R18/04 B60S1/02 B60S1/56 B64D15/20 E06B7/12 G05B11/32 G05D23/00 G05D23/19 G05D27/02 H05B1/02 H05B3/26

CPC: H05B1/0236 H05B3/84 G05D22/02 G05D27/02 H05B2203/035

European class: G05D22/02 G05D27/02 H05B3/84 H05B3/84P T05B203/035

US class: 15/250.001 15/250.05 219/203 219/219 219/491 219/522 340/522 340/602 52/171.2

Classification Explorer

Cited documents: US3749885 A, US3540655 A, US3200705 A, US3194960 A, US2557905 A, US2049321 A, JP49105813 A2,

Forward Citations: WO08019272, WO08019272, US7416331, US7331531, US7028531, US6886351, US6834509, US6653606, US6627851, US6359265, US5808777, US5610756, US5496989, US5057666, US4956542, US4693172, US4506137, US4395622, US4387290, US4347444, US4319485, US4135078, US4032745, US2008028697, US2006203879, US2006202044, US2006011596, US2004050076, US2004050072, JP54147934, JP54115834, GB2325993, FR2764258, FR2421589, EP1318697, EP0314454, DE3836559, DE3513157, DE3215802, DE2622932, CN104470010, CN104470010,

Abstract:
Source: US3934111A A grid of heating conductors for defrosting applied to the window of a vehicle is connected to a source of electrical energy through a relay–operated switch. This switch is closed either in response to a drop in the resistance between two conductors or electrodes mounted in spaced relation on an insulating support such as the window (the drop occurring by accumulation of moisture on the support and between the conductors) or in response to a drop in temperature at or near the window. For this purpose the resistance between the two conductors over the surface of the support may be paralleled by a thermostatic switch which closes with drop in temperature, both this resistance and the thermostatic switch being in the input to a trigger circuit controlling the relay to energize it in response to a decline in resistance at that input. Alternatively the trigger circuit may include thermistors which sense the drop in temperature and set the trigger circuit to the condition which energizes the relay.

0) US3995142A – DEFOGGING REAR WINDOW PANE FOR MOTOR VEHICLES

13) Family number: 1229335 (US3995142A) © PatBase

Title: Defogging rear window pane for motor vehicles

Priority: IT19730050890 19730618 IT19730050890 19730618

Family:

Publication number	Publication date	Application number	Application date
BE816066 A1	19740930	BE19740145201	19740607
DE2428108 A1	19750102	DE19742428108	19740611
DE2428108 B2	19760520	DE19742428108	19740611
DK154334 B	19881107	DK19740003198	19740614
DK154334 C	19890417	DK19740003198	19740614
DK319874 A	19750303	DK19740003198	19740614
FR2233487 A1	19750110	FR19740020707	19740614
FR2233487 B1	19761015	FR19740020707	19740614
GB1477489 A	19770622	GB19740024718	19740604
IE39713 B	19781220	IE19740001279	19740618
IE39713 L	19741218	IE19740001279	19740618
IT985711 A	19741220	IT19730050890	19730618
LU70338 A	19741017	LU19740070338	19740617
NL7407794 A	19741220	NL19740007794	19740611
US3995142 A	19761130	US19740477362	19740607

Probable Assignee: SIV SOC ITALIANA VETRO

Assignee(s):(std)**:** ITALIANO VETRO SIV S P A SOC ; SIV SOC ITALIANA VETRO ; VETRO SLV SOC IT SPA ; VETRO SLV S P A SOC IT

Assignee(s): SOCIETA ITALIANO VETRO SIV S P A ; SOCIETA ITALIANA VETRO SLV S P A ; SOC ITALIANA VETRO S I V SPA ; SOC ITALIANA VETRO SIV SPA ; SOCIETA ITALIANA VETRO SIV S P A ; ITALIANA VETRO SIV S P A ; ITALIANA VETRO SIV S P A SOCIETA ; ITALIANA VETRO SIV SPA ; ITALIANA VETRO SIV SPA IT

Inventor(s):(std)**:** BUONCRISTIANI I ; BUONCRISTIANI IVANO ; CIARDELLI U ; CIARDELLI UMBERTO ; VASTO CHIETI ITALIEN

Inventor(s): IVANO BUONCRISTIANI ; UMBERTO CIARDELLI

International class (IPC 8–9): B60S1/58 H05B3/84 (Advanced/Invention); B60S1/56 H05B3/84 (Core/Invention)

International class (IPC 1–7): A47L1/16 B60J1/00 B60J1/02 B60J1/18 B60J1/20 B60S1/02 E06B7/12 H05B3/00 H05B3/06 H05B3/10 H05B3/26

CPC: B60S1/586 H05B3/84 H05B2203/016

European class: B60S1/58D H05B3/84 T05B203/016

US class: 219/203 219/522 219/541 219/543 219/547 338/322 52/171.2

Classification Explorer

Cited documents: US3813519 A, US2827538 A, US2526327 A, US2052527 A, FR1544718 A, FR1464585 A,

Forward Citations: US9731580, US9642187, US9579955, US9475364, US9242533, US9174515, US8938914, US8915018, US8881458, US8402695, US6014840, US6011244, US5824993, US5798499, US5716536, US5288973, US4993774, US4854636, US4137447, US2010236608, JP58033550, GB2192023, GB2192023, FR2706724, FR2468272, FR2424684, EP0939580, EP0630170, DE3740593,

Abstract:
Source: US3995142A A defogging and defrosting rear window pane for motor vehicles has a plurality of spaced heating elements embedded therein. A relatively short metallic collector having a circular segment configuration is provided in each peripheral side of the window pane at opposite margins thereof. The central heating element

extends between the collectors in a rectilinear path. Additional heating elements above and below the central element have a rectilinear central portion parallel to the central element and are connected to the collectors by end portions converging on the respective collectors. The respective collectors have an appendix extending outwardly beyond the window weatherstripping to serve as a terminal for connection to a power source.

0) US3995140A – ELECTRICALLY HEATED WINDOW

14) Family number: 7266004 (US3995140A) © PatBase

Title: ELECTRICALLY HEATED WINDOW

Priority: FR19730013288 19730412 FR19740007909 19740308 US19740459103 19740408 US19760699879 19760625

Family:

Publication number	Publication date	Application number	Application date
AT304474 A	19780315	AT19740003044	19740411
AT346715 B	19781127	AT19740003044	19740411
AU197467727 A1	19751016	AU19740067727	19740410
BE813622 A1	19741011	BE19740143121	19740411
BR7402886 A0	19750107	BR19740002886	19740410
CA1005844 A1	19770222	CA19740197316	19740410
CH589524 A	19770715	CH19740005088	19740411
CS219864 B2	19830325	CS19740002674	19740412
DD111333 C	19750212	DD19740177858	19740411
DE2417017 A1	19741031	DE19742417017	19740408
DE2417017 B2	19760930	DE19742417017	19740408
DE2417017 C3	19770518	DE19742417017	19740408
DK139746 B	19790409	DK19740002025	19740410
DK139746 C	19790924	DK19740002025	19740410
ES425101 A1	19760516	ES19740425101	19740408
FI59687 B	19810529	FI19740001126	19740411
FI59687 C	19810910	FI19740001126	19740411
FR2225609 A1	19741108	FR19730013288	19730412
FR2225609 B1	19760521	FR19730013288	19730412
FR2263368 A2	19751003	FR19740007909	19740308
FR2263368 B2	19780324	FR19740007909	19740308
GB1458092 A	19761208	GB19740015977	19740410
IN140205 A	19760925	IN1974CA00832	19740411
IT1011737 A	19770210	IT19740068171	19740411
JP1135666 C3	19830214	JP19740040464	19740412
JP50009608 A2	19750131	JP19740040464	19740412
JP57027855 B4	19820612	JP19740040464	19740412
LU69841 A	19741121	LU19740069841	19740411
NL176062 B	19840917	NL19740004977	19740411
NL176062 C	19850218	NL19740004977	19740411
NL7404977 A	19741015	NL19740004977	19740411
NL7404977 A1	19741015	NL19740004977	19740411
NO143263 B	19800929	NO19740001335	19740410
NO143263 C	19810211	NO19740001335	19740410
SE393731 B	19770516	SE19740004919	19740410
SE393731 C	19770825	SE19740004919	19740410
SU820653 A4	19810407	SU19742018660	19740404
SU820653 S	19810407	SU19742018660	19740404
US3995140 A	19761130	US19740459103	19740408
US4135078 A	19790116	US19760699879	19760625
ZA7402333 A	19750730	ZA19740002333	19740411

Probable Assignee:	SAINT GOBAIN
Assignee(s):(std)**:**	SAINT GOBAIN ; GLASWERKE GMBH VER ; VER GLASWERKE GMBH
Assignee(s):	GLASWERKE GMBH 5100 AACHEN VER ; KUIFF SIEGFRIED ; SAINT GOBAIN INDUSTRIES FR ; SAINT GOBAIN IND ; SAINT GOBAIN INDUSTRIES ; SEN GOBEN ENDYUSTRI FA ; SAINT GOBAIN INDUSTRIES SOCIETE ANONYME TE NEUILLY ; SEN GOBEN ENDYUSTRI FIRMA ; SAINT GOBAIN IND FR ; SAINT GOBAIN INDUSTRIES SOCIETE ANONYME TE NEUILLY SUR SEINE FRANKRIJK ; UEBERWOLF HEINZ ; SAINT GOBAIN IND SOC ANONYME TE NEUILLY SUR SEINE FRANKRIJK ; VEREINIGTE GLASWERKE GMBH 5100 AACHEN
Inventor(s):(std)**:**	UEBERWOLF HEINZ ; UEBERWOLFF H ; UEBERWOLFF HEINZ ; YUBERVOLFF G ; KUIFF S ; KUIFF SIEGFRIED ; KUIFF SIEGFRIED DIPL ING
Inventor(s):	S KUIFF ; SIEGFRIED KUTU AND HEINZ UEBERWOLFF ; 5120 HERZOGENRATH ; H UEBERWOLFF ; UEBERWOLFF HEINZ DE ; SIEGFRIED KUIFF ; KUIFF SIEGFRIED DE ; HEINZ UEBERWOLFF ; G YUBERVOLFF FR
International class (IPC 8–9)**:**	B60J1/00 B60S1/02 E06B7/12 G01N27/04 H05B3/26 H05B3/84 H05K1/16 (Advanced/Invention); B60J1/00 B60S1/02 H05K1/16 (Advanced/Non–invention); B60J1/00 B60S1/02 G01N27/04 H05B3/84 H05K1/16 (Core/Invention)
International class (IPC 1–7)**:**	B60H1/22 B60J1/00 B60J1/02 B60J1/18 B60J1/20 B60S1/58 C03C27/00 E06B7/00 E06B7/12 G01N19/10 G01N27/06 G01N27/12 H01H29/00 H05B1/02 H05B3/00 H05B3/20 H05B3/26 H05K1/02
CPC:	H05B1/0236 H05B3/84 H05B2203/035 G01N27/048
European class:	G01N27/04E H05B3/84 H05B3/84P T05B203/035
US class:	200/61.05 219/203 219/509 219/522 219/547 338/35 340/602 340/604 52/171.2 73/73
Classification Explorer	
Cited documents:	US3983527 A, US3934111 A, US3832527 A, US3794847 A, US3649898 A, US3555289 A, US2407215 A, JP49032685 U, JP49031965 U, JP47034708 A2, JP47020841 A2, JP47013876 U,
Forward Citations:	WO17077128, USRE33343, USRE32218, US9420640, US9108591, US8927911, US8870394, US7231727, US5821501, US5780719, US5653904, US4940317, US4565919, US4530456, US4378484, US4361751, US4323726, US4127763, US2014061183, US2011017487, US2008061933, US2007181565, US2003150129, RU2532667, RU2505948, JP62085601, GB2185578, GB2185578, FR2313239, DE102006029406,

Abstract:
Source: US3995140A An electrically heated window for a vehicle includes a smooth surfaced transparent sheet having a plurality of spaced electric resistance heating conductors on the surface thereof. A humidity detector is provided on the inside surface of the sheet and includes two sets of conductors standing in relief above the surface of the sheet and each having substantially the shape of a comb with the teeth of the two combs interdigitated and extending substantially in the direction of maximum slope of the sheet. The back of the upper comb defines a gutter for the diversion of water droplets from the area occupied by the teeth of the combs.

0) US4032745A – CONTROL SYSTEM FOR VEHICLE WINDOW HEATER

15) Family number: 1261548 (US4032745A) © PatBase

Title: CONTROL SYSTEM FOR VEHICLE WINDOW HEATER

Priority: FR19740013650 19740419 FR19740028506 19740820 US19750568997 19750417 FR19750017091 19750602

Family:

Publication number	Publication date	Application number	Application date
AR207037 A1	19760909	AR19750258359	19750101
AT299075 A	19771215	AT19750002990	19750418
AT345111 B	19780825	AT19750002990	19750418
AT376863 B	19850110	AT19760003967	19760531
AT396776 A	19840515	AT19760003967	19760531
AU197614504 A1	19771208	AU19760014504	19760601
AU497166 B2	19781207	AU19760014504	19760601
BE828121 A1	19751020	BE19750155556	19750418
BE842460 A1	19761201	BE19760167536	19760601
BR7603437 A	19770215	BR19760003437	19760531
CA1010100 A1	19770510	CA19750225057	19750421
CA1079337 A1	19800610	CA19760253892	19760602
CH605212 A	19780929	CH19750005009	19750418
CH611097 A	19790515	CH19760006868	19760601
CS214661 B2	19820528	CS19760003541	19760527
CS222215 B2	19830527	CS19750002716	19750418
DD118770 C	19760312	DD19750185550	19750418
DD124373 C	19770216	DD19760193070	19760528
DE2517087 A1	19751106	DE19752517087	19750418
DE2517087 B2	19790118	DE19752517087	19750418
DE2517087 C3	19790927	DE19752517087	19750418
DE2517088 A1	19760304	DE19752517088	19750418
DE2517088 B2	19760902	DE19752517088	19750418
DE2517088 C3	19770407	DE19752517088	19750418
DE2622932 A1	19761216	DE19762622932	19760521
DK168675 A	19751020	DK19750001686	19750418
DK240876 A	19761203	DK19760002408	19760601
ES436772 A1	19770116	ES19750436772	19750419
ES448437 A1	19770701	ES19760448437	19760601
FI60477 B	19810930	FI19750001175	19750418
FI60477 C	19820111	FI19750001175	19750418
FI63647 B	19830331	FI19760001533	19760531
FI63647 C	19830711	FI19760001533	19760531
FI751175 A	19751020	FI19750001175	19750418
FI761533 A	19761203	FI19760001533	19760531
FR2268425 A1	19751114	FR19740013650	19740419
FR2268425 B1	19771014	FR19740013650	19740419
FR2282358 A1	19760319	FR19740028506	19740820
FR2282358 B1	19761231	FR19740028506	19740820
FR2313239 A1	19761231	FR19750017091	19750602
FR2313239 B1	19780901	FR19750017091	19750602

GB1480193 A	19770720	GB19750015688	19750416
GB1520975 A	19780809	GB19760022291	19760528
IN144790 A	19780708	IN1975CA00867	19750429
IT1037465 A	19791110	IT19750022543	19750421
IT1068114 A	19850321	IT19760023847	19760601
JP1184665 C3	19840120	JP19750046585	19750418
JP51010818 A2	19760128	JP19750046585	19750418
JP51147828 A2	19761218	JP19760063009	19760601
JP58015452 B4	19830325	JP19750046585	19750418
LU75064 A	19770307	LU19760075064	19760601
NL7504637 A	19751021	NL19750004637	19750418
NL7605833 A	19761206	NL19760005833	19760531
NO143186 B	19800915	NO19750001402	19750418
NO143186 C	19801229	NO19750001402	19750418
NO148807 B	19830912	NO19760001851	19760601
NO148807 C	19831221	NO19760001851	19760601
NO751402 A	19751021	NO19750001402	19750418
NO761851 A	19761203	NO19760001851	19760601
PL108420 B1	19800430	PL19750179774	19750419
PT65155 A	19760601	PT19760065155	19760531
PT65155 B	19771013	PT19760065155	19760531
SE408516 B	19790611	SE19750004466	19750417
SE408516 C	19790920	SE19750004466	19750417
SE7504466 A	19751020	SE19750004466D	19750417
SE7606182 A	19761203	SE19760006182D	19760601
SU716519 D	19800215	SU19752128777	19750418
SU934902 A4	19820607	SU19762359444	19760525
SU934902 S	19820607	SU19762359444	19760525
US4032745 A	19770628	US19750568997	19750417
US4127763 A	19781128	US19760692141	19760602
ZA7502289 A	19760331	ZA19750002289	19750410

Probable Assignee: SAINT GOBAIN

Assignee(s):(std)**:** SAINT GOBAIN ; GLASWERKE GMBH VER ; VER GLASWERKE GMBH

Assignee(s): SEN GOBEN ENDYUSTRI FA ; SEN GOBEN ENDYUSTRI FIRMA ; SAINT GOBIAN INDUSTRIES ; SAINT GOBAIN INDUSTRIES SOCIETE ANONYME TE NEUILLY SUR SEINE FRANKRIJK ; SAINT GOBAIN INDUSTRIES TE NEUILLY SUR SEINE FRANKRIJK ; SAINT GOBIAN IND ; ROSELLI SERGIO ; SAINT GABAIN IND ; SAINT GABAIN INDUSTRIES ; SAINT GOBAIN INDUSTRIES ; SAINT GOBAIN IND ; SAINT GOBAIN INDUSTRIES FR ; SAINT GOBAIN IND NEUILLY SUR SEINE FRANKRE ; SAINT GOBAIN IND FR ; SAINT GOBAIN INDUSTRIES NEUILLY SUR SEINE FRANKREICH ; SAINT GOBAIN IND NEUILLY SUR SEINE FRANKREICH ; SAINT GOBAIN IND SOC ANONYME TE NEUILLY SUR SEINE FRANKRIJK ; SAINT GOBAIN IND TE NEUILLY SUR SEINE FRANKRIJK ; VEREINIGTE GLASWERKE GMBH 5100 AACHEN ; GLASWERKE GMBH 5100 AACHEN VER

Inventor(s):(std)**:** RESELLI S ; ROSELLI M ; ROSELLI M SERGIO ; ROSELLI S ; ROSELLI SERGIO ; ROSELLL S ; ROZELLI SERGIO ; ROZELLI SERZHIO ; SAUER GERD ; SAUER GERD DIPL ING ; SERUJIO ROSERI

Inventor(s): SERZHIO ROZELLI IT ; GERD SAUER ; M SERGIO ROSELLI ; SERGIO ROSELLI ; SERGIO ROZELLI IT ; S ROSELLI ; ROSELLI SERGIO IT ; ROSELLI SERGIO PISA ITALIEN ; ROSELLI M SERGIO IT ; ROSELLI MSERGIO IT

Agent(s): CALLINAN AND ASSOCIATES RICHMOND

International class (IPC 8–9): B60J1/00 B60J1/06 B60S1/02 B60S1/58 E06B7/12 G05D22/02 H05B1/02 H05B3/20 H05B3/84 (Advanced/Invention);

	B60H1/22 B60S1/02 (Advanced/Non−invention); B60J1/00 B60J1/02 B60S1/02 B60S1/56 G05D22/00 H05B1/02 H05B3/84 (Core/Invention); B60H1/22 (Core/Non−invention)
International class (IPC 1−7):	B60H1/22 B60J1/00 B60J1/06 B60J1/18 B60J1/20 B60S1/00 B60S1/02 B60S1/54 B60S1/58 C03C23/00 E06B7/12 G01M G01N25/68 G01N27/02 G01N27/12 G05B G05B11/32 G05F1/00 H01C H05B1/02 H05B3/20 H05B3/26
CPC:	Y10S15/15 H05B1/0236 B60S1/586 H05B3/84 G05D22/02 H05B2203/035
European class:	B60S1/58D G05D22/02 H05B3/84 H05B3/84P T05B203/035
US class:	15/250.05 15/DIG.15 200/61.05 219/203 219/491 219/508 219/509 219/522 219/547 318/483 338/35 340/602 340/604 52/171.2 73/73
Classification Explorer	
Cited documents:	US4048469 A, US3995140 A, US3968342 A, US3934111 A, US3916367 A, US3902040 A, US3891958 A, US3705375 A, US3696360 A, US3139085 A, US3056935 A, LU69841 A, JP48023811 A2, JP47013876 U, GB1321221 A, FR2127059 A5, DE2458154 A1, DE2406836 A1, BE823136 A1,
Forward Citations:	WO9737288, WO9003903, USRE35762, US9533656, US9420640, US9003595, US8925620, US8870394, US8550147, US8461495, US7731373, US7265323, US7241964, US7053343, US7028531, US7002115, US6853305, US6834547, US6653606, US6521868, US6144017, US6037573, US6032324, US5957384, US5852284, US5821501, US5780719, US5751071, US5672976, US5668478, US5663542, US5449885, US5386111, US5216226, US5040411, US4942349, US4897585, US4665351, US4361751, US4350978, US4323726, US4224565, US4132881, US2014061183, US2014026600, US2011109115, US2009147360, US2005269312, US2005115954, US2005072455, US2004232117, US2004195233, US2003222663, RU2505948, RU2474766, RU2468940, JP54074820, JP52127912, EP1029726, EP0890143, EP0169642, EP0083149, DE4041160, DE3513157, DE19821123, DE102011121921, DE102006054938,

Abstract:
Source: US4032745A Apparatus for controllably heating a vehicle window having a heating grid is described including an oscillator and a signal detector, with a signal circuit coupling the oscillator and the signal detector having a DC voltage component at one or more points thereof. One or more humidity detectors are coupled to the signal circuit to control the amplitude of the oscillations supplied from the oscillator to the signal detector, advantageously by voltage divider action, and capacitor means provides DC isolation between the humidity detector(s) and any DC voltage component in the signal circuit, and also between humidity detectors when a plurality are used. Advantageously the humidity detector(s) are directly connected to the heating grid, and varying DC voltage levels at the point(s) of connection to the grid are isolated by the capacitor means. Particular arrangements of the humidity detectors on the window and connections to the heating grid are described.

16) Family number: 1827389 (US4351016A) © PatBase

Title: DEVICE FOR ARRESTING THE MOTION OF A MOTOR DRIVEN PANEL

Priority: CA19800361568 19801002 DE19792939942 19791002

Family:

Publication number	Publication date	Application number	Application date
BR8006348 A	19810414	BR19800006348	19801002
CA1169949 A1	19840626	CA19800361568	19801002
DE2939942 A1	19810409	DE19792939942	19791002
DE2939942 C2	19860109	DE19792939942	19791002
EP0026719 A1	19810408	EP19800401393	19801002
EP0026719 B1	19840606	EP19800401393	19801002
ES495585 A0	19810616	ES19800495585	19801002
ES495585 A2	19810630	ES19800495585	19801002
ES8105903 A1	19810901	ES19800495585	19801002
JP56108481 A2	19810828	JP19800138207	19801002
PT71858 A	19801001	PT19800071858	19800930
PT71858 B	19810629	PT19800071858	19800930
US4351016 A	19820921	US19800192889	19801001
YU250180 A	19820831	YU19800002501	19801001

Probable Assignee: SAINT GOBAIN VITRAGE

Assignee(s):(std): GLASWERKE GMBH VER ; SAINT GOBAIN VITRAGE ; FHN VERBINDUNGSTECHNIK GMBH

Assignee(s): FHN VERBINDUNGSTECHNIK GMBH 8501 ECKENTAL DE ; GLASWERKE GMBH 5100 AACHEN DE VER ; FELBINGER WILLY ; VEREINIGTE GLASWERKE GMBH 5100 AACHEN DE ; SAINT GOBAIN VITRAGE S A ; SAINT GOBAIN VITRAGE A FRENCH CO ; SAINT GOBAIN VITRAGE SA

Inventor(s):(std): BUIRII FUERUBINGAA ; FELBINGER W ; FELBINGER WILLY

Inventor(s): NICHTNENNUNG ANTRAG AUF ; VERZICHT DES ERFINDERS AUF NENNUNG ; WILLY FELBINGER

Agent(s): GOUDREAU GAGE DUBUC

Designated states: BE FR GB IT SE

International class (IPC 8–9): B60J1/20 E05F15/00 E05F15/16 E05F15/20 G05B9/02 (Advanced/Invention); E05F15/00 E05F15/16 G05B9/02 (Core/Invention)

International class (IPC 1–7): B60J1/20 E05F15/00 E05F15/02 E05F15/16 E05F15/20 G05B9/02 H01H47/12 H01H67/00 H02P7/00

CPC: E05F15/46 E05Y2900/55

European class: E05F15/00B6F P05Y900/550

US class: 318/266 318/286 318/466 361/181 49/27 49/28

Classification Explorer

Cited documents: US3815005 A, US3764861 A, US3651389 A, US3624473 A, GB2013428 A1, FR2415711 A1, FR2111514 A5, FR2073975 A5, DE2934401 A1,

Forward Citations: WO9409240, WO0136772, WO0079085, US9417099, US9234979, US9033394, US8493081, US7504943, US6972575, US6962228, US6777958, US6750624, US6724324, US6723933, US6701673, US6700393, US6515441, US6469524, US6389752, US6337549, US6169379, US6043620, US5955854, US5621290, US5605429, US5545961, US5402075, US5203110, US5023529, US4983896, US4952855, US4943757, US4908554, US4810944, US4631461, US4621223, US4571884, US4458446, US4458445, US4453112, US4422521, US4410843, US2014041302, US2011169513, US2007095595, US2007022819, US2004112662,

US2003011225, US2002154039, JP60095088, GB2282848, GB2282848, FR2534306, EP1612822, EP0061970, EP0061409, DE4239609, DE29803365,

Abstract:
Source: US4351016A Apparatus is disclosed for arresting the motion of a motor driven panel wherein an electrical conductor along an exposed edge of the panel is connected to an electrical sensing circuit. The presence of an object in contact with the electrical conductor is sensed by the sensing circuit, which then operates a switching device. The switching device disconnects drive power to the motor, preventing motion of the panel for as long as the object is in contact with the electrical conductor.

0) US4328451A – DEVICE FOR CONTROLLING THE ELECTRIC DRIVE MOTOR...

17) Family number: 1805449 (US4328451A) © PatBase

Title: DEVICE FOR CONTROLLING THE ELECTRIC DRIVE MOTOR OF A WINDOW RAISER IN PARTICULAR IN AN AUTOMOBILE VEHICLE

Priority: FR19790016694 19790628

Family:

Publication number	Publication date	Application number	Application date
DE3025116 A1	19810108	DE19803025116	19800630
DE3025116 C2	19900802	DE19803025116	19800630
ES493263 A0	19810416	ES19800493263	19800627
ES493263 A2	19810514	ES19800493263	19800627
ES8104850 A1	19810716	ES19800493263	19800627
FR2460383 A1	19810123	FR19790016694	19790628
FR2460383 B1	19830930	FR19790016694	19790628
GB2051946 A1	19810121	GB19800020842	19800625
GB2051946 B2	19830511	GB19800020842	19800625
IT1209806 A	19890830	IT19800068014	19800627
IT8068014 A0	19800627	IT19800068014	19800627
US4328451 A	19820504	US19800163236	19800625
YU168280 A	19831031	YU19800001682	19800627
YU44315 B	19900630	YU19800001682	19800627

Probable Assignee: ECIA EQUIPMENTS ET COMPOSANTS POUR L INDUSTRIE AUTOMOBILE

Assignee(s):(std)**:** PEUGEOT ACIERS ET OUTILLAGE

Assignee(s): PEUGEOT ACIERS OUTILLAGE ; ECIA EQUIPMENTS ET COMPOSANTS POUR L'INDUSTRIE AUT ; ECIA EQUIPMENTS ET COMPOSANTS POUR L'INDUSTRIE AUTOMOBILE ; ACIERS ET OUTILLAGE PEUGEOT ; ACIERS ET OUTILLAGE PEUGEOT A FRENCH BODY CORPORAT ; ACIERS ET OUTILLAGE PEUGEOT A FRENCH BODY CORPORATE ; ACIERS ET OUTILLAGE PEUGEOT AUDINCOURT FR ; ECIA EQUIPMENTS ET COMPOSANTS POUR L INDUSTRIE AUT ; ECIA EQUIPMENTS ET COMPOSANTS POUR L INDUSTRIE AUTOMOBILE ; ECIA EQUIPMENTS ET COMPOSANTS POUR L''INDUSTRIE AU

Inventor(s):(std)**:** BARGE JEAN ; BARGE JEAN A ; BAROE J ; BEANTRAGT NICHTNENNUNG

Inventor(s): JEAN BARGE ; VERZICHT DES ERFINDERS AUF NENNUNG

International class (IPC 8–9)**:** E05F15/16 H02P7/00 (Advanced/Invention); E05F15/00 E05F15/20 (Advanced/Non–invention); E05F15/16 H02P7/00 (Core/Invention); E05F15/00 E05F15/20 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/00 B60J1/17 E05F15/16 G05B11/18 G05B19/02

CPC: E05F15/00 E05Y2400/52 E05Y2201/41 E05Y2201/422 E05Y2201/434 E05Y2400/525 E05Y2400/57 E05Y2400/854 E05Y2400/86 E05Y2800/254 E05Y2900/55 E05F15/41 E05F15/695 E05F15/72 H02P7/03 E05F15/40

European class: E05F15/00B1 E05F15/16C3 H02P7/00E P05F15/20C P05Y201/41 P05Y201/422 P05Y201/434 P05Y400/525 P05Y400/57 P05Y400/86 P05Y800/252 P05Y900/550

US class: 318/265 318/266 318/267 318/466 318/469 318/470 318/596 318/599 318/663 318/667 318/684 49/28 49/31

Classification Explorer

Cited documents: US4072268 A, US3743912 A, US3624473 A, US2640958 A, GB1198439 A, DE7819547 U, DE2824510 A1, DE2654802 A1, DE2305731 A1, DE1070941 A,

Forward Citations: US8242736, US8080961, US7362068, US7282817, US7023161, US6989643, US6966149, US6859004, US6820369, US6759817, US6640494, US6434885, US6427749, US6274993, US6145252, US6085825, US6072290, US6060794,

US5483135, US5285137, US5023529, US5004961, US4977360, US4931714, US4900994, US4631461, US4608637, US4575662, US4562387, US4394605, US2010032980, US2009251080, US2007151158, US2007125000, US2006284486, US2006028162, US2005160675, US2005017667, US2004187391, US2004111970, US2004056623, US2004036430, US2002171384, FR2557049, FR2505919, EP2309088, EP1369987, EP1369987, EP1030427, EP0931899, EP0921256, EP0898039, EP0898039, EP0889192, EP0889192, EP0149940, EP0064929, DE3433204, DE3401864, DE3348489, DE3324107,

Abstract:
Source: US4328451A The device comprises for each window an electric driving motor and a selector which is adapted to ensure the selective supply of current to the motor, in one direction or the other, through a control circuit acting on a supply source. The supply source is of the type capable of delivering at least two distinct energy levels. The control circuit comprises means for applying to an input of the supply source an energy level control signal which produces, as a function of the position of the selector, the application of a torque to the motor when raising the window which is higher than the torque applied when descending the window.

0) US4395622A – TRANSPARENT HEATING PANE

18) Family number: 1943278 (US4395622A) © PatBase

Title: TRANSPARENT HEATING PANE

Priority: CA19810368049 19810107 FR19800000278 19800108 US19810223107 19810107

Family:

Publication number	Publication date	Application number	Application date
BR8100068 A	19810721	BR19810000068	19810107
CA1173881 A1	19840904	CA19810368049	19810107
DE3170078 D1	19850530	DE19813170078	19810108
EP0032139 A2	19810715	EP19810400014	19810108
EP0032139 A3	19810729	EP19810400014	19810108
EP0032139 B1	19850424	EP19810400014	19810108
ES498373 A0	19811101	ES19810498373	19810108
ES8200200 A1	19820101	ES19810498373	19810108
FR2473243 A1	19810710	FR19800000278	19800108
FR2473243 B1	19840120	FR19800000278	19800108
JP1969727 Y	19940124	JP19900072356U	19810108
JP3022030 U1	19910306	JP19900072356U	19900709
JP4035401 Y2	19920821	JP19900072356U	19900709
JP56109846 A2	19810831	JP19810000812	19810108
US4395622 A	19830726	US19810223107	19810107
US4436575 A	19840313	US19820419504	19820917

Probable Assignee: SAINT GOBAIN VITRAGE

Assignee(s):(std)**:** SAINT GOBAIN VITRAGE

Assignee(s): SAINT GOBAIN VITRAGE INT ; SAINT GOBAIN VITRAGE LES MIROIRS 18 AVENUE D ALSAC ; SAINT GOBAIN VITRAGE LES MIROIRS 18 AVENUE D"ALSA ; SAINT GOBAIN VITRAGE LES MIROIRS ; DRAN MAURICE ; INT GOBAIN VITRAGE LES MIROIRS 18 AVENUE ; JAMET BERNARD

Inventor(s):(std)**:** BERUNAARU JIYAME ; DRAN M ; DRAN MAURICE ; JAMET B ; JAMET BERNARD ; MORISU DORAN

Inventor(s): MAURICE DRAN ET BERNARD JAMET

Agent(s): GOUDREAU GAGE DUBUC

Designated states: BE DE GB IT LU NL SE

International class (IPC 8–9)**:** A01K61/00 A01K61/02 A01K63/04 B60J1/00 B60S1/02 C03C27/12 H05B3/02 H05B3/84 (Advanced/Invention); A01K61/00 A01K61/02 A01K63/04 B60J1/00 B60S1/02 C03C27/12 H05B3/84 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00 B60R1/06 B60S1/02 B64D15/12 C03C27/00 C03C27/12 E06B7/12 H05B3/02 H05B3/06 H05B3/26 H05B3/28

CPC: Y10T29/49083 B32B17/10376 B32B17/10036 B32B17/10761 H05B3/84 H05B2203/016 H05B2203/031

European class: B32B17/10C4 B32B17/10E32 B32B17/10G28 H05B3/84 T05B203/016 T05B203/031

US class: 156/361 156/391 156/433 219/203 219/522 219/544 219/547 244/134D 29/611

Classification Explorer

Cited documents: US4209687 A, US3964959, US3934111 A, US3910809, US3900634 A, US3874330 A, US3832527 A, US3813519 A, US3778898, US3752348 A, US3673044 A, US3590371 A, US3392759 A, JP54146821 A2, JP51009786 A2, JP50150712 A2, JP50028964 A2, GB1145367 A, FR846195 A, FR1464585 A,

Forward Citations: US8042598, US7731373, US7200921, US7195053, US6914224, US6011244, US5886321, US5877473, US5708251, US5653903, US5188687, US4970376,

US4552611, US2009147360, US2008223842, US2008121355, US2007281049, US2006174476, US2005241784, US2005178512, US2005139330, US2005121153, US2005098277, US2004188042, US2004159645, JP4143142, JP2005538688, JP10006929, EP2063685, EP0788295, EP0788294, EP0773705, DE19541427, DE102007028755, CN103200718,

Abstract:
Source: US4395622A A heating glass plate (15, 20, 27, 34) has a heating network (17, 24, 31, 36) made up of wires embedded in a thermoplastic layer following curved directrices. A device for making a heating glass plate having a plate (39) for supporting thereon a plastic sheet. A bridge (44) is slidably supported on the plate and has thereon a sliding carriage (45) carrying wire−laying members (46). Means are provided for imparting reciprocal motion to the carriage. A rod (51) connects the carriage to a vertical spindle (52).

0) US4425021A – GLASS MOUNTED ELECTRICAL TERMINAL

19) Family number: 19196742 (US4425021A) © PatBase

Title: GLASS MOUNTED ELECTRICAL TERMINAL

Priority: IT19800049388 19800731 IT19800049388 19800731

Family:

Publication number	Publication date	Application number	Application date
DE3172612 D1	19851114	DE19813172612	19810729
EP0045727 A1	19820210	EP19810830135	19810729
EP0045727 B1	19851009	EP19810830135	19810729
ES268200 U	19830516	ES19810268200U	19810722
ES268200 Y	19831201	ES19810268200U	19810722
IT1128556 A	19860528	IT19800049388	19800731
IT8049388 A0	19800731	IT19800049388	19800731
US4425021 A	19840110	US19810285651	19810721

Probable Assignee: SIV SOC ITALIANA VETRO

Assignee(s):(std)**:** ITALIANA VETRO SIV SOC SPA ; SIV SOC ITALIANA VETRO ; SOCIETA ITALIANA VETRO SIV S P A

Assignee(s): VETRO SIV S P A SOC IT ; VETRO SIV SOC IT SPA ; SOC ITALIANA VETRO SIV SPA

Inventor(s):(std)**:** MUZIO NICOLINI ; NICOLINI MUZIO ; NICOLINO MUZIO

Designated states: BE DE FR GB NL

International class (IPC 8–9)**:** H01R4/02 H05B3/08 H05B3/84 (Advanced/Invention); H01R4/02 H05B3/06 H05B3/84 (Core/Invention)

International class (IPC 1–7)**:** B60J B60S1/58 H01R4/02 H01R4/10 H01R4/58 H05B3/26

CPC: Y10S439/917 H05B3/84 H01R23/10 H05B2203/016

European class: H01R23/10 H05B3/84 T05B203/016

US class: 219/543 339/275T 339/278T 439/874 439/917

Classification Explorer

Cited documents: US4246467, US4091267 A, US4023008 A, US3981556 A, US3634654, US3534148 A, GB751536 A, GB1163224 A, FR2260880 A1, FR1527738 A, FR1104595 A, EP0023121 A1,

Forward Citations: WO15067951, US7816627, US7296347, US7059884, US6790104, US6551150, US6406337, US6267630, US5897406, US5543601, US5208444, US2012067641, US2007193138, US2005221657, US2004237302, FR2670070, EP0488878, EP0374648,

Abstract:
Source: US4425021A A device for electrically connecting the source of electric power and conductors of a defroster for rear window in automobiles, comprising a plate to be welded on the collector of the defroster and a tail for connection to the power source, staggered with respect to the plane of the plate and having a portion of reduced transversal section. The plate is provided with holes and recesses which allow a welded connection with the conductor, so as to withstand stresses due to deformation possibly caused during the operation of assembling the electrical connections (Fig. 1).

0) DE3028445A1 – SICHERHEITSEINRICHTUNG FUER MOTORISCH BEWEGTE S...

20) Family number: 1979810 (DE3028445A1) © PatBase

Title: SICHERHEITSEINRICHTUNG FUER MOTORISCH BEWEGTE SCHLIESSTEILE SAFETY CIRCUIT FOR MOTOR–DRIVEN SIDE WINDOW OF VEHICLE – SWITCHES MOTOR OFF WHEN END MICROSWITCH AND SAFETY SWITCH ARE OPERATED

Priority: DE19803028445 19800726

Family:

Publication number	Publication date	Application number	Application date
DE3028445 A1	19820211	DE19803028445	19800726
DE3028445 C2	19840913	DE19803028445	19800726

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Assignee(s): BAYERISCHE MOTOREN WERKE AG 8000 MUENCHEN DE ; BAYERISCHE MOTOREN WERKE 8000 MUENCHEN DE AG

Inventor(s):(std)**:** JEDECK HELMAR ING GRAD ; JOCHMANN FRANZ ING GRAD ; SVOBODA ROSTISLAV

Inventor(s): JEDECK HELMAR ING ; JOCHMANN FRANZ ING GRAD 8000 MUENCHEN DE ; JEDECK HELMAR ING GRAD 8044 OBERSCHLEISSHEIM DE ; JOCHMANN FRANZ ING

International class (IPC 8–9): E05F15/00 (Advanced/Invention); E05F15/00 (Core/Invention)

International class (IPC 1–7): B60J1/00 E05F15/20

CPC: E05F15/47 E05Y2900/55

European class: E05F15/00B6H P05Y900/550

Classification Explorer

Cited documents: DE2610558 A1, DE2432063 B2, DE2127207 B2, DE2002140 A1, DE1963512 A1,

Forward Citations: US6125591, FR2760038, FR2563565, FR2543606, EP0182019, DE4010468, DE3911493, DE3730281, DE3633834, DE3514515, DE3441820, DE3424286, DE3244932, DE29808826, DE19701681, DE102008054249, DE10047085, DE10047085,

Abstract:
Source: DE3028445A1 Sicherheitseinrichtung fuer motorisch bewegte Schliessteile Patentansprueche 1 Sicherheitseinrichtung fuer motorisch bewegte Schliess teile fuer Oeffnungen von Kraftfahrzeugen, mit einer Sicherheitsschaltung, die durch einen bei Einklemmen eines Gegenstandes in der Oeffnung betaetigten Sicher heitsschalter eingeschaltet ist, dadurch gekennzeich net, dass ein Endschalter (Mikroschalter 12) im End bereich (9, 10) des Schliessteiles (Fensterscheibe 3) betaetigt ist und dass der Antriebsmotor (2) des Schliessteiles bei betaetigtem Endschalter und betaetig tem Sicherheitsschalter (Druckimpulsschalter 11) durch ein Zeitglied fuer eine Zeitspanne (t) abge schaltet ist 2. The safety circuit has a safety switch that is actuated when an object is caught in the window. A microswitch (12) is operated by the upper edge of the side window (3) as it travels upwards. The motor (2) driving the window is stopped for a given time when both the safety switch (11) and the microswitch have been operated. The microswitch is located between the fully–closed position of the window and the position in which an object can no longer be trapped. A timing circuit defines the time for which the motor remains off. After this time has elapsed the motor remains off if the switches have not been released. The motor direction is reversed if only the safety switch is operated. The same arrangement may be used for car doors, boots etc.

0) US4599843A – VEHICLE SAFETY BAR

21) Family number: 29389303 (US4599843A) © PatBase

Title: VEHICLE SAFETY BAR

Priority: SE19800006537 19800917 SE19820000530 19820201 WO1981SE00264 19810916 WO1982SE00264 19820819

Family:

Publication number	Publication date	Application number	Application date
AU198175835 A1	19820414	AU19810075835	19810916
DE3249345 T	19840906	DE19823249345T	19820819
DE3249345 T1	19840906	DE19823249345T	19820819
DK403983 A	19830906	DK19830004039	19830906
DK403983 A0	19830906	DK19830004039	19830906
EP0112825 A1	19840711	EP19820902479	19820819
EP0112825 B1	19870506	EP19820902479	19820819
FI840808 A	19840229	FI19840000808	19840229
FI840808 A0	19840229	FI19840000808	19840229
GB2132947 A1	19840718	GB19840002404	19820819
GB2132947 B2	19860716	GB19840002404	19820819
GB8402404 A0	19840229	GB19840002404	19820819
IT1205264 A	19890315	IT19820022865	19820813
IT8222865 A0	19820813	IT19820022865	19820813
NO156554 B	19870706	NO19830003351	19830916
NO156554 C	19871014	NO19830003351	19830916
NO833351 A	19830916	NO19830003351	19830916
SE434245 B	19840716	SE19820000530	19820201
SE434245 C	19841025	SE19820000530	19820201
SE436182 B	19841119	SE19840000356	19840125
SE436182 C	19850228	SE19840000356	19840125
SE8006537 A	19820318	SE19800006537D	19800917
SE8200530 A	19830802	SE19820000530	19820201
SE8400356 A	19840125	SE19840000356	19840125
SE8400356 A0	19840125	SE19840000356	19840125
SE8400356 L	19840125	SE19840000356	19840125
US4599843 A	19860715	US19830541339	19830921
WO8200947 A1	19820401	WO1981SE00264	19810916
WO8302575 A1	19830804	WO1982SE00264	19820819

Probable Assignee: DOBEL AB

Assignee(s):(std)**:** COLLIN R ; COLLIN ROLF ; DOBEL AB ; LARSSON R ; LARSSON RALF ; KOEHLER K ; KOHLER KARL AXEL

Assignee(s): KOHLER K ; DOBEL S 78184 BORLANGE SWEDEN A CORP AB ; KARL AXEL KOHLER ; RALF LARSSON ; ROLF COLLIN ; DOBEL A CORP ; DOBEL A CORP OF SWEDEN

Inventor(s):(std)**:** COLLIN R ; COLLIN ROLF ; INGAVARSSON LARS INGVAR ; INGVARSSON L ; INGVARSSON L I ; INGVARSSON LARS ; INGVARSSON LARS INGVAR ; KOEHLER K ; KOHLER K A ; KOHLER KARL AXEL ; L I INGVARSSON ; L INGVARSSON ; LARSSON R ; LARSSON RALF

Inventor(s): R COLLIN ; R LARSSON ; RALF LARSSON ; ROLF COLLIN ; LARS INGVAR INGAVARSSON ; LARS INGVARSSON ; K A KOHLER ; KARL AXEL KOHLER

Designated states: AU DE DK FI FR GB JP NL NO SE US

International class (IPC 8–9): A47J37/04 B21D47/04 B21D5/14 B60J5/04 B60R21/02 (Advanced/Invention); A47J37/04 B21D47/00 B21D5/00 B60J5/04 B60R21/02 (Core/Invention); B21D B60J B60R E01F (Subclass/Invention)

International class (IPC 1–7): A47J37/04 B21D5/14 B60J5/04 B60K19/00 B60R21/02 E01F15/00 E04C3/04 E04C3/32 E06B3/00

CPC: B21D47/04 B60J5/0444 A47J37/043 A47J37/044 B21D5/14 B60J5/0422 E01F15/00

European class: A47J37/04C A47J37/04D B21D47/04 B21D5/14 B60J5/04E2D4B E01F15/00

US class: 296/146.6 49/501 52/729 52/731 52/731.6 52/735.1 52/843

Classification Explorer

Cited documents: US686817 A, US4123183 A, US4069638 A, US4002000 A, US3791693 A, US3700273 A, US3420016 A, US3361054 A, US2783718 A, US2098752 A, US1552474 A, SE52163 C1, SE52163 C, SE386114 B, SE380851 B, GB1587674 A, FR2080201 A6, DE2319124 A1, DE2129526 A1, DE1658664 A1, DE1579518 A1, CH529886 A,

Forward Citations: WO9915390, WO03018338, US9527465, US9211858, US8727421, US8177269, US7926868, US7827735, US7794006, US7648191, US7503601, US7144072, US6793743, US6767005, US6554345, US6454884, US6338817, US6231995, US6145271, US6138429, US5941597, US5813594, US5306058, US5277469, US5104026, US5092512, US5080412, US5080411, US5080410, US4919473, US2011140465, US2010122981, US2009066095, US2008217935, US2008093867, US2005073170, US2003067190, EP2143511, EP1420968, EP1296843, EP1036679, EP1036679, EP1036678, EP1036678, EP0952020, DE4421934, DE4327393, DE20316548, DE19733191,

Abstract:
Source: US4599843A PCT No. PCT/SE82/00264 Sec. 371 Date Sep. 21, 1983 Sec. 102(e) Date Sep. 21, 1983 PCT Filed Aug. 19, 1982 PCT Pub. No. WO83/02575 PCT Pub. Date Aug. 4, 1983.An elongated safety bar comprises first and second spaced apart flanges and first and second webs which interconnect the associated side edges of the first and second flanges, the second flange, when viewed in cross section, including a flat central portion, and the first flange, when viewed in cross section, including a central portion which is parallel to the flat central portion of said second flange, and opposite generally semicircular end portions, these end portions extending away from the side of an imaginary plane defined by the flat central portion of the first flange opposite the side facing of the second flange. The second flange is longer, viewed in cross section, than the first flange, thus providing the safety bar with a closed, generally trapezoidal–shaped cross section.

0) US4410843A – ELECTRICALLY CONTROLLED SLIDING WINDOW AND PROX...

22) Family number: 2100561 (US4410843A) © PatBase

Title: ELECTRICALLY CONTROLLED SLIDING WINDOW AND PROXIMITY DETECTOR

Priority: DE19813111724 19810325 DE19823261674 19820325

Family:

Publication number	Publication date	Application number	Application date
BR8201657 A	19830216	BR19820001657	19820324
CA1190300 A1	19850709	CA19820399172	19820323
DE3111724 A1	19821007	DE19813111724	19810325
DE3261674 D1	19850207	DE19823261674	19820325
EP0061970 A1	19821006	EP19820400540	19820325
EP0061970 B1	19841227	EP19820400540	19820325
ES510722 A0	19830201	ES19820510722	19820324
ES510722 A2	19830215	ES19820510722	19820324
ES8302842 A1	19830416	ES19820510722	19820324
JP57209382 A2	19821222	JP19820046457	19820325
PT74649 A	19820401	PT19820074649	19820324
PT74649 B	19830822	PT19820074649	19820324
US4410843 A	19831018	US19820362038	19820325
YU64482 A	19851231	YU19820000644	19820324

Probable Assignee: SAINT GOBAIN VITRAGE

Assignee(s):(std)**:** FHN VERBINDUNGSTECHNIK GMBH ; GLASWERKE GMBH VER ; SAINT GOBAIN VITRAGE ; VER GLASWERKE GMBH

Assignee(s): VEREINIGTE GLASWERKE GMBH ; SAN GOBAN BITORAAJIYU ; SAINT GOBAIN VITRAGE LES MIROIRS 18 AVENUE D'ALSAC ; VEGLA VER GLASWERKE GMBH ; SAINT GOBAIN VITRAGE LES MIROIRS 18 AVENUE D'ALSACE F 92400 COURBEVOIE FRANCE A CO OF ; SAINT GOBAIN VITRAGE LES MIROIRS ; SAINT GOBAIN VITRAGE LES MIROIRS 18 AVENUE D ALSACE F 92400 COURBEVOIE FRANCE A CO OF ; VEGLA VEREINIGTE GLASWERKE GMBH

Inventor(s):(std)**:** DEIITAA UNBEHAUN ; GERUTO ZAUAA ; SAUER G ; SAUER GERD DIPL ING ; UNBEHAUN D ; UNBEHAUN DIETER ING GRAD ; UNBEHAUN DIETER ; SAUER GERD

Inventor(s): GERD SAUER ; DIETER UNBEHAUN ; UNBEHAUN DIETER ING

Designated states: BE DE FR GB IT SE

International class(IPC 8–9)**:** B60J1/00 B60J1/17 B60S1/56 E05F15/00 E05F15/16 H03K17/955 (Advanced/Invention); B60J1/00 B60J1/17 B60S1/56 E05F15/00 E05F15/16 H03K17/94 (Core/Invention)

International class(IPC 1–7)**:** B60J1/00 B60J1/17 B60S1/02 E05F15/00 E05F15/10 E05F15/16 G05F H01H47/12 H03K17/95 H03K17/955

CPC: E05F15/46 H03K17/955 B60J1/17 E05Y2900/538 E05Y2900/55

European class: B60J1/17 E05F15/00B6F H03K17/955 P05Y900/538 P05Y900/550

US class: 219/203 318/317 318/466 318/467 49/31

Classification Explorer

Cited documents: US4351016 A, US3982092 A, US3651389 A, US3594547 A, US2866881 A, FR2073975 A5, EP0026719 A1, DE2939942 A1, DE1690298 A1,

Forward Citations: WO9963192, WO10115534, WO0139278, WO0136772, US9797179, US9731580, US9705494, US9646436, US9642187, US9579955, US9575481, US9475364, US9242533, US9174515, US8938914, US8915018, US8895897, US8881458, US8707624, US8530792, US8402695, US8049451, US6972575, US6777958, US6750624, US6724324, US6723933, US6700393, US6544043, US6515441, US6469524, US6169379, US6137086, US6014840, US5981907, US5955854, US5624591, US5621290, US5466911, US5441416, US5422552, US5402075,

US4952855, US4918288, US4631461, US2016016758, US2014238967, US2012049576, US2011313619, US2010146859, US2009235588, US2007279332, US2006011597, US2005040151, US2004124972, US2002154039, JP60042879, JP4283153, JP2016513513, JP2010007370, GB2282848, GB2282848, FR2806994, EP1785569, EP1319777, EP0842504, DE3423132,

Abstract:
Source: US4410843A Apparatus for an electrically moved sliding window, used illustratively in automotive applications, having first, a built–in safety device, for providing a signal whenever the window has been raised or lowered to a preselected height and second, a proximity detector is described. The device and detector comprise a plurality of conductors, bonded to the surface of the window. These conductors are, in turn, connected to an integrated circuit element which is also mounted to the surface of the window. This circuit element controls a power stage which, in turn, supplies power to the drive motor which raises and lowers the window. The circuit element and the conductors are placed directly on the window in a stationary position with respect to one another.

0) US4453669A – ELECTRICALLY HEATED GLASS PANE

23) Family number: 29341994 (US4453669A) © PatBase

Title: ELECTRICALLY HEATED GLASS PANE

Priority: FR19810013806 19810715

Family:

Publication number	Publication date	Application number	Application date
BR8204067 A	19830705	BR19820004067	19820713
DE3273938 D1	19861127	DE19823273938	19820715
EP0070771 A1	19830126	EP19820401326	19820715
EP0070771 B1	19861022	EP19820401326	19820715
ES513986 A0	19830401	ES19820513986	19820715
ES513986 A2	19830414	ES19820513986	19820715
ES8305175 A1	19830616	ES19820513986	19820715
FI75718 B	19880331	FI19820002515	19820714
FI75718 C	19880711	FI19820002515	19820714
FI822515 A	19830116	FI19820002515	19820714
FI822515 A0	19820714	FI19820002515	19820714
FI822515 L	19830116	FI19820002515	19820714
FR2509947 A1	19830121	FR19810013806	19810715
FR2509947 B1	19840420	FR19810013806	19810715
IE53691 B	19890118	IE19820001680	19820712
IE821680 L	19830115	IE19820001680	19820712
JP1705655 C3	19921027	JP19820121361	19820714
JP3069854 B4	19911105	JP19820121361	19820714
JP58032042 A2	19830224	JP19820121361	19820714
PT75236 A	19820801	PT19820075236	19820712
PT75236 B	19841029	PT19820075236	19820712
US4453669 A	19840612	US19820396766	19820709

Probable Assignee: SAINT GOBAIN VITRAGE A CORP OF FRANCE

Assignee(s):(std)**:** GLASWERKE GMBH VER ; SAINT GOBAIN VITRAGE ; VER GLASWERKE GMBH ; SAN GOBAN BITORAAJIYU

Assignee(s): VEGLA VER GLASWERKE GMBH ; SAINT GOBAIN VITRAGE A CORP OF FRANCE ; SAINT GOBAIN VITRAGE LES MIROIRS ; VEGLA VEREINIGTE GLASWERKE GMBH

Inventor(s):(std)**:** MARIO ROTSUSHIYU ; MARIO ROTSUSHU ; ROTH MARIO ; MARIO ROTH ; HEINZ KARLA ; HAINTSU KARURA ; KARLA HEINZ

Inventor(s): MARIO ROTH ET HEINZ KARLA

Designated states: BE DE FR GB IT LU NL SE

International class(IPC 8–9)**:** B60J1/20 C03C17/34 C03C17/36 H05B3/28 H05B3/84 H05K3/28 (Advanced/Invention); B60J1/20 C03C17/34 C03C17/36 H05B3/22 H05B3/84 H05K3/28 (Core/Invention)

International class(IPC 1–7)**:** B60H1/02 B60J1/00 B60J1/20 C03B C03C17/34 C03C17/36 C03C23/00 C03C27/00 H05B3/06 H05B3/26 H05B3/84 H05K3/28

CPC: Y10S428/901 H05B3/84 H05B2203/016 Y10T428/24926

European class: H05B3/84 T05B203/016

US class: 165/43 219/203 219/522 219/543 219/548 237/12.30R 237/12.3R 244/134D 338/309 427/108 428/210 428/901

Classification Explorer

Cited documents: US4388522 A, US4284677 A, US4109044 A, US4023008 A, US3811934 A, US3553833 A, US2864928 A, US2628299 A, FR2363256 A1, FR2105845 A5, DE1690298 A1,

Forward Citations: WO8601672, WO12069846, WO09003525, US9090146, US8461495, US7520416, US7344059, US7270548, US7265323, US7241964, US7053343, US7002115, US6793120, US6598931, US6268594, US6267630, US6185812, US6180921, US6084219, US5861606, US5733263, US5525401, US5213828, US5011745, US4954153, US4910380, US4644139, US4618088, US4542285, US2010236608, US2007045002, US2006126196, US2005269312, US2005115954, US2005072455, US2004232117, US2004195233, US2003178394, JP63248085, JP60138806, JP4206584, JP2003507305, JP2000235889, FR2638934, FR2574780, EP1840449, EP0217703, EP0145604, EA017207, DE4111625, DE102004018215, BE1004164,

Abstract:
Source: US4453669A An electrically heated glass pane includes a plurality of heating conductors (2) comprising a family of parallel conductors extending between a pair of power supply conductors (3) both disposed on and burnt−in a surface of a glass pane (1). A strip (4), of non−conductive material, covers conductors (3) and extends laterally from the edges of the conductors. The conductors (2) merge into the conductors (3) at a transitional region (7) broadened by an increasing flare so that the cross section of the region, determining the electrical resistance, is greater than the cross section of the conductors (2) providing resistive heating. A layer (12) which covers the same area as the strip (4) may be disposed below each conductor (3), directly on the surface of the glass pane (1). An opening (16) is recessed in layer (12), so that the conductors (3) are connected directly with the surface of glass pane (1). A connecting element (14) for connecting the conductors (3) to a source of power is soldered to the conductors (3) above the opening (16).

0) US4459521A – CONTROL BOX FOR A DRIVING MOTOR OF A SLIDABLE P...

24) Family number: 4422438 (US4459521A) © PatBase

Title: CONTROL BOX FOR A DRIVING MOTOR OF A SLIDABLE PANEL OF A VEHICLE, IN PARTICULAR FOR A WINDOW RAISER

Priority: FR19810001793 19810130 US19820391251 19820623

Family:

Publication number	Publication date	Application number	Application date
DE3171853 D1	19850919	DE19813171853	19811207
EP0057338 A2	19820811	EP19810401945	19811207
EP0057338 A3	19820818	EP19810401945	19811207
EP0057338 B1	19850814	EP19810401945	19811207
FR2499331 A1	19820806	FR19810001793	19810130
FR2499331 B1	19830429	FR19810001793	19810130
US4459521 A	19840710	US19820391251	19820623

Probable Assignee: ECIA EQUIPMENTS ET COMPOSANTS POUR L INDUSTRIE AUTOMOBILE

Assignee(s):(std): PEUGEOT ACIERS ET OUTILLAGE

Assignee(s): PEUGEOT ACIERS OUTILLAGE ; ECIA EQUIPMENTS ET COMPOSANTS POUR L''INDUSTRIE AU ; ECIA EQUIPMENTS ET COMPOSANTS POUR L'INDUSTRIE AUT ; ECIA EQUIPMENTS ET COMPOSANTS POUR L INDUSTRIE AUTOMOBILE ; ECIA EQUIPMENTS ET COMPOSANTS POUR L'INDUSTRIE AUTOMOBILE ; ACIERS ET OUTILLAGE PEUGEOT ; ACIERS ET OUTILLAGE PEUGEOT A FRENCH BODY CORPORAT ; ECIA EQUIPMENTS ET COMPOSANTS POUR L INDUSTRIE AUT ; ACIERS ET OUTILLAGE PEUGEOT SOCIETE DITE ; ACIERS ET OUTILLAGE PEUGEOT SOC ; ACIERS ET OUTILLAGE PEUGEOT A FRENCH BODY CORPORATE

Inventor(s):(std): BARGE JEAN

Inventor(s): JEAN BARGE

Designated states: BE CH DE GB IT LI SE

International class (IPC 8–9): E05F15/16 H02P7/00 (Advanced/Invention); E05F15/16 H02P7/00 (Core/Invention)

International class (IPC 1–7): B60J1/17 E05F15/14 E05F15/16 H02P1/10 H02P1/26 H02P7/00

CPC: E05Y2900/55 H02P7/03 E05F15/695

European class: E05F15/16C3 H02P7/00E P05Y900/550

US class: 318/257 318/267 318/305 318/445

Classification Explorer

Cited documents: US4422030 A, US4373149 A, US4366425 A, US4350944 A, US4164692 A, US4162437 A, US4107586 A, US4006392 A, US3624473 A, GB2013428 A1, FR2379686 A1, FR2339271 A1, DE2549964 A1, DE2048740 A1,

Forward Citations: WO9424918, WO07131598, US9758350, US6198175, US5718770, US5603127, US5307524, US4972128, US4678975, US4672278, US4621223, US4575662, US4562387, US2016090273, US2006006823, US2005173942, US2004246637, FR2663672, FR2534423, EP0124956, EP0118074, EP0107537, DE9012217, DE3401864, CN102979403,

Abstract:
Source: US4459521A In this control box, a first switching device (R–1) is actuated when the operator acts on a selector (1) whereby he can choose, on one hand, the direction of the driving of the motor (9) and, on the other hand, by means of a brief or prolonged action, the driving speed of this motor. If the action is prolonged, the switching device (R–1) is inhibited by a second switching device (R–2) controlled by a timing circuit (27) which was initiated at the start of the action. This second switching device then supplies power to the motor (9) through a series resistor (18) so long as the selector (1) is actuated. Application in an electric window raiser of an automobile vehicle.

25) Family number: 15348320 (US4561691A) © PatBase

Title: SAFETY DEVICE FOR ELECTROMECHANICAL OPENING AND CLOSING MECHANISM

Priority: GB19830025926 19830928 US19830537582 19830930

Family:

Publication number	Publication date	Application number	Application date
GB2147432 A1	19850509	GB19830025926	19830928
GB2147432 B2	19870114	GB19830025926	19830928
GB8325926 A0	19831102	GB19830025926	19830928
US4561691 A	19851231	US19830537582	19830930

Probable Assignee: AISIN SEIKI

Assignee(s):(std)**:** AISIN SEIKI

Assignee(s): AISIN SEIKI KABUSHIKI KAISHA ; AISIN SEIKI KK ; AISIN SEKIK KABUSIKI KAISHA

Inventor(s):(std)**:** KAWAI TANEICHI ; MASUDA MITUYOSHI

Inventor(s): MITUYOSHI MASUDA ; TANEICHI KAWAI

International class (IPC 8–9)**:** B60J7/057 E05F15/16 H02H7/085 (Advanced/Invention); H02H3/00 (Advanced/Non–invention); B60J7/04 E05F15/16 H02H7/085 (Core/Invention); H02H3/00 (Core/Non–invention)

International class (IPC 1–7)**:** B60J7/04 E05F15/14 G05D3/00 H02P3/00

CPC: E05F15/697 B60J7/0573 E05Y2900/542 E05Y2900/55 H02H3/006 H02H7/0851 H02H7/0855 E05F15/41

European class: B60J7/057B E05F15/16C5 H02H7/085B P05Y900/542 P05Y900/550 T02H3/00C T02H7/085F

US class: 296/216 296/216.04 296/217 296/222 296/223 318/484 49/28

Classification Explorer

Cited documents: US4468063 A, US4438972 A, US4383206 A, US4191915 A, US4048662 A, US3851216 A, US3612950 A, GB1384974 A, GB1166021 A, GB1160202 A,

Forward Citations: WO05093196, WO0022322, US8573684, US7938483, US7828375, US7552965, US7527328, US7399030, US7303227, US7066518, US6946811, US6428092, US6169379, US6070116, US5955854, US5907139, US5791204, US5775029, US5764008, US5673590, US5625980, US5596840, US5584145, US5539290, US5402075, US5399950, US5181891, US5169206, US5083397, US4962337, US4934753, US4931706, US4922168, US4893870, US4773183, US4746845, US4638433, US2011127806, US2008290697, US2008238154, US2007200394, US2007114818, US2007102967, US2006145518, US2006049021, US2005280293, US2004119433, US2004008001, US2003218346, GB2323941, GB2323941, GB2312971, GB2312971, GB2307758, GB2306703, GB2306703, GB2291225, GB2291225, GB2286906, GB2268287, GB2231493, GB2231493, GB2196054, GB2196054, GB2186100, FR2734018, EP1046000, EP0742630, EP0645029, EP0485046, EP0278536, DE19700210, CN102079234, CN102079234, CN101916981,

Abstract:
Source: US4561691A A safety device for an electromechanical opening and closing mechanism, such as an automotive sun roof, which interrupts a circuit for driving the mechanism when a load on the circuit happens to exceed a certain set value in an abnormal case such as when a foreign object is caught in the mechanism. The set value is either a first set value which varies in accordance with the above–noted load or a second set value which is determined by the position of the movable part of the above–noted mechanism. The safety device functions when a load exceeds either of the two set values. The first set value is effective against a load variation, particularly a load decrease, to prevent a decrease in sensitivity decrease of the safety device, while the second set value is effective against an increase in load, particularly a slow increase, to prevent an overload on the mechanism. Thus, the safety device prevents damage to the mechanism and the foreign object caught in the mechanism, while the device maintains a high sensitivity.

0) US4562387A – VEHICLE POWER WINDOW CONTROL

26) Family number: 2487066 (US4562387A) © PatBase

Title: VEHICLE POWER WINDOW CONTROL

Priority: CA19850482652 19850529 US19840674689 19841126

Family:

Publication number	Publication date	Application number	Application date
CA1222306 A1	19870526	CA19850482652	19850529
EP0185449 A1	19860625	EP19850307776	19851028
JP61137984 A2	19860625	JP19850263931	19851126
US4562387 A	19851231	US19840674689	19841126

Probable Assignee: GENERALS MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP ; GENERALS MOTORS CORP ; LEHNHOFF RICHARD N

Inventor(s):(std)**:** LEHNHOFF RICHARD N ; LEHNHOFF RICHARD NICHOLAS ; RICHIYAADO ENU RENHOFU

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP

Designated states: DE FR GB IT

International class (IPC 8–9)**:** B60J1/00 E05F15/00 E05F15/16 E05F15/665 H02H7/08 H02P1/22 H02P7/00 (Advanced/Invention); H02H7/085 (Advanced/Non–invention); B60J1/00 E05F15/00 E05F15/16 H02H7/08 H02P7/00 (Core/Invention); H02H7/085 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/17 E05F15/10 E05F15/16 H02H7/085 H02P1/22 H02P7/00

CPC: E05Y2900/55 H02H7/0838 H02H7/0851 E05F15/41 H02P7/04 E05F15/695

European class: E05F15/16C3 H02H7/08H2 H02P7/00E1 P05Y900/550 T02H7/085B

US class: 318/265 318/285 318/286 318/294 318/345B 318/345C 318/469

Classification Explorer

Cited documents: US4514666 A, US4477751 A, US4476416 A, US4459521 A, US4404558 A, US4394605 A, US4373149 A, US4347465 A, US4338552 A, US4328451 A, US4001661 A, GB2026723 A1, GB2013482 A1, FR2484168 A1, EP0107537 A1, DE2820330 A1,

Forward Citations: WO16012231, US9745797, US9725952, US9725948, US9611690, US8125167, US7633252, US7282817, US7015665, US6989643, US6876531, US6867563, US6784629, US6756754, US6215265, US6072290, US6002224, US5723959, US5721474, US5689160, US5656910, US5559375, US5537013, US5471122, US5192901, US5172037, US5160875, US5097186, US5086260, US5023529, US4998049, US4985666, US4983897, US4963802, US4962337, US4924154, US4897882, US4710685, US4686598, US4683975, US4678975, US2015108922, US2009244939, US2006284486, US2006232896, US2005088130, US2004104701, US2004036433, US2004036430, US2004017232, US2003103306, JP63233181, JP2003049586, FR2643172, EP1365510, EP0921256, EP0898039, EP0898039, EP0889192, EP0889192, EP0390618, EP0275238, DE9012217, CN104533217,

Abstract:
Source: US4562387A A control for a vehicle window driving motor in an H–switch semiconductor bridge with an SCR and a FET in each opposite armature current path includes control logic circuitry enabling one–touch actuation of window movement in either direction with stoppage by actuating either actuation device and with flip–flop control of the bridge elements to prevent shorting out the power supply. A variation provides automatic stoppage in the up direction by stall current sensing with automatic reverse after a time delay to allow the SCR conducting during upward movement to turn off.

0) DE8614531U1 –

27) Family number: 16719212 (DE8614531U1) © PatBase

Priority: DE19860014531U 19860530

Family:

Publication number	Publication date	Application number	Application date
DE8614531 U1	19861030	DE19860014531U	19860530

Probable Assignee: SCHMIDT ROLF 7250 LEONBERG DE

Assignee(s): SCHMIDT ROLF 7250 LEONBERG DE

International class (IPC 8–9): B60J1/20 B60J10/00 B60J10/02 B60R13/07 B62D25/04 (Advanced/Invention); B60J1/20 B60J10/00 B60J10/02 B60R13/00 B62D25/04 (Core/Invention)

International class (IPC 1–7): B62D25/04

CPC: B60R13/07 B60J1/2002 B60J10/25 B60J10/70 B62D25/04

European class: B60J1/20A B60J10/00D6 B60J10/02 B60R13/07 B62D25/04

Classification Explorer

Forward Citations: FR2899521,

Abstract:
Source: DE8614531U1 (Claim 1) Wasserfanglei, te eines Kraftfahrzeugs Ansprueche 1. Wasserfangleiste eines Kraftfahrzeuges zur Verminde– rung der Seitenscheibenverschmutzung mit einer Befe– stigung an einer Windschutzsaeule, mit einer eine Wasserfangrinne abschliessenden Staulippe und mit ei– nem zwischen Staulippe und Befestigung vorhandenen Leistenfuss, dadurch gekennzeichnet, dass fuer die nach– traegliche Montage am Kraftfahrzeug am Leistenfuss (12) auf der der Staulippe (8) abgewandten Seite eine der Windschutzsaeule (1) zugewandte Auflageflaeche (13) vor– handen ist mit einer als Befestigung vorgesehenen Kle– beanordnung (14).

Machine translation: (Claim 1) Wasserfanglei, te a motor vehicle claims 1 Drip molding of a motor vehicle to lighten–tion of the side window of pollution with a fastening stigung at a Windschutzsaeule, with a water gutter final jam lip and with a–NEM between jam lip and fixing existing rails foot, characterized in that for which it should subsequently mounted on the car at the strip foot (12) on the lip of the dam (8) side facing away from the Windschutzsaeule (1) facing Auflageflaeche (13), before–hand with a provided as a mounting adhesive beanordnung (14).

0) US4721845A – ELECTRICALLY HEATABLE VEHICLE GLASS PANE

28) Family number: 2238361 (US4721845A) © PatBase

Title: Electrically heatable vehicle glass pane

Priority: DE19853532119 19850910 DE19863673936 19860908

Family:

Publication number	Publication date	Application number	Application date
AU198660469 A1	19870312	AU19860060469	19860723
AU590301 B2	19891102	AU19860060469	19860723
DE3532119 A1	19870319	DE19853532119	19850910
DE3673936 D1	19901011	DE19863673936	19860908
EP0217703 A1	19870408	EP19860401958	19860908
EP0217703 B1	19900905	EP19860401958	19860908
JP62061285 A2	19870317	JP19860210812	19860909
NZ217516 A	19890329	NZ19860217516	19860909
US4721845 A	19880126	US19860905459	19860910

Probable Assignee: SAINT GOBAIN VITRAGE LES MIROIRS

Assignee(s):(std)**:** GLASWERKE GMBH VER ; SAINT GOBAIN VITRAGE ; VER GLASWERKE GMBH

Assignee(s): VEGLA VEREINIGTE GLASWERKE GMBH 5100 AACHEN DE ; SAINT GOBAIN VITRAGE INTERNATIONAL ; SAINT GOBAIN VITRAGE LES MIROIRS ; VEGLA VEREINIGTE GLASWERKE GMBH

Inventor(s):(std)**:** GERUTO ZAUAA ; HAINTSU KUNERUTO ; HANSU OORENFUORUSUTO ; KUNERT H ; KUNERT HEINZ ; KUNERT HEINZ DR ; OHLENFORST M HANS ; SAUER G ; SAUER GERD ; OHLENFORST H ; OHLENFORST HANS ; SAUER M GERD

Inventor(s): DR HEINZ KUNERT ; OHLENFORST HANS D 5100 AACHEN DE ; SAUER GERD D 5190 STOLBERG VENWEGEN DE ; M GERD SAUER ; M HANS OHLENFORST ; KUNERT DR HEINZ D 5000 KOELN 41 DE

Agent(s): GRIFFITH HACK

Designated states: CH DE FR GB IT LI SE

International class(IPC 8–9)**:** B60J1/20 C03C17/06 C03C27/12 H05B3/06 H05B3/26 H05B3/84 (Advanced/Invention); B60J1/20 C03C17/06 C03C27/12 (Advanced/Non–invention); B60J1/20 C03C17/06 C03C27/12 H05B3/06 H05B3/22 H05B3/84 (Core/Invention)

International class(IPC 1–7)**:** B60J1/00 B60J1/20 C03C17/06 H05B1/00 H05B3/06 H05B3/26 H05B3/28

CPC: H05B3/84 H05B2203/016

European class: H05B3/84 T05B203/016

US class: 219/203 219/541 219/543 219/547 338/307 338/322

Classification Explorer

Cited documents: US4618088 A, US4488033 A, US4443691 A, US4388522 A, US4361751 A, US4284677 A, US3467818 A, US3299253 A, US2864928 A, JP58030557 B4, JP58030557 B2, JP55017471 A2, FR2013512 A7, EP0070771 A1,

Forward Citations: WO9009086, WO13128161, WO09003525, USRE41715, US9155206, US8485840, US8481857, US8198569, US7520416, US6255624, US6043782, US5300349, US5299726, US5229582, US5084132, US5017419, US4918288, US4910380, US4878850, US2010319977, US2010294566, US2006126196, US2006107993, US2006027552, JP62048311, FR2670070, FR2665605, FR2638934, FR2634755, EP1840449, EP0780927, EP0671864, EP0593940, EP0527680, EP0488878, EP0477069, EP0473473, EP0427619, EP0394089, EP0353142, EA017207, DE4126533, DE3937346, DE3919974, DE3912512, DE19508376, BE1004164,

Abstract:
Source: US4721845A In an electrically heatable automobile glass pane with heating conductors printed onto and baked into a surface, which conductors are connected to printed–on and baked–in collecting conductors, metal

strips are disposed on the baked–in collecting conductors and are electrically connected with these collecting conductors. The baked–in collecting conductors and the metal strips connected with them are furnished with a plastic coating which jointly covers them and is glued to them and to the glass surface.

0) DE3600504A1 – WATER–CATCHING STRIP OF A MOTOR VEHICLE WASSERF...

29) Family number: 4538513 (DE3600504A1) © PatBase

Title: Water–catching strip of a motor vehicle

Priority: DE19863600504 19860110

Family:

Publication number	Publication date	Application number	Application date
DE3600504 A1	19870716	DE19863600504	19860110

Probable Assignee: SCHMIDT ROLF

Assignee(s):(std)**:** SCHMIDT ROLF

Inventor(s):(std)**:** SCHMIDT ROLF

International class (IPC 8–9)**:** B60R13/07 (Advanced/Invention); B60R13/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/20 B62D25/00

CPC: B60R13/07

European class: B60R13/07

Classification Explorer

Cited documents: DE8626441 U, DE2916682 A1, DE2534686 A1, DE2409364 B1, DE2135998 A1, DE1802853 C2, DE1505588 A,

Forward Citations: DE102015120431,

Abstract:
Source: DE3600504A1 Water–catching strip 6 of a motor vehicle for reducing the soiling of the side windows 7 with a retaining lip 8 terminating a water–catching channel 11 and an attachment lip 9 and a support surface 13 which is provided at the base 12 of the water–catching strip 6 and on which an adhesive tape 14 is provided to attach the water–catching strip 6 to the windscreen pillar 1.

0) EP0347485A1 – DEVICE ON VEHICLES FOR DRAWING OFF WATER. EINR...

30) Family number: 42535972 (EP0347485A1) © PatBase

Title: DEVICE ON VEHICLES FOR DRAWING OFF WATER.

Priority: DE19873718121 19870529

Family:

Publication number	Publication date	Application number	Application date
DE3718121 A1	19881215	DE19873718121	19870529
DE3866700 D1	19920116	DE19883866700	19880624
EP0347485 A1	19891227	EP19880110085	19880624
EP0347485 B1	19911204	EP19880110085	19880624
ES2027730 T3	19920616	ES19880110085T	19880624

Probable Assignee: AUDI AG

Assignee(s):(std)**:** AUDI AG ; AUDI NSU AUTO UNION AG

Inventor(s):(std)**:** PIECH FERDINAND DIPL ING DR ; PIECH FERDINAND DR

Inventor(s): PIECH FERDINAND DIPL INGDR

Designated states: DE ES FR GB IT

International class (IPC 8–9)**:** B60J1/20 B60R13/07 B62D25/04 (Advanced/Invention); B60J1/20 B60R13/00 B62D25/04 (Core/Invention)

International class (IPC 1–7)**:** B60J1/20 B60R13/07 B62D25/04

CPC: B60R13/07

European class: B60R13/07

Classification Explorer

Cited documents: GB687053 A, FR2369111 A1, DE3121093 A1, DE3119358 A1, DE2458780 A1, DE2318097 A1,

Forward Citations: WO0021822, US9156431, US5466038, US5118157, EP2353903, EP0347486, DE4427464, DE4307303, DE3936372, DE19960144, DE19960143, DE19960143, DE102014017103, DE102012221995, DE102012221994, DE102012221993, DE102009057943, DE102004042703, CN102133851, CN102133851,

Abstract:
A water–collecting device for vehicles is proposed, the water– collecting strip (17) of which is moveable into a non–operational position not–protruding with respect to the outer contour of the vehicle. The component (5) which receives the water–collecting strip (17) is formed by a hollow section (11) produced from light metal using the extruding process, which hollow section is provided with a groove–shaped section (13) for the purpose of receiving mounting parts (15) of the water–collecting strip (17). The hollow section (11) is preferably used as a supply line for a fluid, by means of which the water–collecting strip (17) can be moved into its operative position and/or position of rest.

0) GB8814823A – VITREOUS SUBSTRATE BEARING ELECTRIC CIRCUIT COM...

31) Family number: 3596703 (GB8814823A) © PatBase

Title: VITREOUS SUBSTRATE BEARING ELECTRIC CIRCUIT COMPONENTS and METHOD OF MANUFACTURING SAME

Priority: GB19880014823 19880622

Family:

Publication number	Publication date	Application number	Application date
BE1004164 AD	19921006	BE19890000649	19890615
DE3919974 A1	19891228	DE19893919974	19890619
DE3919974 C2	19940623	DE19893919974	19890619
FR2638934 A1	19900511	FR19890008161	19890616
FR2638934 B1	19940506	FR19890008161	19890616
GB2223385 A1	19900404	GB19880014823	19880622
GB2223385 B2	19920826	GB19880014823	19880622
GB8814823 A0	19880727	GB19880014823	19880622
IT1234803 A	19920527	IT19890067463	19890609
IT8967463 A0	19890609	IT19890067463	19890609

Probable Assignee: SPLINTEX BELGE SA

Assignee(s):(std)**:** SPLINTEX BELGE SA ; SPLINTEX S A ; SPLINTEX SA ; SPLINTEX SOC ANONYME

Assignee(s): SPLINTEX SOCIETE ANONYME ; SPLINTEX S A CHARLEROI HENNEGAU ; SPLINTEX S A CHARLEROI HENNEGAU BE

Inventor(s):(std)**:** BERTIEAUX JEAN MARIE ; JEAN MARIE BERTIEAUX ; MARIE BERTIEAUX JEAN

Inventor(s): BERTIEAUX JEAN MARIE CHARLEROI HENNEGAU ; BERTIEAUX JEAN MARIE CHARLEROI HENNEGAU BE

International class (IPC 8–9)**:** H05B3/84 (Advanced/Invention)

International class (IPC 1–7)**:** B60J1/00 C23C4/06 C23D13/00 G08B13/04 H01Q1/32 H05B3/26 H05B3/84 H05B3/86 H05K1/09 H05K1/11 H05K3/10 H05K3/40

CPC: H05B3/84 H05B2203/016

European class: H05B3/84 T05B203/016

Classification Explorer

Cited documents: JP56135948, JP50027214 A2, GB736861 A, GB2091528 A1, GB2091527 A1, GB1282899 A, GB1252928 A, GB1194090 A, EP0217703 A1, EP0070771 A1, DE906661 A, DE721192 A, DE3532119 A1, DE3344958 A1, DE2044675 B2, DE1807862 B2,

Forward Citations: WO15168476, WO13020863, WO0156334, USRE41715, US9630701, US9623951, US7638737, US6774342, US5886321, US5877473, US5653903, US5299726, US2014227551, KR20140048234, JP5784232, JP2014527265, JP2003521093, EP2863720, EP1734788, EP0374648, DE4206365, DE4126533, DE19536131, DE19536131, CN103703865,

Abstract:
Source: DE3919974A1 An article comprises vitreous substrate 1 bearing electric circuit means 4, 7 which is formed at least in part from, or is in contact with, a deposit or deposits 2, 4, 7 of vitreous enamel. The circuit means includes at least one current collector 7 which consists of or includes a sprayed metallising deposit 8 in contact with the or an enamel deposit 7. The metal current collector or bus–bar reduces the amount of silver rich enamel required and allows a strong soldered joint to terminal 6. Car windscreen heaters, car radio antennas and window alarms are mentioned.

0) US5104178A – FRAME FOR A VEHICLE SLIDING ROOF OR A SLIDING L...

32) Family number: 2948139 (US5104178A) © PatBase

Title: FRAME FOR A VEHICLE SLIDING ROOF OR A SLIDING LIFTING ROOF AND METHOD FOR FORMING SAME

Priority: DE19904014487 19900507

Family:

Publication number	Publication date	Application number	Application date
DE4014487 C1	19910814	DE19904014487	19900507
EP0455975 A2	19911113	EP19910104590	19910323
EP0455975 A3	19920102	EP19910104590	19910323
EP0455975 B1	19931013	EP19910104590	19910323
ES2045974 T3	19940116	ES19910104590T	19910323
JP4212623 A2	19920804	JP19910045140	19910311
US5104178 A	19920414	US19910692247	19910426

Probable Assignee: WEBASTO FAHRZEUGTECHNIK 8035 STOCKDORF DE AG

Assignee(s):(std)**:** DAIKYO WEBASTO ; WEBASTO AG FAHRZEUGTECHNIK ; WEBASTO FAHRZEUGTECHNIK AG

Assignee(s): WEBASTO AG FAHRZEUGTECHNIK 8035 STOCKDORF DE ; WEBASTO FAHRZEUGTECHNIK 8035 STOCKDORF DE AG ; DAIKYO WEBASTO CO LTD ; WEBASTO AG

Inventor(s):(std)**:** HORUSUTO BIINERUTO ; BIENERT HORST

Inventor(s): BIENERT HORST 8035 GAUTING DE

Designated states: ES FR GB IT NL SE

International class (IPC 8–9)**:** B60J10/12 B60J10/82 B60J7/02 B60J7/05 (Advanced/Invention); B60J10/00 B60J7/02 B60J7/04 (Core/Invention)

International class (IPC 1–7)**:** B60J10/12 B60J7/00 B60J7/02 B60J7/04 B60J7/057 B60J7/2

CPC: Y10T74/2045 B60J7/022

European class: B60J7/02B

US class: 296/213 296/216 296/216.08 296/223 74/502.4

Classification Explorer

Cited documents: US4995665 A, US4969681 A, US4911497 A, US4749227 A, US4237656 A, US3964337 A, US3263979 A, EP0363912 A2, DE3831045 A1, DE3532103 A1, DE3525320 A1, DE3419901 A1, DE2836801 A1,

Forward Citations: WO17005352, WO07038912, WO04103752, WO04089670, WO04089670, US9751387, US9248725, US9162556, US8814258, US8662573, US8562070, US8523277, US8292359, US8246109, US8240751, US8231170, US8177294, US8152250, US7922242, US7661455, US7441833, US7354103, US7237835, US7073851, US7073851, US6601911, US6592177, US6588834, US6582014, US6431644, US6231118, US6129413, US6056352, US5961177, US5951100, US5941598, US5746475, US5664827, US5527086, US5466038, US5374099, US2017210213, US2016297286, US2014084636, US2012248827, US2012153685, US2012112496, US2011187162, US2011187161, US2011187160, US2011187159, US2010219727, US2010038933, US2010038932, US2010013270, US2008284213, US2006255628, US2005121152, US2005116511, US2005099036, JP7035139, JP4071313, ES2131999, EP1634747, EP1291216, EP1291214, EP1190942, EP0642941, EP0520523, DE4331390, DE4331390, DE4330582, DE4313687, DE4214277, DE4214277, DE29607114, DE19821694, DE19805468, DE19641462, DE19641462, DE19515412, DE19515412, DE10351734, DE10259431, DE10227028, DE102016200058, DE102016003421, DE102015200169, DE102015113754, DE102014117049, DE102009009972, DE102005047390, DE102005047390, DE102005032564, DE102005032564, DE10159301, DE10151621, DE10144742, DE10144742, DE10144738, DE10144738, DE10135406, DE10135406, DE10053531, DE10048981, DE10048981, CN105799473, CN105620239, CN103253112, CN102958725,

CN102958725, CN102463878, CN102139619, CN102139618, CN102139618,

Abstract:
Source: US5104178A A frame for a vehicle roof of the type having a roof opening in a fixed vehicle roof surface and a cover for closing the roof opening and a device for displacing the cover to a position at least partially opening the roof opening by at least one of sliding and lifting motions, has two lateral side parts which are made of metal and extend in transversely spaced apart relationship to each other, parallel to a longitudinal axis of the vehicle, an injection molded synthetic plastic front part to which corner parts, serving as transition areas to the lateral side parts are directly molded, and at least one cross member interconnecting said lateral side parts. The lateral side parts have guides for cover guide members which support the cover for displacement therealong and which cooperate with a drive unit at the front part via pressure−resistant drive cables. Guide tubes for the pressure−resistant drive cables are at least partially embedded into the molded material of the front part. The construction of the frame facilitates a building block method of assembly, especially when the side parts are formed of continuous light metal extrusion profiles that can be trimmed to length.

0) EP0445427A2 – TRANSPARENT GLASS FOR VEHICLE. LICHTDURCHLAESS...

33) Family number: 2793173 (EP0445427A2) © PatBase

Title: TRANSPARENT GLASS FOR VEHICLE.

Priority: DE19904006756 19900303

Family:

Publication number	Publication date	Application number	Application date
DE4006756 A1	19910905	DE19904006756	19900303
EP0445427 A2	19910911	EP19900125382	19901222
EP0445427 A3	19920212	EP19900125382	19901222
JP4018764 A2	19920122	JP19900336000	19901129

Probable Assignee: WEBASTO FAHRZEUGTECHNIK AG

Assignee(s):(std)**:** DAIKYO WEBASTO ; WEBASTO AG FAHRZEUGTECHNIK ; WEBASTO FAHRZEUGTECHNIK AG

Assignee(s): WEBASTO AG FAHRZEUGTECHNIK 8035 STOCKDORF DE ; WEBASTO FAHRZEUGTECHNIK 8035 STOCKDORF DE AG ; DAIKYO WEBASTO CO LTD

Inventor(s):(std)**:** LUTZ ALFONS ; JARDIN HANS ; HANSU YARUDEIN ; ARUFUONSU RIYUTSUTSU

Inventor(s): JARDIN HANS 8084 INNING DE ; LUTZ ALFONS 8080 EMMERING DE

Designated states: DE ES FR GB IT NL SE

International class(IPC 8–9)**:** B60J1/00 B60J7/00 B60J7/043 C03C17/34 H01L31/04 H01L31/042 (Advanced/Invention); B60J1/00 B60J7/00 B60J7/04 C03C17/34 H01L31/04 H01L31/042 (Core/Invention)

International class(IPC 1–7)**:** B60J1/00 B60J7/00 B60J7/043 C03C17/34 H01L31/04 H01L31/042

CPC: Y02T10/90 B32B17/10036 B32B17/10174 B32B17/10302 B60J7/043 C03C17/3411 C03C17/3482 Y02E10/52

European class: B32B17/10C4 B32B17/10E10 B32B17/10E16B B60J7/043 C03C17/34D C03C17/34D4K Y02E10/52 Y02T10/88

Classification Explorer

Cited documents: EP0343628 A2, EP0343419 A2, EP0301419 A2, EP0204562 A2, DE8901830 U, DE7724409 U, DE3801989 A1, DE3544080 A1, DE3130857 C2, DE2138517 B2, DE1951616 A1,

Forward Citations: WO13182399, WO13182398, WO03105239, WO03105239, US6631943, US6283542, EP1036683, EP1036683, DE4227860, DE19901273, DE19758772, DE102015101121, DE10114933, DE10114933, DE10109074, DE10109074, DE10107999, DE10107999, DE10010257,

Abstract:
Transparent pane for vehicles, especially a glass cover for sliding roofs, tilting roofs and the like, having an outer glass layer and a transparent solar cell layer bearing flat against the inside of the outer glass layer. The solar cell layer is constructed on a carrier layer which is arranged on the side of the outer glass layer averted from the insolation. The carrier layer of the solar cell layer and/or the contact surfaces of the solar cell layer, which are situated on the side of the solar cell layer averted from the insolation, are constructed as an energy transmission protective layer bounding the incidence of radiative energy in the vehicle interior.

0) US5264263A – SHAPED GLAZING PROVIDED WITH A CURRENT NETWORK ...

34) Family number: 3081306 (US5264263A) © PatBase

Title: SHAPED GLAZING PROVIDED WITH A CURRENT NETWORK

Priority: FR19900008314 19900702 US19910724778 19910702 US19930012983 19930203

Family:

Publication number	Publication date	Application number	Application date
AT113154 E	19941115	AT19910401748T	19910627
CS9102038 A3	19920115	CS19910002038	19910702
CZ279460 B6	19950517	CS19910002038	19910702
DE69104655 D1	19941124	DE19916004655	19910627
DE69104655 T2	19950524	DE19916004655T	19910627
DK0465311 T3	19950403	DK19910401748T	19910627
EP0465311 A1	19920108	EP19910401748	19910627
EP0465311 B1	19941019	EP19910401748	19910627
ES2065637 T3	19950216	ES19910401748T	19910627
FR2663885 A1	19920103	FR19900008314	19900702
FR2663885 B1	19930528	FR19900008314	19900702
HU214721 B	19980528	HU19910002188	19910628
HU60585 A2	19920928	HU19910002188	19910628
HU9102188 A0	19911230	HU19910002188	19910628
JP4229984 A2	19920819	JP19910160432	19910701
KR19920003802 A	19920229	KR19910011066	19910701
US5264263 A	19931123	US19930012983	19930203

Probable Assignee: SAINT GOBAIN VITRAGE INT

Assignee(s):(std)**:** SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN VITRAGE ; SAINT GOBAIN VITRAGE INT

Assignee(s): SAINT GOBAIN VITRAGE INT LES MIROIRS ; SAINT GOBAIN VITRAGE INTERNAL ; SAINT GOBAIN VITRAGE INTERNATIONAL ; SAINT GOBAIN VITRAGE INTERNATIONAL COURBEVOIE FR ; SAN GOBAN BITORAAJIYU INTERN ; SAINT GOBAIN VITRAGE INTERNATIONAL LES MIROIRS FR ; SAINT GOBAIN VITRAGE INTERNATIONAL LES MIROIRS

Inventor(s):(std)**:** ERIKU ZUWARUSUKI ; JIYATSUKU PORA ; POLAT JACQUES ; SZUWALSKI ERIC ING ; SZUWALSKI ERIC SZUWALSKI ERIC ; SZUWALSKI ERIC ; JACQUES POLAT ; ERIC SZUWALSKI ; POLAT JACQUES ING

Inventor(s): SZUWALSKI ERIC FR ; SZUWALSKI ERIC SZUWALSKI ERIC F 60200 MARGNY... ; SZUWALSKI ERIC SZUWALSKI ERIC F 60200 MARGNY LES C ; POLAT JACQUES F 60153 ROTHONDES FR ; POLAT JACQUES FR

Designated states: AT BE CH DE DK ES FR GB IT LI LU NL SE

International class (IPC 8–9): B60J1/18 B60S1/02 C03B23/02 H05B3/84 (Advanced/Invention); B60J1/18 B60S1/02 C03B23/02 H05B3/84 (Core/Invention)

International class (IPC 1–7): B32B3/00 B60J1/18 B60S1/02 C03B23/02 H05B3/84

CPC: H05B3/84 H05B2203/016 Y10T428/24777 Y10T428/24868

European class: H05B3/84 T05B203/016

US class: 296/84.1 428/192 428/203 428/208 428/38 428/426 428/432 428/433

Classification Explorer

Cited documents: US5071692 A, US4971848 A, GB2091529 A1, FR1464586 A, EP0193464 A2,

Forward Citations: WO13023832, WO08025756, WO05105691, US2007045264, EP1748034, CN101826718,

Abstract:
Source: US5264263A A shaped heated glazing constituted by a cambered glass sheet is provided with a heating network. The light colored collecting strips are partly covered with a darker enamel coating having a greater heat absorption capacity so that, by modifying the pattern of said enamel coating, it is possible to modify the heating of the glass sheet during the heating preceding cambering, and consequently to better control the latter. The invention relates to car glazings of the rear window type.

0) DE4132249C2 – WATER TRAPPING FOR VEHICLE WINDSCREEN – ARRANGE...

35) Family number: 10550921 (DE4132249C2) © PatBase

Title: Water trapping for vehicle windscreen – arrangement of strips to create two parallel U–shaped water channels

Priority: DE19914132249 19910927

Family:

Publication number	Publication date	Application number	Application date
DE4132249 A1	19930408	DE19914132249	19910927
DE4132249 C2	19940721	DE19914132249	19910927

Probable Assignee: AUDI AG

Assignee(s):(std): AUDI AG ; AUDI NSU AUTO UNION AG

Assignee(s): AUDI AG 8070 INGOLSTADT DE ; AUDI AG 85057 INGOLSTADT ; AUDI 8070 INGOLSTADT DE AG ; AUDI 85057 INGOLSTADT AG

Inventor(s):(std): SOJA HEINZ DIPL ING ; RAMEISER GEORG DIPL ING

Inventor(s): SOJA HEINZ DIPL ING 8074 GAIMERSHEIM DE ; SOJA HEINZ DIPL ING 8074 GAIMERSHEIM ; RAMEISER GEORG DIPL ING 8070 INGOLSTADT DE ; RAMEISER GEORG DIPL ING 8070 INGOLSTADT

International class (IPC 8–9): B60J10/00 B60J10/02 B60R13/07 B62D25/07 (Advanced/Invention); B60J10/00 B60J10/02 B60R13/00 B62D25/06 (Core/Invention)

International class (IPC 1–7): B60J1/02 B60R13/07 B62D25/04

CPC: B60R13/07 B60J10/25 B60J10/70 B62D25/07

European class: B60J10/00D6 B60J10/02 B60R13/07 B62D25/07

Classification Explorer

Cited documents: DE3925808 A1, DE3214876 A1, DE2916682 A1, DE1630375 B2,

Forward Citations: WO10130486, DE102014202048, DE102012206767, DE102008003275,

Abstract:
Source: DE4132249C2 The water trap and deflector on the leading roof column of a vehicle at the side of the windscreen has a second water trapping strip (13) is parallel to and at a distance from a first strip (11) to form a second U–shaped rainwater channel (14) over a first channel (12). The second water trapping strip lies with its side edge (17) opposite the side edge (16) of the first strip but does not project as far as the first strip towards the centre of the car. ADVANTAGE – Water channel system which improves water removal and also reduces flow resistance.

0) NL9102116A – OPEN ROOF STRUCTURE FOR A PASSENGER CAR OR LORR...

36) Family number: 14829291 (NL9102116A) © PatBase

Title: Open roof structure for a passenger car or lorry

Priority: NL19910002116 19911218

Family:

Publication number	Publication date	Application number	Application date
NL9102116 A	19930716	NL19910002116	19911218

Probable Assignee: VERMEULEN HOLLANDIA OCTROOIEN

Assignee(s):(std)**:** VERMEULEN HOLLANDIA OCTROOIEN

Assignee(s): VERMEULEN HOLLANDIA OCTROOIEN II B V TE HAARLEM

International class (IPC 8–9)**:** B60J3/04 B60J7/02 (Advanced/Invention); B60J3/00 B60J7/02 (Core/Invention)

International class (IPC 1–7)**:** B60J3/04 B60J7/05 G02F1/135

CPC: B60J3/04 B60J7/02

European class: B60J3/04 B60J7/02

Classification Explorer

Forward Citations: US9776478, US2015097389, NL1014296, JP5178973, JP2001233056, EP0997333, EP0997332,

Abstract:
Source: NL9102116A An open roof structure for a passenger car or lorry having an opening in the fixed roof is provided with a glass panel which is at least slideable and which is able to close or open the opening in the fixed roof as desired. The panel is provided with liquid crystals and solar cells which are arranged over at least part of its surface in order to convert solar energy into electrical energy. The light permeability of the said layer of liquid crystals can be controlled by means of a control member which utilises the electrical energy generated by the solar cells.

0) US5324373A – METHOD OF MAKING A CURVED GLASS PANE OF LAMINAT...

37) Family number: 12232130 (US5324373A) © PatBase

Title: METHOD OF MAKING A CURVED GLASS PANE OF LAMINATED GLASS

Priority: CA19932087471 19930118 DE19924201275 19920118 DE19936004721 19930114

Family:

Publication number	Publication date	Application number	Application date
AT142992 E	19961015	AT19930400077T	19930114
CA2087471 AA	19930719	CA19932087471	19930118
DE4201275 C1	19930819	DE19924201275	19920118
DE69304721 D1	19961024	DE19936004721	19930114
DE69304721 T2	19970403	DE19936004721T	19930114
EP0553003 A1	19930728	EP19930400077	19930114
EP0553003 B1	19960918	EP19930400077	19930114
ES2093369 T3	19961216	ES19930400077T	19930114
JP6008727 A2	19940118	JP19930004989	19930114
KR19930016356 A	19930826	KR19930000403	19930114
US5324373 A	19940628	US19930005285	19930119

Probable Assignee: VEGLA VEREINIGTE GLASWERKE GMBH

Assignee(s):(std)**:** SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN VITRAGE INT ; SAINT GOBAIN VITRAGE ; VER GLASWERKE GMBH ; GLASWERKE GMBH VER

Assignee(s): HAVENITH HUBERT ; SAINT GOBAIN BITORAAJIYU INTERNATL ; GILLNER MANFRED ; VEGLA VEREINIGTE GLASWERKE GMBH 52066 AACHEN DE ; VEGLA VEREINIGTE GLASWERKE GMBH 5100 AACHEN DE ; VANASCHEN LUC ; VEGLA VER GLASWERKE GMBH ; VEGLA VER GLASWERKE GMBH 5100 AACHEN DE ; SAINT GOBAIN VITRAGE INTERNATIONAL ; VEGLA VEREINIGTE GLASWERKE GMBH

Inventor(s):(std)**:** GILLNER MANFRED ; HAVENITH HUBERT ; VANASCHEN LUC ; RAKU BANASHIEN ; MANFUREETO GIRUNAA ; FUUBERUTO HABENIITO

Inventor(s): VANASCHEN LUC B 4700 EUPEN BE ; VANASCHEN LUC EUPEN BE ; HAVENITH HUBERT 5102 WUERSELEN DE ; HAVENITH HUBERT W 5102 WUERSELEN DE ; GILLNER MANFRED 5100 AACHEN DE ; GILLNER MANFRED W 5100 AACHEN DE

Agent(s): GOUDREAU GAGE DUBUC

Designated states: AT BE DE ES FR GB IT LU PT SE

International class (IPC 8–9)**:** B32B17/10 B60J1/00 B60J1/02 B60S1/04 C03B23/02 C03B23/023 C03B23/025 C03C27/12 H05B3/18 (Advanced/Invention); B32B17/06 B60J1/00 B60J1/02 B60S1/04 C03B23/02 C03C27/12 (Core/Invention)

International class (IPC 1–7)**:** B32B17/00 B32B17/10 B32B31/06 B32B31/26 B60J1/00 B60J1/02 B60S1/04 C03B23/02 C03B23/023 C03B23/025 C03B23/23 C03C17/22 C03C27/12 H05B3/18

CPC: Y10T156/1002 B32B17/10935 B32B17/10036 B32B17/10247 B32B17/10889 C03B23/0252 B32B17/10266

European class: B32B17/10C4 B32B17/10E12 B32B17/10L14 B32B17/10L16F C03B23/025B

US class: 156/196 156/277 156/289 156/99 219/203 65/55 65/60.1

Classification Explorer

Cited documents: US5011745 A, US4786784 A, US4744844 A, US4718932 A, US4668270 A, US4644139 A, US4277299 A, US4263350 A, US4009064 A, US3762902 A, US3001901 A, US2944926 A, EP0351739 A2, EP0013970 B1, EP0013970 A1, DE3920573 A1,

Forward Citations: WO9630206, WO9422779, WO9422779, WO09026275, US9245693, US7832233, US7302813, US6530668, US6142642, US6086210, US5759220, US5605591, US5451280, US2011271855, US2009053534, US2006260734, US2004129028, FR2705335, FR2703043, EP1670728, DE4316575, DE10047576,

Abstract:
Source: US5324373A The subject of this invention is a method of making a curved glass pane of laminated glass, such as an automobile windshield, in which one of the two single glass sheets is provided, on the surface bearing against an intermediate layer, with a film of a baking finish. The baking finish is applied onto the inner face of the single glass sheet intended for the outside. The glass sheet, provided with the dried baking finish (i.e., a colored film), is laid, with the film upwards, onto the single glass sheet intended for the inside. The pair of glass sheets, in this arrangement, is prebent on a bending frame with simultaneous baking–in of the colored film. Subsequently, the two glass sheets are transposed and, in this transposed arrangement with the colored film on the inside, are finally bent in a second bending operation on a bending frame corresponding to the final shape of the outer sheet.

0) US2002101210A – COLLISION MONITORING SYSTEM

38) Family number: 28313853 (US2002101210A) © PatBase

Title: COLLISION MONITORING SYSTEM

Priority: US19920872190 19920422 US19940275107 19940714 US19970795971 19970205 US20000562986 20000501 US19960736786 19961025 US19990169061P 19991206 US20090360942 20090128 US20020071759 20020207 US20040765487 20040127 US20020100892 20020318 US20120542726 20120706

Family:

Publication number	Publication date	Application number	Application date
EP0692856 A2	19960117	EP19950107438	19950516
EP0692856 A3	19971008	EP19950107438	19950516
US2002101210 AA	20020801	US20020100892	20020318
US2002121872 AA	20020905	US20020071759	20020207
US2004183493 AA	20040923	US20040765487	20040127
US2009272035 AA	20091105	US20090360942	20090128
US2012285086 AA	20121115	US20120542726	20120706
US5334876 A	19940802	US19920872190	19920422
US5952801 A	19990914	US19970795971	19970205
US6064165 A	20000516	US19960736786	19961025
US6404158 BA	20020611	US20000562986	20000501
US6548979 BB	20030415	US20020071759	20020207
US7548037 BB	20090616	US20020100892	20020318
US7579802 BB	20090825	US20040765487	20040127
US8217612 BB	20120710	US20090360942	20090128
US9030144 BB	20150512	US20120542726	20120706

Probable Assignee: UUSI LLC

Assignee(s):(std)**:** NARTRON CORP ; PERRIN RANDALL ; UUSI LLC ; WASHELESKI JOHN ; BOISVERT MARIO

Inventor(s):(std)**:** WHEELER MARK R ; PERRIN RANDALL ; CATUDAL MICHEL ; BOISVERT MARIO ; WASHELESKI JOHN ; COOPER STEPHEN R W ; BOISVERT MARIO P

Agent(s): TAROLLI SUNDHEIM COVELL AND TUMMINO LLP; HOWARD AND HOWARD ATTORNEYS PLLC

Designated states: DE FR GB IT

International class (IPC 8–9)**:** B60J7/057 E05F15/00 E05F15/10 E05F15/20 G05D3/00 H02H7/08 H02H7/085 H02P3/00 H02P7/00 (Advanced/Invention); H02H3/00 H02H3/44 (Advanced/Non–invention); B60J7/04 H02H7/085 (Core/Invention); H02H3/00 H02H3/44 (Core/Non–invention)

International class (IPC 1–7)**:** B01J19/00 C07K14/00 C12Q1/68 E05F15/14 G01N33/545 G05B5/00 G05D3/00 G05D3/20 H02H7/08 H02H7/085 H02P1/04 H02P3/00 H02P7/00

CPC: Y10S388/903 E05Y2400/44 E05Y2800/00 E05Y2400/54 B60J7/0573 H02H3/006 H02H3/44 H02H7/0851 H02H7/0854 E05F15/41 E05Y2900/542 E05Y2900/55

European class: B01J20/32 B60J7/057B G01N33/545 G01N33/68A H02H7/085B P05Y400/54 T02H3/00C T02H3/44 T02H7/085E

US class: 307/10.1 307/101 318/264 318/265 318/266 318/280 318/282 318/286 318/434 318/453 318/453S 318/461 318/465 318/466 318/467 318/468 318/469 318/469P 318/476 318/565 388/815 388/833 388/903 49/25 49/26 49/28 49/28P 49/31 49/506

Classification Explorer

Cited documents: WO9220891 A1, WO0014846 A1, USRE37784 E, US8341885 BB, US8217612 BB, US8156826 BB, US7579802 BB, US7548037 BB, US7319301 BB, US7307395 BB, US7164246 BB, US6806665 BB, US6806664 BB, US6683431 BB, US6566828 BB,

US6548979 BB, US6528961 BA, US6456022 BA, US6404158 BA, US6400112 BA, US6377009 BA, US6310451 BA, US6278249 BA, US6274947 BA, US6246196 BA, US6243635 BA, US6208102 BA, US6172475 BA, US6172475 B1, US6169379 BA, US6169379 B1, US6157024 A, US6133703 A, US6111374 A, US6107765 A, US6097166 A, US6064165 A, US6057658 A, US5982124 A, US5969637 A, US5955854 A, US5952801 A, US5949207 A, US5932931 A, US5832664 A, US5734245 A, US5729104 A, US5723960 A, US5708338 A, US5701063 A, US5616997 A, US5585702 A, US5539290 A, US5537013 A, US5530329 A, US5525876 A, US5497326 A, US5483133 A, US5436539 A, US5432413 A, US5410227 A, US5404673 A, US5399950 A, US5334876 A, US5278480 A, US5218282 A, US5204592 A, US5162711 A, US5140316 A, US5131506 A, US5081586 A, US5069000 A, US5039925 A, US5038087 A, US4980618 A, US4870333 A, US4855653 A, US4831509 A, US4823059 A, US4746845 A, US4730152 A, US4686598 A, US4673848 A, US4641067 A, US4608637 A, US4514670 A, US4468596 A, US4433509 A, US4386398 A, US4383206 A, US4365250 A, US4347465 A, US4344252 A, US4328540 A, US3888047 A, US3651389 A, US3581174 A, US3513374 A, US2887311 A, US2756990 A, US2751219 A, US2010050787 AA, US2010024301 AA, US2009272035 AA, US2009260289 AA, US2009206784 AA, US2009146668 AA, US2006186844 AA, US2005140323 AA, US2004195986 AA, US2004183493 AA, US2004070316 AA, US2004056621 AA, US2003038606 AA, US2003025470 AA, US2002121872 AA, US2002101210 AA, US2002093301 AA, US2002084759 AA, US2001048280 AA, US2001038272 AA, US2001024095 AA, US2001024094 AA, GB2189906 A1, GB2026723 A1, FR2502679 A1, EP0581509 A1, DE4000730 A1,

Forward Citations: WO9840945, WO9812787, WO9726694, WO9619858, WO9619857, WO16146327, WO09132900, WO07093496, WO06102162, WO05078538, WO05071812, WO04037580, WO03088469, WO0223691, WO02075462, WO0169747, US9797179, US9785156, US9740324, US9722415, US9705494, US9663981, US9660644, US9654103, US9641122, US9621091, US9616439, US9575481, US9568527, US9559688, US9548733, US9531379, US9529088, US9520875, US9515590, US9512662, US9447613, US9417099, US9410371, US9388762, US9347837, US9337832, US9311204, US9290077, US9287864, US9267318, US9234979, US9219472, US9199608, US9197206, US9184745, US9161649, US9143126, US9136840, US9121687, US9058035, US9056749, US9051769, US9046967, US9030144, US9008914, US8991103, US8984809, US8770496, US8769878, US8723471, US8723454, US8720649, US8626384, US8615927, US8590817, US8571774, US8565964, US8508170, US8496194, US8493081, US8463505, US8461786, US8461784, US8456121, US8448521, US8428828, US8379687, US8378609, US8336927, US8321105, US8307878, US8248005, US8237438, US8220846, US8217612, US8175769, US8141300, US8089230, US8022653, US8016213, US7988075, US7978119, US7973506, US7960932, US7926748, US7919883, US7908927, US7902782, US7876152, US7843153, US7816878, US7808200, US7800332, US7798761, US7750588, US7723935, US7719220, US7701157, US7667425, US7633253, US7622876, US7616023, US7612515, US7610030, US7583040, US7579802, US7551995, US7548037, US7548033, US7535191, US7526371, US7518327, US7518325, US7513166, US7511572, US7476860, US7464980, US7449852, US7432676, US7408317, US7385446, US7362068, US7359783, US7354097, US7342373, US7324894, US7323885, US7321607, US7312591, US7293467, US7268506, US7219575, US7215529, US7208694, US7205735, US7196486, US7170244, US7162928, US7161779, US7145299, US7145262, US7132642, US7112900, US7112900, US7109676, US7073291, US7070013, US7068153, US7066518, US7047583, US7046126, US7038414, US7009352, US7000982, US6995532, US6968746, US6949904, US6946853, US6943511, US6940246, US6936988, US6936984, US6933694, US6909253, US6882123, US6859708, US6839372, US6825628, US6822410, US6809488, US6806664, US6795474, US6794837, US6788096, US6788016, US6782759, US6766273, US6759817, US6757316, US6756755, US6756754, US6748308, US6739212, US6693273, US6686669, US6678601, US6598253, US6571488, US6555982, US6552506, US6548979, US6548974, US6541930, US6504332, US6499359, US6498450, US6476518, US6445147, US6437530, US6404158, US6366040, US6329779, US6320341, US6297609, US6288511, US6253135, US6249732, US6246199, US6246194, US6243635, US6236905, US6236176, US6225769, US6215265, US6194857, US6194855, US6169379, US6166508, US6157024, US6137404, US6118243, US6114819, US6086177, US6081088, US6064165, US6054822, US6043620, US6005361, US5955854, US5847289, US5838126, US5825147, US5734245, US5729456, US5723960, US5714854, US5708335, US5612600, US5610484, US5594283, US5585702, US5557887, US5539290, US5530329, US5497326, US5483133, US5459379, US5451849, US5410226, US5399950, US2017117828, US2017030128, US2016379532, US2016248358, US2016180610, US2016156299, US2016131762, US2015284983, US2015130385, US2015114761, US2015108922, US2014265991, US2014200732, US2014173984, US2014008028, US2013328616, US2013307610, US2013305608, US2013276748, US2013271058, US2013271050, US2013106435, US2013080005,

US2012285086, US2012279806, US2012221170, US2012217097, US2012138393, US2012043920, US2011187492, US2011168465, US2011163764, US2011160935, US2011154738, US2011068721, US2011046856, US2011043325, US2011043158, US2011041409, US2011001722, US2010320944, US2010283581, US2010259249, US2010231222, US2010231036, US2010228447, US2010192300, US2010175838, US2010174447, US2010102598, US2010037524, US2009320372, US2009293361, US2009272035, US2009271077, US2009259371, US2009240401, US2009231031, US2009224083, US2009224077, US2009224075, US2009224074, US2009223446, US2009198420, US2009158857, US2009112424, US2009090061, US2009079378, US2009066274, US2009019772, US2008315909, US2008309263, US2008303460, US2008263964, US2008259510, US2008204111, US2008202029, US2008184623, US2008136358, US2008106116, US2008079379, US2008078870, US2008044268, US2008024940, US2008000957, US2007285159, US2007241704, US2007214722, US2007182352, US2007152615, US2007098033, US2007095595, US2007089527, US2007086879, US2007075665, US2007054644, US2007035264, US2007001115, US2006267374, US2006261763, US2006255757, US2006255618, US2006250102, US2006214429, US2006208678, US2006208676, US2006202651, US2006139036, US2006117862, US2006038519, US2006009892, US2006006701, US2005286599, US2005283280, US2005231147, US2005228579, US2005187688, US2005174080, US2005156546, US2005140322, US2005128660, US2005122076, US2005110445, US2005092097, US2005083004, US2005083003, US2005067987, US2005052082, US2005041375, US2005040779, US2005023867, US2005017667, US2005016290, US2004201276, US2004200308, US2004189046, US2004183493, US2004178924, US2004155529, US2004095250, US2004070355, US2004006831, US2003222610, US2003218346, US2003205998, US2003193340, US2003189415, US2003151382, US2003141986, US2003137266, US2003128005, US2003111995, US2003080699, US2003056600, US2003052631, US2003007851, US2002180269, US2002171384, US2002167986, US2002143452, US2002105994, US2002101210, US2002091475, US2002021728, TWI473659, TWI442350, JP2003527057, GB2424965, GB2424965, FR2924150, EP3188334, EP2470736, EP2470736, EP2338717, EP2175330, EP1983648, EP1969709, EP1969709, EP1758224, EP1580861, EP1566510, EP1294070, EP1277912, EP1176687, EP1164245, EP1096633, EP0966782, EP0927447, EP0900679, EP0855488, EP0723886, EP0716492, EP0692856, DE102014221246, CN105401825, CN105298292, CN105257135, CN104795797, CN103984243, CN103806785, CN101824948, CN101824948, AU700051,

Abstract:
Source: US2002101210A Disclosed is an improved system and method for sensing both hard and soft obstructions for a movable panel such as a sunroof. A dual detection scheme is employing that includes an optical sensing as the primary means and electronic sensing of motor current as a secondary means. The secondary means utilizes system empirical precharacterization, fast processing algorithms, motor parameter monitoring including both current sensing and sensorless electronic motor current commutation pulse sensing, and controller memory, to adaptively modify electronic obstacle detection thresholds in real time without the use of templates and cycle averaging techniques.

0) US5350986A – VEHICLE POWER DOOR SPEED CONTROL

39) Family number: 10073445 (US5350986A) © PatBase

Title: VEHICLE POWER DOOR SPEED CONTROL

Priority: US19930063627 19930520

Family:

Publication number	Publication date	Application number	Application date
DE69401302 D1	19970213	DE19946001302	19940425
DE69401302 T2	19970424	DE19946001302T	19940425
EP0626498 A1	19941130	EP19940201139	19940425
EP0626498 B1	19970102	EP19940201139	19940425
JP3516982 B2	20040405	JP19940107013	19940520
JP6328942 A2	19941129	JP19940107013	19940520
US5350986 A	19940927	US19930063627	19930520

Probable Assignee: STRATTEC POWER ACCESS LLC

Assignee(s):(std): GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP ; GENERAL MOTORS CORP DETROIT MICH US ; STRATTEC POWER ACCESS LLC ; DELPHI TECHNOLOGIES INC

Inventor(s):(std): BREE GARY DAVID ; LONG JOSEPH DALE ; STROTHER ROBERT S ; ROBAATO SUTEIIBUN SUTOROZAA ; LONG JOSEPH D ; JIYOSEFU DEERU RONGU ; GEIRII DEEBUITSUDO BURII ; BREE GARY D ; STROTHER ROBERT STEPHEN

Inventor(s): STROTHER ROBERT STEPHEN ST CLAIR SHORES MICHIGAN 4 ; STROTHER ROBERT STEPHEN ST CLAIR SHORES... ; STROTHER ROBERT STEPHEN ST CLAIR SHORES MICHIGAN 48080 US ; LONG JOSEPH DALE WATERFORD MICHIGAN 48329 US ; BREE GARY DAVID CLARKSTON MICHIGAN 48346 US

Agent(s): CHIBA AKIO; MASUI CHUJI; MIYAMAE TORU; ITOH SHIGERU; SHAMOTO ICHIO; TOMITA HIROYUKI; TANAKA HIDEO; KOBAYASHI YASUSHI

Designated states: DE FR GB

International class (IPC 8–9): B60J5/06 E05F15/14 (Advanced/Invention); B60J5/06 E05F15/14 (Core/Invention)

International class (IPC 1–7): B60J5/06 E05F15/14 G05B5/01

CPC: E05Y2800/00 E05Y2400/52 E05Y2400/564 E05Y2800/113 E05Y2800/254 E05Y2900/531 E05F15/662 B60J5/047 E05Y2400/45 E05Y2900/50 E05F15/41 E05F15/632 E05Y2400/337 E05Y2400/34 E05Y2400/514

European class: E05F15/14 P05Y400/337 P05Y400/34 P05Y400/514 P05Y400/564 P05Y800/113 P05Y800/254 P05Y900/531

US class: 318/266 318/282 318/286 318/432 318/466

Classification Explorer

Cited documents: US5162711 A, US5155937 A, US5144769 A, US5140316 A, US5105131 A, US5069000 A, US5039925 A, US5025591 A, US4999551 A, US4994724 A, US4984385 A, US4959598 A, US4935677 A, US4775823 A, US4673848 A, US4640050 A, US4563625 A, US4529920 A, US4449078 A, US4234833 A, JP5112128, JP5104950, GB2202967 A1, DE3736218 A1,

Forward Citations: WO04085781, US9790727, US9523231, US9121687, US8810164, US8127497, US7978119, US7960853, US7816878, US7798761, US7646158, US7551995, US7417395, US7325361, US7243461, US7212897, US7025298, US7023224, US6936983, US6150781, US6134837, US6134836, US6087794, US5866999, US5729101, US5708338, US2016208538, US2015035656, US2013106435, US2013024076, US2011308162, US2010283581, US2009271077, US2009259371, US2009237023, US2009133334, US2008222964, US2008184623, US2008072498, US2008044268, US2007267992, US2007252545, US2006225358, US2004267425, US2004221511, US2004216383, US2004129821, US2004012352, US2003173983, GB2415015, GB2415015, GB2397337, FR2776332, EP1970519, EP1713160,

EP1498566, EP1498566, DE19803709, DE19800346, DE19681627, DE19681592, DE102012103593, DE10117935,

Abstract:
Source: US5350986A A motor is controlled to regulate the speed of a vehicle sliding door whose movement and speed are monitored. The motor control voltage is incrementally adjusted in direction to reduce a sensed speed error only if the door has moved a required distance while the door speed has been continuously outside of the desired speed range since the last incremental adjustment to the control voltage.

0) EP0624500A1 – VEHICLE FOR INSPECTION AND REPAIR. INSPEKTIONS–...

40) Family number: 12757409 (EP0624500A1) © PatBase

Title: VEHICLE FOR INSPECTION AND REPAIR.

Priority: DE19934316663 19930511 DE19945002419 19940511

Family:

Publication number	Publication date	Application number	Application date
AT151700 E	19970515	AT19940250123T	19940511
DE4316663 A1	19941117	DE19934316663	19930511
DE59402419 D1	19970522	DE19945002419	19940511
EP0624500 A1	19941117	EP19940250123	19940511
EP0624500 B1	19970416	EP19940250123	19940511

Probable Assignee: REICHSBAHN WERK FUER GLEISBAUM

Assignee(s):(std)**:** BAHN DEUTSCHE AG ; DEUTSCHE BAHN AG ; DEUTSCHE REICHSBAHN ; REICHSBAHN WERK F GLEISBAUM ; REICHSBAHN WERK FUER GLEISBAUM

Assignee(s): DEUTSCHE REICHSBAHN WERK FUER GLEISBAUMECHANIK O 1802 BRANDENBURG DE ; DEUTSCHE REICHSBAHN WERK FUER GLEISBAUMECHANIK O 1 ; DEUTSCHE BAHN AG 10365 BERLIN DE

Inventor(s):(std)**:** MIELITZ MICHAEL ; KRAUSPE MANFRED ; BISCHKOPF THOMAS

Inventor(s): BISCHKOPF THOMAS 14772 BRANDENBURG DE ; KRAUSPE MANFRED 14789 WUSTERWITZ DE ; MIELITZ MICHAEL D 14774 BRANDENBURG DE ; KRAUSPE MANFRED D 14789 WUSTERWITZ DE ; BISCHKOPF THOMAS D 14772 BRANDENBURG DE ; MIELITZ MICHAEL 14774 BRANDENBURG DE

Designated states: AT BE CH DE IT LI NL

International class(IPC 8–9)**:** B60J5/08 B61D15/00 B61D15/08 (Advanced/Invention); B60J5/06 B61D15/00 (Core/Invention)

International class(IPC 1–7)**:** B60J5/08 B60M1/28 B61D15/00 B61D15/08

CPC: B60J5/08 B61D15/00 B61D15/08

European class: B60J5/08 B61D15/00 B61D15/08

Classification Explorer

Cited documents: US1053080 A, GB899180 A, FR1013189 A, EP0433935 A2, EP0345538 A2, DE3533216 A1, DE3333476 A1, DE2804944 C2, DE2658470 C3, DE2658470 A1, DD298082 A5,

Forward Citations: WO14207096, US8678135, GB2288380, GB2288380, EP2479135, EP1319751, DE112012002826, DE10302940, DE102008028639, DE102008028639, CN102303617,

Abstract:
An inspection and/or repair vehicle with enclosed cabs (V, H) which are arranged at the front and at the rear on a driveable chassis (G) and each have an operator stand (S, B) and a lockable third cab (M) which is located between the two cabs (V, H) is proposed, the bodywork (K) of which cabs can be opened laterally and upwardly completely and contains at least one extendable working platform (A) from which the vehicle can also be controlled, the front and/or rear cab (V, H) being constructed as a workshop space with at least one testing device for running gear devices. The bodywork (k) of the central cab (M) can consist optionally of fold–out and/or pivot–out elements and roller–like or segmental door–like sub–elements. These elements can be inserted or stowed away into intermediate spaces of the vehicle provided for this purpose while the working platform (A) is in use. The vehicle can be controlled absolutely from the working platform (A), i.e. both the drive of the vehicle and the drive of the working platforms (A) can be controlled.

0) US5434487A – VEHICLE DOOR MANUAL TO POWER MOVE

41) Family number: 10065807 (US5434487A) © PatBase

Title: VEHICLE DOOR MANUAL TO POWER MOVE

Priority: US19930063625 19930520

Family:

Publication number	Publication date	Application number	Application date
DE69402243 D1	19970430	DE19946002243	19940425
DE69402243 T2	19970710	DE19946002243T	19940425
EP0625625 A1	19941123	EP19940201144	19940425
EP0625625 B1	19970326	EP19940201144	19940425
JP6344773 A2	19941220	JP19940106981	19940520
US5434487 A	19950718	US19930063625	19930520

Probable Assignee: STRATTEC POWER ACCESS LLC

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP ; GENERAL MOTORS CORP DETROIT MICH US ; STRATTEC POWER ACCESS LLC ; DELPHI TECHNOLOGIES INC

Inventor(s):(std)**:** GEIRII DEEBUITSUDO BURII ; JIYOSEFU DEERU RONGU ; ROBAATO SUTEIIBUN SUTOROZAA ; STROTHER ROBERT STEPHEN ; STROTHER ROBERT S ; LONG JOSEPH DALE ; LONG JOSEPH D ; BREE GARY DAVID ; BREE GARY D

Inventor(s): STROTHER ROBERT STEPHEN MICHIGAN 48080 US ; LONG JOSEPH DALE WATERFORD MICHIGAN 48329 US ; BREE GARY DAVID CLARKSTON MICHIGAN 48346 US

Agent(s): CHIBA AKIO; MASUI CHUJI; MIYAMAE TORU; ITOH SHIGERU; SHAMOTO ICHIO; TOMITA HIROYUKI; TANAKA HIDEO; KOBAYASHI YASUSHI

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/06 E05F15/14 E05F15/20 (Advanced/Invention); B60J5/06 E05F15/14 E05F15/20 (Core/Invention)

International class (IPC 1–7)**:** B60J5/06 E05F15/14 E05F15/20 G05B19/28

CPC: E05Y2800/21 E05Y2201/246 E05Y2201/462 E05Y2201/654 E05Y2201/664 E05Y2400/452 E05Y2400/554 E05Y2800/113 E05Y2900/531 E05Y2201/216 E05F15/75 E05F15/41 E05F15/646 E05F15/70

European class: E05F15/14F2 E05F15/20 E05F15/20D3 P05Y201/216 P05Y201/246 P05Y201/462 P05Y201/654 P05Y201/664 P05Y400/452 P05Y400/554 P05Y800/11 P05Y800/113 P05Y800/20 P05Y900/531

US class: 318/280 318/282 318/286 49/139 49/32

Classification Explorer

Cited documents: US5155937 A, US5144769 A, US5140316 A, US5069000 A, US5062241 A, US5039925 A, US5036620 A, US5025591 A, US4984385 A, US4952080 A, US4862640 A, US4640050 A, US4563625 A, US4529920 A, US4523513 A, US4234833 A, US4154023 A, EP0446651 A2, AU504159 B2,

Forward Citations: WO9713949, WO9713948, WO17147156, WO14040587, WO08022884, WO04085781, WO0053878, US9797178, US9777528, US9745797, US9725952, US9725948, US9677313, US9676256, US9654035, US9647587, US9615687, US9611690, US9573446, US9534587, US9523231, US9410369, US9376863, US9376862, US9249623, US9222296, US9194179, US9152032, US9018868, US8947027, US8919419, US8791658, US8659246, US8567129, US8368328, US8299734, US8297682, US8127497, US8125167, US8068959, US7978119, US7960853, US7816878, US7810282, US7798761, US7551995, US7417395, US7325361, US7243461, US7226112, US7205734, US7170253, US7144068, US7144068, US7127369, US7025298, US7023224, US6936983, US6575864, US6525499, US6341448, US6199322, US6150732, US6134836, US6125583, US6050028, US5986420, US5851050, US5851049, US5832669, US5804937, US5801502, US2016201377, US2016052375, US2015357949, US2015136528, US2013024076,

US2012000304, US2011203754, US2011203748, US2011107671, US2010283581, US2009271077, US2009259371, US2009133334, US2009043456, US2008222964, US2008184623, US2008072498, US2008072497, US2008044268, US2007267992, US2007132273, US2006225358, US2006022630, US2005110300, US2005073852, US2005012482, US2004221511, US2004216383, US2004129821, US2004012352, US2003074966, JP6145444, JP2016113861, GB2304801, GB2304801, FR2800416, ES2113299, EP3037615, EP1713160, EP0905345, DE19742607, DE19639974, DE19639974, CN104781489, CN101506457, AU2007287677,

Abstract:
Source: US5434487A A power operating system for a vehicle door includes a motor operable to power the door open or closed. When a manual movement of the door a predetermined distance is detected while the motor is inactive, the motor is energized so as to move the door in the direction of the detected movement to complete the manually initiated door movement.

0) US5459380A – MOISTURE ACTIVATED WINDOW CLOSER

42) Family number: 12207606 (US5459380A) © PatBase

Title: MOISTURE ACTIVATED WINDOW CLOSER

Priority: US19940254242 19940602

Family:

Publication number	Publication date	Application number	Application date
US5459380 A	19951017	US19940254242	19940602

Probable Assignee: AUGUSTINOWICZ WALTER P

Assignee(s): AUGUSTINOWICZ WALTER P

Inventor(s):(std)**:** AUGUSTINOWICZ WALTER P

International class (IPC 8–9)**:** B60J7/057 E05F15/20 (Advanced/Invention); B60J7/04 E05F15/20 (Core/Invention)

International class (IPC 1–7)**:** E05F15/20

CPC: E05Y2800/428 B60J7/0573 E05Y2900/542 E05Y2900/55 E05Y2400/854 E05Y2400/86 E05Y2800/426 E05F15/40 E05F15/695 E05F15/71

European class: B60J7/057B E05F15/20B P05Y900/542 P05Y900/550

US class: 318/283 318/444 318/447 318/483

Classification Explorer

Cited documents: US5321345 A, US5293105 A, US5159247 A, US4908554 A,

Forward Citations: WO9906665, US9752370, US9512661, US9002584, US6489739, US6232603, US6070637, US6002224, US5990647, US5925997, US5801539,

Abstract:
Source: US5459380A A moisture–responsive system for closing the windows or sunroof of a vehicle having one or more openings each closed by a power driven closure; the system having a moisture sensor for providing a moisture signal in response to the sensing of moisture; a circuit coupled to the closure and the moisture sensor for providing a signal to actuate the closure in response to the receipt of a moisture signal, the circuit including disabling features for safety purposes.

0) EP0712813A1 – PROCESS FOR ENAMELLING GLASS SUBSTRATES, ENAMEL...

43) Family number: 10945612 (EP0712813A1) © PatBase

Title: PROCESS FOR ENAMELLING GLASS SUBSTRATES, ENAMEL COMPOSITION USED THEREFORE AND OBTAINED PRODUCTS

Priority: FR19940013912 19941121

Family:

Publication number	Publication date	Application number	Application date
EP0712813 A1	19960522	EP19950402539	19951114
FR2727106 A1	19960524	FR19940013912	19941121
FR2727106 B1	19961227	FR19940013912	19941121

Probable Assignee: SAINT GOBAIN VITRAGE

Assignee(s):(std)**:** SAINT GOBAIN VITRAGE

Inventor(s):(std)**:** BEYRLE ANDRE

Designated states: BE DE ES FR GB IT LU NL PT

International class (IPC 8–9)**:** C03C8/14 (Advanced/Invention); C03C8/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00 C03C17/23 C03C8/14

CPC: C03C8/14

European class: C03C8/14

Classification Explorer

Cited documents: EP0603830 A2, EP0201241 A2, EP0200475 A2, DE2451282 A1,

Forward Citations: WO9641773, WO15145073, WO07028913, WO0121540, EP1947485,

Abstract:
An enamel compsn. for coating glass substrates consists of glass frit and pigment in a ratio of 65/35 to 30/70 with at least 10 pbw of the pigment being pigment which does not modify the chromaticity of the enamel.

0) US5796071A – PANE FOR AUTOMOBILE VEHICLE

44) Family number: 10224274 (US5796071A) © PatBase

Title: Pane for automobile vehicle

Priority: FR19950001964 19950221

Family:

Publication number	Publication date	Application number	Application date
BRPI9600758 A	19990112	BR1996PI00758	19960216
CN1141249 A	19970129	CN19961006048	19960220
CZ9600517 A3	19960911	CZ19960000517	19960221
DE69607405 D1	20000504	DE19966007405	19960216
DE69607405 T2	20001221	DE19966007405T	19960216
EP0728711 A1	19960828	EP19960400323	19960216
EP0728711 B1	20000329	EP19960400323	19960216
ES2145981 T3	20000716	ES19960400323T	19960216
FR2730724 A1	19960823	FR19950001964	19950221
FR2730724 B1	19970404	FR19950001964	19950221
IN00257CA1996 A	20160826	IN1996CA00257	19960212
IN186328 A	20010811	IN1996CA00275	19960212
JP8239243 A2	19960917	JP19960034101	19960221
KR100404811 B1	20040401	KR19960005186	19960221
KR19960031179 A	19960917	KR19960005186	19960221
PL180396 B1	20010131	PL19960312878	19960221
PL312878 A1	19960902	PL19960312878	19960221
US5796071 A	19980818	US19960604608	19960221

Probable Assignee: SAINT GOBAIN VITRAGE

Assignee(s):(std)**:** SAINT GOBAIN SA ; SAINT GOBAIN VITRAGE ; SAINT GOBAIN VITRAGE COURBEVOI

Assignee(s): SAINT GOBAIN VITRAGE INTERNATIONAL ; SAINT GOBAIN VITRAGE COURBEVOIE ; SAINT GOBAIN VITRAGE INT

Inventor(s):(std)**:** BEYRLE ANDRE ; BEYRLE ANDRE ING ; MORIN CLAUDE ; MORIN CLAUDE ING ; KUROODO MORAN ; ANDORE BEIRURU ; CLAUDI MORIN

Inventor(s): CLAUDE MORIN ; ANDRE BEYRLE

Agent(s): KAWAGUCHI YOSHIO

Designated states: BE DE ES FR GB IT LU NL PT SE

International class (IPC 8–9)**:** B06B3/26 B32B17/10 B32B27/18 B32B27/20 B32B3/24 B32B7/02 B32B9/00 B60J1/00 B60J1/02 B60J3/00 B60J3/06 C03C17/00 C03C17/06 C03C17/32 H05B3/84 H05B3/86 (Advanced/Invention); B60J1/02 B60J3/06 (Advanced/Non–invention); B32B17/06 B32B27/18 B32B27/20 B32B3/24 B32B7/02 B32B9/00 B60J1/00 B60J3/00 C03C17/00 C03C17/06 C03C17/28 H05B3/84 (Core/Invention)

International class (IPC 1–7)**:** B32B17/10 B32B27/18 B32B27/20 B32B3/24 B32B7/02 B32B9/00 B44L5/08 B60J1/00 B60J1/02 B60J1/18 B60J1/20 B60J3/00 B60J3/06 B60L1/02 C03C17/00 C03C17/00 C03C17/06 C03C17/06 C03C17/22 C03C17/23 C03C17/32 C03C8/00 E06B3/24 H05B3/26 H05B3/84 H05B3/86

CPC: C03C17/008 C03C17/06 C03C2217/256 C03C2218/119 H05B3/84 H05B2203/013

European class: C03C17/00D4 C03C17/06 H05B3/84 M03C217/256 M03C218/119 T05B203/013

US class: 219/203 428/34 428/38

Classification Explorer

Cited documents:

US5162145 A, US5128513 A, US5099104 A, US4971848 A, US4952783 A, US4820902 A, US4786784 A, US4459470 A, US4443691 A, JP4042835, GB2091528 A1, FR2497731 A1, EP0574625 A1, EP0396449 A1, EP0193464 A2, DE3708577 A1,

Forward Citations: WO15097219, WO06030165, WO05068385, WO0181262, US8895897, US8816256, US6441108, US6410120, US6255624, US6137086, US6040939, US2015232067, US2005271837, US2005040151, KR101479592, KR101224318, JP5416701, JP2011501715, JP2008523566, FR2875669, EP3116287, EP3036204, EP2265086, EP2265086, EP2264360, EP2201817, EP1697268, DE10313292, CN102173595, BE1016772, BE1016772,

Abstract:
Source: US5796071A This invention concerns a pane, particularly a pane for an automobile vehicle, especially a rear window or side window, comprising a glass sheet coated on its inner face, i.e., the face intended to be towards the passenger compartment, with a network based upon an enamel composition of low emissivity and/or conductive of electricity, this network extending over, essentially, the entire area of the glass sheet corresponding to the viewing field, with a rate of coverage by the enamel composition of between 20 and 90 percent, and preferably between 25 and 80 percent of the area over which the network extends.

0) US5850070A – ELECTRICALLY HEATABLE LAMINATED GLASS GLAZING F...

45) Family number: 30393859 (US5850070A) © PatBase

Title: Electrically heatable laminated glass glazing for cars

Priority: DE19951041609 19951108 DE19966006496 19961107 KR19950044861 19951129

Family:

Publication number	Publication date	Application number	Application date
AT189572 E	20000215	AT19960402373T	19961107
BRPI9605487 A	19980811	BR1996PI05487	19961107
CZ287675 B6	20010117	CZ19960003275	19961107
CZ9603275 A3	19970514	CZ19960003275	19961107
DE19541609 A1	19970515	DE19951041609	19951108
DE19541609 C2	19980219	DE19951041609	19951108
DE69606496 D1	20000309	DE19966006496	19961107
DE69606496 T2	20000803	DE19966006496T	19961107
EP0773706 A2	19970514	EP19960402373	19961107
EP0773706 A3	19971119	EP19960402373	19961107
EP0773706 B1	20000202	EP19960402373	19961107
ES2144218 T3	20000601	ES19960402373T	19961107
JP4149010 B2	20080910	JP19960296616	19961108
JP9165236 A2	19970624	JP19960296616	19961108
KR100430702 B1	20040731	KR19960052351	19961106
KR19970026965 A	19970624	KR19960052351	19961106
MX9605425 A1	19971031	MX19960005425	19961107
PL181886 B1	20011031	PL19960316894	19961108
PL316894 A1	19970512	PL19960316894	19961108
PT773706 T	20000731	PT19960402373T	19961107
US5850070 A	19981215	US19960744247	19961105

Probable Assignee: SAINT GOBAIN VITRAGE

Assignee(s):(std)**:** SEKURIT SAINT GOBAIN DEUTSCH ; SAINT GOBAIN SA ; SAINT GOBAIN VITRAGE

Assignee(s): SAINT GOBAIN VITRAGE COURBEVOIE ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG 52 ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG 52066 AACHEN DE

Inventor(s):(std)**:** VANASCHEN LUC ; TRIEBS FRIEDRICH ; RUU BANASHIEN ; PIKHARD SIEGFRIED ; MANFUREETO GIRUNAA ; KAARIN BUREERINGU ; JIIKUFURIITO PIKIARUTO ; GILLNER MANFRED ; FURIIDORITSUHI TORIIBUSU ; BRORING KARIN DR ; BRORING KARIN ; BRORING DR ; BROERING KARIN DR ; BROERING KARIN ; TRIEBS FIEDRICH

Inventor(s): TRIEBS FRIEDRICH 52076 AACHEN DE ; VANASCHEN LUC EUPEN BE ; BROERING KARIN DR 52072 AACHEN DE ; FIEDRICH TRIEBS ; GILLNER MANFRED 52078 AACHEN DE ; KARIN BROERING ; PIKHARD SIEGFRIED 52159 ROETGEN DE ; SIEGFRIED PIKHARD ; MANFRED GILLNER ; LUC VANASCHEN ; KARIN BRORING ; FRIEDRICH TRIEBS

Agent(s): KAWAGUCHI YOSHIO

Designated states: AT BE DE ES FR GB IT LU NL PT SE

International class (IPC 8–9): B32B17/10 C03C27/06 C03C27/12 H05B3/84 H05B3/86 (Advanced/Invention); C03C27/06 (Advanced/Non–invention); B32B17/06 C03C27/12 H05B3/84 (Core/Invention)

International class (IPC 1–7): B32B17/10 B60J1/00 B60J1/20 C03B32/00 C03C27/06 C03C27/12 H05B3/06 H05B3/84 H05B3/86

CPC:

	B32B17/10036 B32B17/10376 B32B17/10761 B32B2305/345 H05B3/84 H05B3/86 H05B2203/016
European class:	B32B17/10C4 B32B17/10E32 B32B17/10G28 H05B3/84 H05B3/86 L32B305/34B T05B203/016
US class:	219/203 219/522
Classification Explorer	
Cited documents:	US5540961 A, US5132162 A, US5099105 A, US5099104 A, US5071692 A, US4929493 A, US4910380 A, US4786784 A, US4744844 A, US4654067 A, EP0025755 A1, DE9411516 U, DE9313394 U,
Forward Citations:	US8031277, US7205504, US6953911, US6791066, US6791065, US6180921, US2006027550, US2005023264, DE102005062272, DE102005062272,

Abstract:
Source: US5850070A An electrically heatable laminated glass glazing includes an inner glass sheet, an outer glass sheet and an intermediate thermoplastic film interconnecting the two glass sheets. Collector conductors constituted by foil strips serve as power supply conductors for heating resistors are embedded in the intermediate film from the side adjacent to the inner glass sheet. The free surface of the inner glass sheet is provided with a decorative frame of an opaque baking ink. An opaque coating, whose color is adapted to that of the decorative frame, is joined to the surface of the foil strip directed towards the intermediate film. The coating is preferably constituted by an inked polymer sheet having a width slightly greater than that of the foil strip.

0) US5891280A – METHOD AND APPARATUS FOR THE DEPOSITION AND FIX...

46) Family number: 30395295 (US5891280A) © PatBase

Title: METHOD AND APPARATUS FOR THE DEPOSITION AND FIXING OF A THIN METAL WIRE ON A THERMOPLASTIC FILM OF A GLAZING OF LAMINATED GLASS

Priority: DE19951041427 19951107 DE19966007563 19961107

Family:

Publication number	Publication date	Application number	Application date
AT191602 E	20000415	AT19960402372T	19961107
BRPI9605444 A	19980804	BR1996PI05444	19961106
BRPI9605444 B1	20090505	BR1996PI05444	19961106
CN1132504 C	20031224	CN19961021637	19961106
CN1159991 A	19970924	CN19961021637	19961106
CZ290621 B6	20020911	CZ19960003264	19961106
CZ9603264 A3	19970514	CZ19960003264	19961106
DE19541427 A1	19970515	DE19951041427	19951107
DE69607563 D1	20000511	DE19966007563	19961107
DE69607563 T2	20001102	DE19966007563T	19961107
EP0773705 A2	19970514	EP19960402372	19961107
EP0773705 A3	19971119	EP19960402372	19961107
EP0773705 B1	20000405	EP19960402372	19961107
ES2146371 T3	20000801	ES19960402372T	19961107
JP3964487 B2	20070822	JP19960295390	19961107
JP9169077 A2	19970630	JP19960295390	19961107
KR100429324 B1	20040901	KR19960054150	19961115
MX9605396 A1	19980531	MX19960005396	19961106
PL180821 B1	20010430	PL19960316866	19961107
PL316866 A1	19970512	PL19960316866	19961107
PT773705 T	20000929	PT19960402372T	19961107
RO117744 B1	20020628	RO19960002110	19961107
US5891280 A	19990406	US19960744326	19961107

Probable Assignee: SAINT GOBAIN VITRAGE

Assignee(s):(std)**:** SAINT GOBAIN SA ; SAINT GOBAIN VITRAGE ; SAINT GOBAIN VITRAGE COURBEVOIE ; SEKURIT SAINT GOBAIN DEUTSCH ; SAINT GOBAIN

Assignee(s): SAINT GOBAIN GLASS FRANCE ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO 52066 AACHEN DE KG ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG 52 ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG 52066 AACHEN DE

Inventor(s):(std)**:** J VANASCHEN ; LUE VANASCHEN ; M GILLNER ; MANFRED GILLNER ; S PIKHARD ; SIEGFRIED PIKHARD ; ZUIIKUFURIITO PIKIARUDO ; VANASCHEN LUE ; VANASCHEN LUC ; VANASCHEN J ; RUU BANASHIEN ; PIKHARD SIEGFRIED ; PIKHARD S ; MANFUREETO GIRUNAA ; IRUANSUUYURUGEN ETSUKUSUTEIN ; GILLNER MANFRED ; GILLNER M ; ECKSTEIN HANS JURGEN ; ECKSTEIN HANS JUERGEN ; PIKHARDT SIEGFRIED

Inventor(s): LUC VANASCHEN ; HANS JURGEN ECKSTEIN ; SIEGFRIED PIKHARDT ; VANASCHEN LUC EUPEN BE ; ECKSTEIN HANS JUERGEN 41516 GREVENBROICH DE ; GILLNER MANFRED 52078 AACHEN DE ; PIKHARD SIEGFRIED 52159 ROETGEN DE

Agent(s): KAWAGUCHI YOSHIO

Designated states: AT BE DE ES FI FR GB IT LU NL PT SE

International class (IPC 8–9): B29C65/00 B32B15/02 B32B17/00 C03C17/32 H05B3/84 H05B3/86 (Advanced/Invention); B29C65/00 (Advanced/Non–invention);

	B29C65/00 B32B15/02 B32B17/00 C03C17/28 H05B3/84 (Core/Invention)
International class (IPC 1–7):	B29C65/00 B32B15/02 B32B17/00 B32B31/00 B60J1/20 B60T1/00 C03B13/00 C03C17/32 H05B3/84 H05B3/86
CPC:	Y10T156/1052 Y10T156/17 H05B3/86 H05B2203/017
European class:	H05B3/86 T05B203/017
US class:	156/250 156/285 156/538 156/64
Classification Explorer	
Cited documents:	US5282301 A, US5164254 A, US5071692 A, US4395622 A, US4284452 A, US3720808 A, EP0443691 A2, EP0032139 A2, DE4201620 A1, DE2329030 A1, CH434005 A,
Forward Citations:	WO06010346, WO04077496, WO04077496, US2007281049, TWI341786, JP4705907, JP4143142, JP2006518912, JP10006929, EP1145842, EP0788295, EP0788294, DE20321682, DE10352464, DE10316388, DE102004060032, DE10018276, CN103200718, CN103200718,

Abstract:
Source: US5891280A Thin resistance wires are deposited in curved form on a thermoplastic film for the manufacture of a car glazing which can be electrically heated. The thermoplastic film is kept by vacuum on the surface of a cylindrical drum having a perforated cylindrical wall. The drum is rotated and the wire deposited and fixed on the film with the aid of a wire deposition apparatus. The wire deposition apparatus is mounted on a carriage able to move parallel to the longitudinal axis of the drum. The carriage is driven by means of a moving screw rotated by a drive motor. The drive motor is controlled by a processor via a regulating amplifier controlled by the processor in accordance with a time−travel program established in accordance with the desired curved shape of the wires.

0) US5698907A – MOTOR VEHICLE ELECTRIC WINDOW CONTROL AND CLOSU...

47) Family number: 14988179 (US5698907A) © PatBase

Title: MOTOR VEHICLE ELECTRIC WINDOW CONTROL AND CLOSURE OVERRIDE METHOD AND APPARATUS

Priority: US19950378584 19950126

Family:

Publication number	Publication date	Application number	Application date
US5698907 A	19971216	US19950378584	19950126

Probable Assignee: WEBER HAROLD J TRUSTEE AS

Assignee(s):(std)**:** WEBER HAROLD J

Assignee(s): WEBER HAROLD J TRUSTEE AS

Inventor(s):(std)**:** WEBER HAROLD J

International class (IPC 8–9)**:** B60J7/057 (Advanced/Invention); B60J7/04 (Core/Invention)

International class (IPC 1–7)**:** H02P7/68

CPC: E05Y2400/42 E05Y2900/542 E05Y2900/55 E05Y2400/854 E05Y2400/86 E05Y2800/426 B60J7/0573 E05F15/40 E05F15/695 E05F15/70

European class: B60J7/057B E05F15/16C3 E05F15/20 P05Y900/542 P05Y900/550

US class: 307/10.1

Classification Explorer

Cited documents: US5381065 A, US5194756 A, US5129192 A, US5079538 A, US4864153 A, US4733145 A, US4427929 A,

Forward Citations: US9713561, US9440618, US8652264, US7638961, US7410198, US7352081, US7178854, US7061196, US6944528, US6748308, US6650025, US6590301, US6573678, US6541929, US6481749, US5994797, US5952731, US2017145729, US2015343992, US2015224008, US2013087169, US2008309165, US2006181152, US2006175865, US2005212470, US2004251837, FR2792673, EP1394751, EP1394751, EP1046771,

Abstract:
Source: US5698907A Motor vehicle electric window regulator antilock control function enabling a motor vehicle operator to belatedly close any vehicle windows inadvertently remaining open subsequent to usual ignition key withdrawal and electrical system lockup of the motor vehicle without necessitating the inconvenient reinsertion of the ignition key to reactivate the electric window regulator system. Post–exit closure of windows may also be provided whereby any inadvertently left–open windows may be closed after the operator has exited from and even locked–up the vehicle. In another setting in a vehicle using electric door locks, lock–up is denied if any windows are left open. Still another arrangement brings about automatic window roll–up whenever certain acts occur, such as when the ignition key is turned–off, the driver's door is opened, or electric locks are set to lock the vehicle.

48) Family number: 29435569 (US6039390A) © PatBase

Title: CHROMOGENIC WINDOW ASSEMBLY CONSTRUCTION AND OTHER CHROMOGENIC DEVICES

Priority: US19960699940 19960820 US19970914876 19970820 US20000493263 20000128 WO1997US14558 19970820 US20000595315 20000616

Family:

Publication number	Publication date	Application number	Application date
AU199741533 A1	19980306	AU19970041533	19970820
EP0923754 A1	19990623	EP19970939446	19970820
US6039390 A	20000321	US19970914876	19970820
US6493128 BA	20021210	US20000493263	20000128
US6528782 BA	20030304	US20000595315	20000616
WO9808137 A1	19980226	WO1997US14558	19970820

Probable Assignee: SCHOTT DONNELLY LLC SMART GLASS SOLUTIONS

Assignee(s):(std)**:** DONNELLY CORP ; SCHOTT DONNELLY LLC

Assignee(s): SCHOTT DONNELLY LLC SMART GLASS SOLUTIONS

Inventor(s):(std)**:** AGRAWAL ANOOP ; BAERTELIN CARL ; BAERTLEIN CARL ; FISCHER DOUGLAS ALAN ; HANSEN STEPHAN ; LECOMPTE BOB ; LECOMPTE ROBERT STEVEN ; TONAZZI JUAN CARLOS LOPEZ ; ZHANG RAYMOND

Inventor(s): ROBERT STEVEN LECOMPTE ; JUAN CARLOS LOPEZ TONAZZI ; DOUGLAS ALAN FISCHER ; CARL BAERTLEIN ; ANOOP AGRAWAL

Agent(s): E F WELLINGTON AND CO

Designated states: AT AU BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** B60J3/04 E06B9/24 G02F1/01 G02F1/13 G02F1/133 G02F1/153 G02F1/163 (Advanced/Invention); G02F1/01 G02F1/153 G02F1/163 (Advanced/Non–invention); B60J3/00 E06B9/24 G02F1/13 (Core/Invention); G02F1/01 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/20 B60J3/04 E06B3/66 E06B9/24 G01J3/50 G02F1/1335 G02F1/15 G02F1/153 G02F1/17

CPC: B32B17/10467 B32B17/10513 B32B17/10036 Y02T10/90 B60J3/04 E06B9/24 E06B2009/2464 G02F1/011 G02F1/13318 G02F1/133308 G02F1/133382 G02F1/153 G02F1/163

European class: B32B17/10C4 B60J3/04 E06B9/24 G02F1/1333E G02F1/133D2 P06B9/24F S02F1/01C S02F1/1333V S02F1/133D2 S02F1/153 S02F1/163 Y02T10/88

US class: 244/129.3 250/205 250/226 296/211 296/215 349/16 359/241 359/265 359/275 52/171.3 52/204.5 52/786.1

Classification Explorer

Cited documents: WO9624882 A1, USRE30835 E, US6099283 A, US5763050 A, US5733483 A, US5659417 A, US5604626 A, US5589958 A, US5524955 A, US5472643 A, US5466037 A, US5434371 A, US5424898 A, US5424865 A, US5384578 A, US5377037 A, US5261722 A, US5241411 A, US5239406 A, US5233461 A, US5220317 A, US5148014 A, US5142407 A, US5122647 A, US5076674 A, US5076673 A, US5073012 A, US5066112 A, US5042923 A, US5009044 A, US5007718 A, US4893908 A, US4799768 A, US4793690 A, US4750816 A, US4749261 A, US4712879 A, US4702566 A, US4671619 A, US4652090 A, US4475031 A, US4338000 A, US4306769 A, US4268126 A, US4217391 A, US4174152 A, US4164365 A, US3807832 A, US3521941 A, US30835 A, JP63106731 A2, JP63106730 A2, JP59032521 A2, JP58020729 A2, JP32521, JP282021, JP1282021 A2, JP1215621 A2, GB2268595 A1, GB2055942 A1, EP0238164 A1, DE3816069 A1, CA698472 A,

Forward Citations: WO15050946, WO14065823, WO11133830, WO11017588, WO10149284, WO10124279, WO09030406, WO09030406, WO09019033, WO09002350, WO08029982, WO05008010, WO05008010, WO02071138, WO0077564, WO0013060, WO0013060, USD585365,

US9797141, US9765522, US9736028, US9733478, US9728920, US9694740, US9690162, US9671665, US9664976, US9645465, US9638978, US9618819, US9539883, US9521726, US9517721, US9511650, US9504133, US9482922, US9482399, US9470828, US9454055, US9436055, US9436054, US9423664, US9365281, US9360747, US9353938, US9351381, US9341912, US9341909, US9335565, US9333728, US9268157, US9217582, US9215780, US9200452, US9170465, US9146438, US9146437, US9146012, US9130097, US9128346, US9126474, US9116370, US9110345, US9081246, US9057535, US9042085, US9016630, US8988757, US8967538, US8921751, US8891153, US8885242, US8884203, US8882185, US8827347, US8801220, US8787590, US8781676, US8779340, US8749870, US8736943, US8729446, US8678483, US8668989, US8662577, US8632034, US8611828, US8601745, US8599466, US8514476, US8432600, US8417127, US8406632, US8380393, US8375657, US8362700, US8344912, US8322073, US8292228, US8280398, US8256940, US8248680, US8219217, US8200390, US8115984, US8076870, US8070902, US8064120, US8048529, US7980031, US7976189, US7970172, US7954281, US7893890, US7826113, US7822490, US7782519, US7776436, US7773284, US7772966, US7771103, US7738155, US7677495, US7610910, US7607266, US7542809, US7535614, US7505136, US7429827, US7405523, US7355161, US7348896, US7330102, US7327226, US7300166, US7278241, US7275716, US7266930, US7266204, US7254927, US7245205, US7196477, US7185464, US7149026, US7085609, US7082736, US7082726, US7080874, US7021006, US7012729, US6995892, US6980092, US6969920, US6965813, US6957520, US6939612, US6937380, US6906842, US6871902, US6802162, US6795226, US6786610, US6783099, US6759945, US6753047, US6750823, US6750414, US6640142, US6630813, US6622812, US6536828, US6491338, US6466298, US6465963, US6459460, US6428216, US6407712, US6405105, US6369935, US6305123, US6294258, US6199933, US6166698, US2017008449, US2016214467, US2016130816, US2016109778, US2016011483, US2015369434, US2015362143, US2015286057, US2015153639, US2015122474, US2015103389, US2015098121, US2015073204, US2014320947, US2014146382, US2014118810, US2013193721, US2013158790, US2013147239, US2013043347, US2013038093, US2012280537, US2012203601, US2012153684, US2012113623, US2012004523, US2011266953, US2011214712, US2011209319, US2011199976, US2011187984, US2011122554, US2011046810, US2011030290, US2011029194, US2010315717, US2010224838, US2010175819, US2010119242, US2010119233, US2010079844, US2010031590, US2009323160, US2009302783, US2009293386, US2009279004, US2009204269, US2009176101, US2009168185, US2009121970, US2009115922, US2009102387, US2009085497, US2008315163, US2008310007, US2008259433, US2008239451, US2008239422, US2008234893, US2008230653, US2008224034, US2008218434, US2008104903, US2008074724, US2008061236, US2008055731, US2008048101, US2008042012, US2007291383, US2007271848, US2007236228, US2007179239, US2007177161, US2007170870, US2007075876, US2007068096, US2007067048, US2007064446, US2007058114, US2007019273, US2006226949, US2006097855, US2006011309, US2005268629, US2005248285, US2005233125, US2005231527, US2005231336, US2005200934, US2005200933, US2005184561, US2005168794, US2005152218, US2005135101, US2005063036, US2005023413, US2005005542, US2005000174, US2004247883, US2004246607, US2004241385, US2004240029, US2004233537, US2004100676, US2004042223, US2004028881, US2004020754, US2004012762, US2003233172, US2003227664, US2003227663, US2003192991, US2003079422, US2003057733, US2002158805, US2002140884, RU2621282, JP6206539, GB2448041, GB2448041, FR3023510, FR2909316, FR2821937, EP2956322, EP2841671, EP2799927, EP2517332, EP2517332, EP2080648, EP1762885, EP1297380, EP1295169, EP1110123, DE102008045552, CN103991366, CN103163706, CN102947133, CN102472890, CN102472890, AU765097, AU2010279364,

Abstract:
Source: US6039390A A chromogenic window panel assembly, and a chromogenic skylight each includes an outer panel and a chromogenic member having an optical property which varies according to an applied signal. A chromogenic light pipe includes a light harvesting member and a chromogenic member having an optical property which varies according to an applied signal. A chromogenic vehicle sunroof, a chromogenic aircraft window assembly, and a chromogenic window assembly each includes a panel having a particular panel contour corresponding to a surface contour and a chromogenic panel having an optical property which varies according to an applied signal. A chromogenic block includes two panels and a chromogenic panel having an optical property which varies according to an applied signal.

0) US5938252A – DOOR MEMBER LOCKING/UNLOCKING APPARATUS

49) Family number: 11673361 (US5938252A) © PatBase

Title: DOOR MEMBER LOCKING/UNLOCKING APPARATUS

Priority: JP19960221427 19960822 JP19960316640 19961127 JP19970159748 19970617 JP19970159750 19970617 JP19970159749 19970617 JP19970159751 19970617

Family:

Publication number	Publication date	Application number	Application date
DE19736445 A1	19980226	DE19971036445	19970821
DE19736445 B4	20060608	DE19971036445	19970821
JP10115138 A2	19980506	JP19960316640	19961127
JP11006341 A2	19990112	JP19970159751	19970617
JP11006344 A2	19990112	JP19970159748	19970617
JP11006345 A2	19990112	JP19970159749	19970617
JP11006346 A2	19990112	JP19970159750	19970617
JP3160553 B2	20010425	JP19970159748	19970617
JP3160554 B2	20010425	JP19970159750	19970617
JP3232251 B2	20011126	JP19960316640	19961127
US5938252 A	19990817	US19970916988	19970821

Probable Assignee: ASMO CO LTD

Assignee(s):(std)**:** ASMO CO LTD ; DENSO CORP ; NIPPON DENSO CO

Assignee(s): ASMO CO LTD KOSAI SHIZUOKA JP ; ASMO CO

Inventor(s):(std)**:** UEMURA KEIICHI ; KONDO MITSUHIRO ; KAMIMURA KEIICHI

Inventor(s): KONDO MITSUHIRO KOSAI SHIZUOKA JP ; UEMURA KEIICHI KARIYA AICHI JP

International class (IPC 8–9)**:** B60J5/00 E05B47/00 E05B65/00 E05B65/12 E05B65/19 E05B65/20 E05B65/32 E05B77/40 E05B79/04 E05B81/20 E05B81/32 E05B81/42 E05B81/48 E05B81/56 E05B81/64 E05B81/66 E05B81/68 E05B81/76 E05B81/90 E05B83/18 E05B83/36 E05B85/24 (Advanced/Invention); E05B47/00 (Advanced/Non–invention); B60J5/00 E05B47/00 E05B65/00 E05B65/12 E05B65/20 E05B65/32 (Core/Invention); E05B47/00 (Core/Non–invention)

International class (IPC 1–7)**:** B60J5/00 E05B47/00 E05B65/00 E05B65/12 E05B65/19 E05B65/20 E05B65/32 E05C3/06

CPC: Y10S292/23 E05B81/21 E05B81/14 E05B81/20 E05B81/64 E05B81/68 Y10T292/1047 Y10T292/1082

European class: E05B81/14 E05B81/20 P05B47/00E6

US class: 292/201 292/216 292/DIG.23

Classification Explorer

Cited documents: US5639130 A, US5564761 A, US5288115 A, US5180198 A, US4948183 A, JPS63230871, JPS60148974, JPS598462, JPS5883777, JPS58178778, JPS58153873, JP63230871 A2, JP60148974 A2, JP59008462 A2, JP58178778 A2, JP58153873 A2, JP58083777 A2, JP5027748 A2, JP2515711 T2, JP2503445 T2, DE8322896 U, DE3523547 A1,

Forward Citations: WO16041848, WO15062876, WO11070920, WO10012272, WO10012272, WO09151008, WO09149685, WO09149685, WO09149684, WO09056119, WO09056119, WO07088170, WO0181695, WO0118333, US9777515, US9714532, US9677318, US9574379, US9567781, US9428943, US9290969, US8919828, US8851533, US8844984, US8757682, US8757681, US8757679, US8651536, US8608212, US8480138, US8044767, US7959205, US7827836, US7552952, US7500700, US7416229, US7380844, US7360803, US7210714, US7175228, US7150480, US7093887, US6936983, US6659515, US6568720, US6522095, US6435573, US6428059, US6422617, US6048002, US2016290657, US2016130840, US2016052376, US2015308161, US2015096233, US2015042110, US2015035292, US2014203572, US2013049379, US2012248796, US2012068480, US2012061977, US2012001442,

US2011187132, US2011187129, US2011127780, US2011084504, US2010259061, US2010194120, US2010117379, US2010052336, US2008023971, US2007210588, US2007205613, US2007090655, US2007007774, US2006267351, US2006213242, US2006208502, US2006202488, US2006055181, US2005039404, US2004227357, US2004195844, US2004012352, KR100819699, KR100736977, JP5520025, JP5450021, JP5285969, JP4644578, JP4376825, JP4323214, JP4142236, JP4133165, JP4050008, JP4028166, JP2016048951, JP2011122354, JP2011122353, JP2009299313, JP2009243114, JP2008002208, JP2007100475, JP2007100390, JP2006328708, JP2006207324, JP2006207323, JP2005068783, JP2004332420, JP2004116042, JP2002542139, JP2002339624, JP2002121947, JP2002021400, FR2896818, FR2805560, FR2779469, FR2778939, EP2990572, EP2865828, EP2348173, EP2348173, EP1686024, EP1243725, EP1188890, EP1188890, EP1176273, EP1136745, EP1076141, EP0964119, DE19934753, DE10231825, CN105683465, CN102652202, CN102652202,

Abstract:
Source: US5938252A A door member locking/unlocking apparatus comprises a motor for driving an output shaft rotationally, and a latch rotatably hinged in a position to engage with a striker for retaining a door member in a closed state and urged in a direction to disengage from the striker. A first ratchet regulates the latch in a partially latched position and in a fully latched position. A second ratchet turns the latch from the partially latched position to the fully latched position. An engaging pin provided on the first ratchet releases the retention of the latch in the fully latched position by the first ratchet. A cam is arranged to have an axis of rotation in parallel with that of the latch. The cam is rotationally driven by the motor for actuating the second ratchet and the engaging pin.

0) US6008473A – HEATED REAR SCREEN MADE OF LAMINATED GLASS

50) Family number: 17014380 (US6008473A) © PatBase

Title: Heated rear screen made of laminated glass

Priority: DE19982003544U 19980228 KR19990006425 19990226

Family:

Publication number	Publication date	Application number	Application date
BRPI9900800 A	19991228	BR1999PI00800	19990224
DE29803544 U1	19980423	DE19982003544U	19980228
EP0939580 A2	19990901	EP19990400386	19990218
EP0939580 A3	20000621	EP19990400386	19990218
JP11283734 A2	19991015	JP19990052231	19990301
KR19990072954 A	19990927	KR19990006425	19990226
PL331663 A1	19990830	PL19990331663	19990226
US6008473 A	19991228	US19990257942	19990226

Probable Assignee: SAINT GOBAIN VITRAGE

Assignee(s):(std)**:** SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN SA ; SAINT GOBAIN VITRAGE ; SEKURIT SAINT GOBAIN DEUTSCH

Assignee(s): SAINT GOBAIN VITRAGE LES MIROIRS ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG 52 ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG 52066 AACHEN DE

Inventor(s):(std)**:** MUELLER KARL HEINZ ; HOETZ BERND ; GILLNER MANFRED

Inventor(s): BERND HOETZ ; MANFRED GILLNER ; K H MUELLER ; MUELLER K H

Agent(s): TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): H05B3/84 H05B3/86 (Advanced/Invention); B60S1/58 (Advanced/Non–invention); H05B3/84 (Core/Invention)

International class (IPC 1–7): B60J1/18 B60J1/20 B60S1/58 H05B3/84 H05B3/86

CPC: B32B17/10036 B32B17/10376 H05B3/84 H05B3/86 H05B2203/003 H05B2203/014 H05B2203/016

European class: B32B17/10C4 B32B17/10E32 H05B3/84 H05B3/86 T05B203/003 T05B203/014 T05B203/016

US class: 219/202 219/522

Classification Explorer

Cited documents: US5543601 A, US4321296 A, US4244774 A, US4119425 A, US3995142 A, US3903396 A, US3752348 A, US3729616 A, US3590371 A, EP0349916 A1,

Forward Citations: WO09059980, WO07076502, US9796362, US9630396, US8800482, US8546729, US8461495, US8450660, US7265323, US7241964, US7053343, US7002115, US6914224, US2012261404, US2010266832, US2007181565, US2007175175, US2007151966, US2006011598, US2005269312, US2005115954, US2005072455, US2004232117, US2004195233, US2004159645, JP2011504431, EP3102000, EP1577133, DE10018276, CN101849429,

Abstract:
Source: US6008473A An electrically heated rear screen including a window formed of laminated glass layers separated by a thermoplastic interlayer and having electrical connection elements provided at opposed lateral edges of the window. Plural parallel connected horizontally extending resistive heating wires are embedded in the thermoplastic interlayer. The resistive heating wires are formed as meandering loops having an odd number of loop segments extending across the width of the window. At the opposed lateral edges of the window, the resistive heating wires have opposed end segments which follow a path along the corresponding lateral edges of the rear screen a short distance apart to a respective common electrical connection element.

0) EP0865148A1 – COLLECTOR MOTOR WITH OPERATING SENSOR KOMMUTAT...

51) Family number: 11902313 (EP0865148A1) © PatBase

Title: Collector motor with operating sensor

Priority: DE19971010014 19970312

Family:

Publication number	Publication date	Application number	Application date
DE19710014 A1	19980917	DE19971010014	19970312
EP0865148 A1	19980916	EP19980102465	19980213
KR19980080049 A	19981125	KR19980007802	19980310

Probable Assignee: BOSCH GMBH ROBERT

Assignee(s):(std)**:** BOSCH GMBH ROBERT

Assignee(s): ROBERT BOSCH GMBH

Inventor(s):(std)**:** DREIER FRIEDRICH WILHELM ; MOSKOB FRANK ; WEBER MATTHIAS

Inventor(s): WEBER MATTHIAS 76534 BADEN BADEN DE ; MOSKOB FRANK 77815 BUEHL DE ; DREIER FRIEDRICH WILHELM 76547 SINZHEIM DE

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): H02K23/66 H02K5/167 H02K5/22 (Advanced/Invention); H02K5/14 H02K5/15 H02K7/116 (Advanced/Non–invention)

International class (IPC 1–7): B60J1/17 B60J7/057 B60R1/02 G01P13/00 G01P3/42 H01R39/38 H02K11/00 H02K23/66 H02K5/14 H02K5/15 H02K5/22 H05K1/18

CPC: H02K5/148 H02K5/15 H02K5/1672 H02K5/225 H02K7/1166 H02K23/66 H02K2211/03

European class: H02K23/66 H02K5/167C H02K5/22B T02K211/03 T02K5/14C3 T02K5/15 T02K7/116B1

Classification Explorer

Cited documents: WO9214927 A2, GB2266389 A1, FR2691854 A1, EP0629035 A1, EP0618659 A1, DE4326391 A1, DE4315404 A1, DE3634214 A1,

Forward Citations: WO02075899, WO0199259, WO0173926, WO0161828, US7261012, US7138736, US6906438, US6759783, KR100809306, EP1412603, EP1229632, EP1173918, DE10244102, DE10228689, DE10228689, DE102014225357, DE102012025109, DE10010439, DE10010439,

Abstract:
The motor has a brush holder (20) and a bearing plate (40) on the commutator side with an armature shaft bearing (42) and at least one motor operation sensor (56). The bearing plate and the motor operation sensor are mounted on the brush holder. The bearing plate can be plugged onto the brush holder or can be made in one piece with the brush holder. The brush holder can act as the carrier for a circuit board.

0) US2001024370A – A SUN VISOR HAVING AN ELECTRO–LUMINESCENT FILM ...

52) Family number: 30467969 (US2001024370A) © PatBase

Title: A SUN VISOR HAVING AN ELECTRO–LUMINESCENT FILM FOR ILLUMINATING A MIRROR

Priority: AT19970001730 19971013 AT19980000076U 19980212 US19970972915 19971118 US19990378111 19990820 US19990378284 19990820 WO1998EP06481 19981013

Family:

Publication number	Publication date	Application number	Application date
AT173097 A	19990215	AT19970001730	19971013
AT208302 E	20011115	AT19980965132T	19981013
AT2779 U1	19990426	AT19980000076U	19980212
AT405633 B	19991025	AT19970001730	19971013
AU199920472 A1	19990510	AU19990020472	19981013
AU740013 B2	20011025	AU19990020472	19981013
BRPI9812917 A	20001128	BR1998PI12917	19981013
CA2250266 AA	19990413	CA19982250266	19981013
CA2250290 AA	19990413	CA19982250290	19981013
CA2306284 AA	19990429	CA19982306284	19981013
DE59802095 D1	20011213	DE19985002095	19981013
EP1025387 A2	20000809	EP19980965132	19981013
EP1025387 B1	20011107	EP19980965132	19981013
ES2167960 T3	20020516	ES19980965132T	19981013
JP2001520956 T2	20011106	JP20000517222T	19981013
US2001024370 AA	20010927	US19990378111	19990820
US6286983 BA	20010911	US19990378284	19990820
US6497504 BB	20021224	US19990378111	19990820
US6641276 BA	20031104	US20000529051	20000626
WO9920936 A2	19990429	WO1998EP06481	19981013
WO9920936 A3	19990708	WO1998EP06481	19981013
WO9920936 B1	19990902	WO1998EP06481	19981013

Probable Assignee: MAGNAAUTECA ZWEIGNIEDERLASSUNG DER

Assignee(s):(std)**:** FRITZL RAIMUND ; MACHER DAVID ; MAGNA AUTECA AG ; MAGNA AUTECA AG KROTTENDORF ; MAGNA AUTECA KROTTENDORF AG ; MAGNA AUTECA ZWEIGNIEDERLASSUN ; MAGNA AUTECA ZWEIGNIEDERLASSUNG DER MAGNA HOLDING ; ZORN HEINZ ; MAGNA REFLEX HOLDING GMBH ; STARK JOHANN

Assignee(s): MAGNA REFLEX HOLDING GMBH IND ; MAGNAAUTECA ZWEIGNIEDERLASSUNG DER MAGNA HOLDING A ; MAGNAAUTECA ZWEIGNIEDERLASSUNG DER ; MAGNA AUTECA ZWEIGNIEDERLASSUNG DER MAGNA HOLDING AKTIENGESELLSCHAFT ; MAGNA AUTECA ZWEIGNIEDERLASSUNG DER MAGNA HOLDING AG

Inventor(s):(std)**:** DAVID MACHER ; FRITZL RAIMUND ; FRITZT RAIMUND ; HEINZ ZORN ; JOHANN STARK ; MACHER DAVID ; RAIMUND FRITZT ; STARK JOHANN ; ZIORN HEINZ ; ZORN HEINZ

Inventor(s): RAIMUND FRITZL

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): B60Q1/26 B60Q3/02 B60Q3/06 B60R1/12 G09F13/22 H05B33/08 (Advanced/Invention);
H05B33/12 (Advanced/Invention);
G09F13/22 (Advanced/Non–invention);
B60Q1/26 B60Q3/00 B60R1/12 H05B33/02 H05B33/12 (Core/Invention);

G09F13/22 (Core/Non–invention)

International class (IPC 1–7): B60J3/00 B60Q1/26 B60Q3/00 B60Q3/02 B60Q3/06 B60R1/06 F21S1/00 G09F13/22 G09G3/12 H05B33/00 H05B33/02 H05B33/08 H05B33/12

CPC: B60Q3/252 B60Q3/745 B60Q3/80 H05B33/12 B60Q1/2665 B60Q2400/10 B60R1/1207 G09F2013/227

European class: B60Q1/26J B60Q1/26J2 B60Q3/02B B60Q3/02B10 B60Q3/02N2 B60Q3/02R B60R1/12A H05B33/12 L60Q400/10 S09F13/22D

US class: 313/269 315/169.3 340/475 362/135 362/136 362/137 362/369 362/390 362/487 362/489 362/492 362/492P 362/494 362/498 362/504 362/540 362/84 362/84S

Classification Explorer

Cited documents: US6279170 BA, US6175191 BA, US6172613 BA, US6144156 A, US6129445 A, US6124647 A, US6121943 A, US6079839 A, US6056425 A, US6037865 A, US6010742 A, US5982105 A, US5967649 A, US5876106 A, US5818174 A, US5788357 A, US5775016 A, US5764141 A, US5620348 A, US5570945 A, US5566384 A, US5564813 A, US5482614 A, US5434013 A, US5175528 A, US5059015 A, US4979079 A, US4947296 A, US4864473 A, US3926470 A, US3621332 A, US3344269 A, US3111275 A, GB2099628 A1, EP0611040 A1, EP0334799 A2, EP0286748 A1, DE29706601 U1, DE2970660,

Forward Citations: WO11057682, WO06135595, WO06135595, WO05039925, WO05039925, WO04050426, WO04050426, WO0223509, WO0223509, WO0071386, USRE42340, US9609222, US9586526, US9573443, US9434301, US8823273, US8531120, US8382189, US8288952, US7994726, US7850350, US7794125, US7781980, US7780322, US7665870, US7534018, US7498749, US7478935, US7445350, US7443101, US7387397, US7360931, US7354166, US7336037, US7316491, US7306345, US7299892, US7287885, US7265306, US7237933, US7229196, US7213962, US7168838, US7150550, US7128461, US7128451, US7128451, US7128449, US7128449, US7119459, US7084531, US7084526, US7066629, US6984900, US6974238, US6952084, US6650066, US6621225, US6597166, US2015138808, US2015103543, US2013201014, US2013125368, US2012080903, US2011019391, US2010225459, US2009116256, US2009046475, US2008225515, US2008137355, US2008123356, US2007245606, US2007201219, US2007121228, US2007053172, US2007047217, US2007041169, US2007002553, US2007001613, US2006261627, US2006067083, US2006062006, US2006061138, US2006060415, US2006054482, US2005281041, US2005253511, US2005242753, US2005195615, US2005180152, US2005145770, US2005135087, US2005111117, US2005083673, US2005030735, US2005024197, US2004208012, US2004189193, US2004165402, US2004120161, US2004114349, US2004090789, US2004080959, US2004080929, US2004062054, US2003090797, US2003076687, KR100935742, JP2007513819, JP2004509010, JP2003523891, GB2418561, GB2418561, GB2418561, GB2418191, GB2363765, EP1868421, EP1680305, EP1514731, EP1403167, EP1304262, EP1304262, DE10341572, DE10341572, DE10338898, DE10338205, DE10319396, DE102013205048, DE102011102532, DE102006028216, DE102005004581, DE10158722, DE10125580, DE10125580, DE10055560, DE10036812,

Abstract:
Source: US2001024370A A sun visor assembly for an automotive vehicle has a sun visor panel and at least one lighting element flush mounted on the sun visor panel. The lighting element is an electroluminescent film electrically connected to a triggering device for energizing the electroluminescent film illuminating the sun visor panel.

53) Family number: 1397888 (US2003029197A) © PatBase

Title: PROCESS FOR MELTING AND REFINING VITRIFIABLE MATERIALS

Priority:

CA19992284890 19990122	CZ19990003169 19990108	JP19990535785 19990108
FR19980002849 19980309	FR19980000176 19980109	FR19980002677 19980305
US19990367879 19990108	US20040841549 20040510	WO1999FR00027 19990108
US20020195070 20020715	US20000367879 20000118	WO1999FR00026 19990108

Family:

Publication number	Publication date	Application number	Application date
BRPI9904797 A	20000516	BR1999PI04797	19990108
CA2283252 AA	19990908	CA19992283252	19990108
CA2283252 C	20081230	CA19992283252	19990108
CN1240634 C	20060208	CN19998000024	19990108
CN1255906 A	20000607	CN19998000024	19990108
CN1827540 A	20060906	CN200510128679	19990108
CN1827540 B	20130522	CN200510128679	19990108
CO5320609 A1	20030930	CO19990001136	19990112
CZ297579 B6	20070207	CZ19990003169	19990108
CZ9903169 A3	20000412	CZ19990003169	19990108
DE69900107 D1	20010621	DE19996000107	19990108
DE69900107 T2	20020321	DE19996000107T	19990108
EP0966406 A1	19991229	EP19990900510	19990108
EP0966406 B1	20010516	EP19990900510	19990108
EP0966408 A1	19991229	EP19990900509	19990108
ES2158732 T3	20010901	ES19990900510T	19990108
FR2773555 A1	19990716	FR19980000176	19980109
FR2773555 B3	20000204	FR19980000176	19980109
FR2773556 A1	19990716	FR19980002677	19980305
FR2773556 B1	20010713	FR19980002677	19980305
FR2775683 A1	19990910	FR19980002849	19980309
FR2775683 B1	20000519	FR19980002849	19980309
IN00765CA1999 A	20060106	IN1999CA00765	19990908
IN202665 B	20070302	IN1999CA00765	19990908
IN203619 B	20070316	IN1999KN00015	19990819
JP2001515453 T2	20010918	JP19990535785T	19990108
JP2002516600 T2	20020604	JP19990535784T	19990108
JP2011011975 A2	20110120	JP20100237960	20101022
KR100583752 B1	20060525	KR19997007780	19990108
KR20000075712 A	20001226	KR19997007780	19990108
KR20000075862 A	20001226	KR19997007940	19990108
PL194008 B1	20070430	PL19990335520	19990108
PL335520 A1	20000425	PL19990335520	19990108
PT966406 T	20011130	PT19990900510T	19990108
RU2233806 C2	20040810	RU19990121340	19990108
RU99121340 A	20010720	RU19990121340	19990108
TR9902155 T1	20000421	TR19990002155T	19990108
US2003029197 AA	20030213	US20020195070	20020715
US2004206124 AA	20041021	US20040841549	20040510
US6460376 BA	20021008	US20000367879	20000118

US6739152 BB	20040525	US20020195070	20020715	
US7624595 BB	20091201	US20040841549	20040510	
WO9935099 A1	19990715	WO1999FR00027	19990108	
WO9935100 A1	19990715	WO1999FR00026	19990108	

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** JEANVOINE PIERRE ; MASSART TANGUY ; SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN VITRAGE ; BERTHEREAU ANNE ; BROWN BRULANT DAVID ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Assignee(s): CHEMICZNA SPOLDZIELNIA PRACY SYNTEZA PL ; SAINT GOBAIN GLASS FRANCE COURBEVOIE

Inventor(s):(std)**:** PIERRE JEANVOINE ; TANGUY MASSART ; MASSART TANGUY ; BROWN BRULANT DAVID ; BERTHEREAU P JEANVOINE T MASSA ; BERTHEREAU ANNE ; JEANVOINE PIERRE ; ANNE BERTHEREAU ; ZHANVUAN P ER ; MASSART T ; MASSAR TANGI ; JEANVOINE P ; BERTHEREAU A ; BERTERO ANN ; ANNE JEANVOINE PIERRE MASSART

Inventor(s): JEANVOINE PIERRE MASSART TANGUY BERTHEREAU ANNE ; ZHANVUAN P'ER ; HOFFMANN BOGUSLAW PL ; BALONIAK SYLWESTER PL ; LUKOWSKI ANDRZEJ PL ; RODRIGUEZ RODRIGUEZ ARMANDO ; RODRIGUEZ CUARTAS RAMON ; P JEANVOINE T MASSART A BERTHEREAU ; NUNEZ HERNANDEZ JUAN ANDRES ; MROCZKIEWICZ ANDRZEJ PL ; A BERTHEREAU ; P JEANVOINE ; T MASSART ; ZYCZYNSKA BALONIAK IRENA PL ; WIKA FELICJA PL

Agent(s): GOUDREAU GAGE DUBUC; SAINT GOBAIN RECHERCHE; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AT BE BR CA CH CN CY CZ DE DK ES FI FR GB GR IE IN IT JP KR LU MC MX NL PL PT RU SE TR US

International class (IPC 8–9): B60J1/00 C03B3/00 C03B3/02 C03B37/014 C03B5/04 C03B5/16 C03B5/187 C03B5/20 C03B5/225 C03B5/235 C03B5/42 C03B5/44 C03C3/083 C03C3/087 C03C3/089 C03C4/02 C03C4/08 (Advanced/Invention);
C03B5/225 C03C3/087 (Advanced/Non–invention);
B60J1/00 C03B5/00 C03C3/076 C03C4/00 (Core/Invention)

International class (IPC 1–7): B60J1/00 C03B5/14 C03B5/16 C03B5/193 C03B5/20 C03B5/225 C03B5/235 C03C3/083 C03C3/087 C03C3/089 C03C4/02 C03C4/08

CPC: B60J1/00 C03C3/083 C03C3/089 C03C4/02 C03C4/08 C03B2211/22 Y02P40/57 C03B3/005 C03B5/20 C03B5/2255 C03B5/2353 Y02P40/55 C03C3/087 C03B5/2252 C03B5/2356

European class: C03B3/00B C03B5/20 C03B5/225B C03B5/225C C03B5/235B C03B5/235C

US class: 65/134.2 65/134.200P 65/134.3 65/134.5 65/134.7 65/134.700S 65/134.9 65/157 65/157P 65/157S 65/337 65/346 65/346S 65/347 65/356 65/356S 65/374.12 65/374.120S 653/460

Classification Explorer

Cited documents: WO9730948 A1, WO9414716 A1, USRE36082 E, US6405564 BA, US6401492 BA, US6334336 BA, US6318126 BA, US6308534 BA, US6294005 BA, US6202445 BA, US6119484 A, US5849058 A, US5551312 A, US5478783 A, US5316563 A, US5246478 A, US4919700 A, US4919697 A, US4812372 A, US4780122 A, US4780121 A, US4738938 A, US4704153 A, US4545800 A, US4539034 A, US4353726 A, US4081261 A, US4040795 A, US3992183 A, US3951635 A, US3938981 A, US3819350 A, US3764287 A, US3754886 A, US3606825 A, US3519412 A, US3260587 A, US2002162358 AA, US2001037661 AA, SU1567527 T, RU1567527, JPS6136125, JPS4975616, JP6305735 A2, JP62003026 A2, JP61048438 A2, JP61036125 A2, JP6056433 A2, JP59111943 A2, JP49075616 A2, JP10036122, GB1416027 A, EP0854118 A1, EP0834481 A1, EP0831071 A1, EP0803479 A1, EP0775671 A1, EP0748776 A2, EP0536049 A1, EP0231518 A2, DE160186 A, DD160186 A1, CS233550 B1,

Forward Citations: WO15014917, WO14055201, WO13188167, WO13132184, WO09060871, WO08093580, WO07116183, WO07108324, WO05118493, WO05110933, WO04092080, WO0046161, USRE46462, US9777922, US9776904, US9776903, US9776902, US9776901, US9751792, US9731990, US9676652, US9676644, US9676643, US9650277, US9643870, US9643869, US9611163, US9580344, US9573831, US9533906, US9533905, US9505646, US9493375, US9492831, US9481593, US9481592, US9394192, US9249042, US9227865, US9145319, US9115017, US9096453, US9096452, US9032760, US9021838, US8997525, US8991215, US8973405,

US8973400, US8875544, US8769992, US8707740, US8707739, US8650914, US8621889, US8561430, US8461070, US8402787, US8322046, US8156766, US7951734, US7678722, US7666806, US7585801, US7565819, US7448231, US7428827, US7383698, US7231788, US7134300, US6883349, US6857999, US6854290, US2017107139, US2016145135, US2016002084, US2014356609, US2011236846, US2011088432, US2011073182, US2010040812, US2009042709, US2009000335, US2008276652, US2008256981, US2008187686, US2008155853, US2008145804, US2008127679, US2007212546, US2007084247, US2006000239, US2005155387, US2005097922, US2005061031, US2005061030, US2005056058, US2005039491, US2004168475, US2004168474, US2004049094, US2003230117, RU2631271, RU2615550, RU2469961, KR101207831, KR101160495, JP5231211, JP2015519289, JP2015511927, JP2014189429, JP2014189428, JP2010507558, JP2008508174, JP2008500255, FR2987617, FR2870842, FR2818358, FR2789384, EP2433911, EP2397446, EP2000440, EP1990321, EP1599423, EP1306353, EP1205445, DE102007002849, DE102007002849, DE10116293, CZ301120, CN105492398, CN104144888, CN104144888, CN102976587,

Abstract:
Source: US2003029197A The subject of the invention is a process for melting and refining vitrifiable materials, such that all or part of the thermal energy necessary for melting the said vitrifiable materials is supplied by the combustion of fossil fuel(s) with at least one oxidizer gas, the said fuel(s)/gas or the gaseous products resulting from the combustion being injected below the level of the mass of vitrifiable materials (7). The refining of the vitrifiable materials after melting comprises at least one step of subjecting them to subatmospheric pressure. The invention also relates to the device for implementing the process and to its applications.

0) US6155635A – SOLAR ROOF FOR MOTOR VEHICLES

54) Family number: 30536143 (US6155635A) © PatBase

Title: SOLAR ROOF FOR MOTOR VEHICLES

Priority: DE19981013324 19980326 DE19995012446 19990326

Family:

Publication number	Publication date	Application number	Application date
DE19813324 A1	19991007	DE19981013324	19980326
DE19813324 B4	20040722	DE19981013324	19980326
DE59912446 D1	20050929	DE19995012446	19990326
EP0952021 A2	19991027	EP19990106083	19990326
EP0952021 A3	20000628	EP19990106083	19990326
EP0952021 B1	20050824	EP19990106083	19990326
JP11321332 A2	19991124	JP19990070548	19990316
US6155635 A	20001205	US19990276758	19990326

Probable Assignee: WEBASTO KAROSSERIESYSTEME GMBH

Assignee(s):(std)**:** WEBASTO KAROSSERIESYST GMBH ; WEBASTO KAROSSERIESYSTEME ; WEBASTO SYSTEMKOMPONENTEN GMBH ; WESBASTO KAROSSERIESYSTEME GMB

Assignee(s): WESBASTO KAROSSERIESYSTEME GMBH ; WEBASTO KAROSSERIESYSTEME GMBH

Inventor(s):(std)**:** WECKER REINHARD

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class(IPC 8–9)**:** B60J7/00 B60J7/043 B60R16/04 H01L31/048 H02S40/34 (Advanced/Invention); B60J7/00 B60J7/04 B60R16/04 H01L31/048 (Core/Invention)

International class(IPC 1–7)**:** B60H1/00 B60J7/043 B60J7/057 B60R16/02 B60R16/04 H01L31/18 H02N6/00

CPC: B60J7/003 B32B17/10018 Y02E10/50 H02S40/34 H01L31/02008 H01L31/048 Y02T10/90

European class: B60J7/00B3 H01L31/048 H01L31/048C Y02E10/50 Y02T10/88

US class: 296/211

Classification Explorer

Cited documents: WO9216972 A1, WO9200457 A1, US5545261 A, US5248278 A, US5154481 A, US5149351 A, PCTGB9200457, JP677514, JP6077514 A2, EP0798787 A2, EP0463351 B1, EP0463351 A2, DE8808782 U, DE4038039 A1, DE4022928 C1, DE3830484 A1, DE3713854 A1, DE3538986 C2, DE3538986 A1,

Forward Citations: WO09050145, WO08154252, US9641124, US9579957, US9278617, US8997901, US8348336, US8177294, US7615883, US6702370, US6672655, US6653553, US6586668, US6550852, US6517148, US6474729, US2016126886, US2011297459, US2010243047, US2010213739, US2010096200, US2010013270, US2009288891, US2008303287, US2007261896, US2005236872, US2003011213, JP5835375, JP2015162608, JP2011500406, FR2971479, FR2922362, EP2487091, EP2377705, EP2282349, EP2107618, EP1601024, EP1504941, EP1504941, EP1154492, DE10336314, DE10336314, DE10231227, DE10204358, DE102009052105, DE102004003328, DE10023546, DE10023543, CN104129252, CN104129252, CN102218984, CN102218984,

Abstract:
Source: US6155635A A solar roof for motor vehicles having a cover (10) with solar cells (22) which are located between an outside cover plate (20) and an inside covering (24), at least one power consumer which is supplied from the solar cells and which is separate from the solar cover (10), and a contact−making means for establishing an electrical connection between the solar cells (22) and the power consumer. The contact−making means has cover−side contacts (30) and roof−side contacts (42) which, at least in the closed solar cover end position, make an electrical connection between the solar cells and the power consumer. To make the cover−side contacts (30) as simple, space−saving and still reliable as possible, the cover−side are integrated within the solar cover (10).

0) DE29913496U1 – ELECTRICAL CONNECTING LINKS FOR VEHICLE GLAZING...

55) Family number: 17000771 (DE29913496U1) © PatBase

Title: Electrical connecting links for vehicle glazings

Priority: DE19992013496U 19990802

Family:

Publication number	Publication date	Application number	Application date
DE29913496 U1	19991118	DE19992013496U	19990802

Probable Assignee: GLAVERBEL

Assignee(s):(std)**:** GLAVERBEL

Assignee(s): GLAVERBEL BRUESSEL BRUXELLES

International class (IPC 8–9)**:** H05B3/84 (Advanced/Invention)

International class (IPC 1–7)**:** B60J1/20 H05B3/12 H05B3/84

CPC: H05B3/84 H05B2203/016

European class: H05B3/84 T05B203/016

Classification Explorer

Abstract:
Source: DE29913496U1 (Claim 1) 1. Fahrzeugverglasungsplatte mit einer Emailschicht (12) und einem glasartigen Verbindungsbereich (13) eines elektrischen Elements, ueberlagernd wenigstens einen Teil der Emailschicht (12), dadurch gekennzeichnet, dass die Fritte der Emailschicht (12) und die Fritte des Verbindungsbereichs (13) auf einer oder mehreren Verbindungen desselben Basiselements basieren.

Machine translation: (Claim 1) 1 Vehicle glass plate with a layer of enamel (12) and a glass–like connecting portion (13) of an electric element, overlapping at least a portion of the enamel layer (12), wherein the frit of the enamel layer (12) and the frit of the connecting portion (13) on one or multiple connections from the same base element based.

0) US2002008483A – METHOD AND CIRCUIT ARRANGEMENT FOR DETECTING MO...

56) Family number: 28165306 (US2002008483A) © PatBase

Title: Method and circuit arrangement for detecting motion, direction and position of a part driven by an electric motor

Priority: DE19981049430 19981027 DE19981055996 19981204 DE19995007851 19991002 US19990433191 19991025 US20010912256 20010723

Family:

Publication number	Publication date	Application number	Application date
DE19855996 C1	19991216	DE19981055996	19981204
DE59907851 D1	20040108	DE19995007851	19991002
EP0997736 A2	20000503	EP19990119605	19991002
EP0997736 A3	20000823	EP19990119605	19991002
EP0997736 B1	20031126	EP19990119605	19991002
ES2210941 T3	20040701	ES19990119605T	19991002
JP2000197388 A2	20000714	JP19990331710	19991019
US2002008483 AA	20020124	US20010912256	20010723
US6545439 BB	20030408	US20010912256	20010723

Probable Assignee: DAIMLERCHRYSLER AG

Assignee(s):(std)**:** CONTI TEMIC MICROELECTRONIC ; DAIMLER CHRYSLER AG ; DAIMLERCHRYSLER AG ; POLLERSBECK WERNER ; ROEDEL REINHOLD ; SCHULTER WOLFGANG ; SPRENG KLAUS

Assignee(s): KAEUFL GEORG ; KESSLER ERWIN ; LIEPOLD ERICH ; CONTI TEMIC MICROELECTRONIC GMBH ; DAIMLER AG

Inventor(s):(std)**:** KAEUFL GEORG ; KAUFL GEORG ; KESLER ERWIN ; KESSLER ERWIN ; LIEPOLD ERICH ; POLLERSBECK WERNER ; RODEL REINHOLD ; ROEDEL REINHOLD ; SCHULTER WOLFGANG ; SCHULTER WOLFGANG DR ; SPRENG KLAUS

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): B60J1/17 E05F15/10 G01P13/04 G01P3/489 H02P3/12 H02P7/06 (Advanced/Invention); B60J1/17 E05F15/10 G01P13/02 G01P3/42 H02P3/06 H02P7/06 (Core/Invention)

International class (IPC 1–7): B60J1/17 E05F15/10 G01B7/00 G01P13/04 G01P13/4 H02M3/00 H02P1/00 H02P1/22 H02P1/40 H02P3/00 H02P3/12 H02P3/20 H02P5/00 H02P7/00 H02P7/06

CPC: G01P3/489 G01P13/045

European class: G01P13/04B G01P3/489

US class: 318/266 318/280 318/280P 318/281 318/283 318/290 318/432 318/434 318/445 318/466

Classification Explorer

Cited documents: US6281647 BA, US6150784 A, US5966071 A, US5796231 A, US5780988 A, US5754017 A, US5714854 A, US5378976 A, US4441076 A, US4319170 A, JP7222477 A2, JP63304307 A2, JP11078514 A2, JP11062380 A2, EP0603506 A2, EP0359853 B1, EP0359853 A1, DE4315637 C2, DE4315637 A1, DE19733581 C1,

Forward Citations: WO09000579, WO09000579, WO09000576, WO09000576, WO08104640, US9305589, US9109924, US8754600, US8248017, US8193746, US7402971, US7342369, US7122982, US7099761, US7064509, US6879121, US6859030, US6809488, US6768282, US2014049270, US2012326706, US2012032671, US2010283417, US2010117583, US2009289486, US2007194736, US2007176463, US2006017412, EP2420203, EP1287610, EP1208637, DE20213758, DE10223062, DE102014226156, DE102009010408, DE10130183, DE10130183, DE10028039, DE10028038, DE10028035, DE10009391, DE10007690,

Abstract:
Source: US2002008483A An electric motor for driving a component, such as a vehicle window lifter or a machine tool, functions as a generator, when the motor drive voltage is switched off and the motor is short circuited. The motor keeps running due to inertia or other influences. During this period after switch–off a generator voltage and respective generator current are produced. The generator current is measured for various purposes, preferably in combination with a measured r.p.m. signal. The generator current signal alone, or in combination with the r.p.m.

signal, is evaluated to provide information regarding the motion of the driven component including information regarding the motion direction and position of the component.

0) US2002108325A – STRUCTURAL REINFORCEMENT SYSTEM FOR REINFORCING...

57) Family number: 28240412 (US2002108325A) © PatBase

Title: Structural reinforcement system for reinforcing openings formed in structures

Priority: US19990257875 19990225 US20000497414 20000203 US20020057811 20020125 WO2000US03343 20000209

Family:

Publication number	Publication date	Application number	Application date
AU200029879 A5	20000914	AU20000029879	20000209
EP1163403 A1	20011219	EP20000908563	20000209
EP1163403 A4	20041201	EP20000908563	20000209
US2002108325 AA	20020815	US20020057811	20020125
US6192637 BA	20010227	US19990257875	19990225
US6374551 BA	20020423	US20000497414	20000203
WO0050704 A1	20000831	WO2000US03343	20000209
WO0050704 B1	20010525	WO2000US03343	20000209

Probable Assignee: EI LAND CORP

Assignee(s):(std)**:** EI LAND CORP ; FRANCIS RALPH C ; HULLS JOHN ; LANDRY JEAN JACQUES ; RICHARDSON ARTHUR B ; BOILEN KENNETH T

Assignee(s): DAVIS RORY R ; RIPE VALUE MANAGEMENT INC

Inventor(s):(std)**:** DAVIS RORY R ; HULLS JOHN ; RICHARDSON ARTHUR B ; LANDRY JEAN JACQUES ; FRANCIS RALPH C ; BOILEN KENNETH T

Inventor(s): JEAN JACQUES LANDRY ; JOHN HULLS ; KENNETH T BOILEN ; RALPH C FRANCIS ; ARTHUR B RICHARDSON

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): B60J5/12 E04H9/02 E05D15/24 E06B1/52 E06B3/48 E06B3/70 (Advanced/Invention); E05D15/24 E06B3/70 (Advanced/Non–invention)

International class (IPC 1–7): E04B1/98 E04H9/02 E05D15/38 E06B1/04 E06B9/11

CPC: E06B3/485 B60J5/12 B60J5/125 E04H9/02 E04H9/028 E05D15/24 E05Y2900/106 E06B1/522 E06B2003/7098 E05B65/0021

European class: B60J5/12 B60J5/12B E04H9/02 E05B65/00G E06B1/52B E06B3/48C P04H9/02S P05D15/24 P05Y900/106 P06B3/70X

US class: 160/133 160/201 160/229.1 160/236 49/199 49/453 52/148 52/149 52/167.3 52/204.1 52/204.100P 52/223.7 52/291 52/656.4 52/656.7 52/657 52/693 52/801.12

Classification Explorer

Cited documents: US6112799 A, US6082429 A, US6062293 A, US6041844 A, US5927019 A, US5887385 A, US5819834 A, US5765622 A, US5749407 A, US5732758 A, US5727614 A, US5697725 A, US5626176 A, US5588270 A, US5584333 A, US5584332 A, US5533561 A, US5522446 A, US5445207 A, US5394923 A, US5375382 A, US5331786 A, US5205096 A, US5022454 A, US4987941 A, US4918890 A, US4810920 A, US4723374 A, US4676293 A, US4545466 A, US4441289 A, US3516474 A, US3443625 A, US3039525 A, US2597786 A, US2124969 A, US2027831 A, US1286664 A, US1262301 A, EP0161753 A1,

Forward Citations: US9759005, US9359809, US9085901, US8985179, US8763319, US8746321, US8635820, US8490670, US8479470, US8397454, US8366083, US8327592, US8136309, US8112968, US8091317, US8001734, US7963074, US7905056, US7891152, US7788878, US7726378, US7634879, US7231742, US7150132, US6840016, US6651395, US2016160843, US2014245674, US2014027069, US2012198772, US2010313496, US2010181029, US2010032107, US2009313931, US2009241427, US2009211194, US2009184223, US2008248708, US2008216423,

US2008060285, US2008016798, US2008016793, US2007283525, US2007261314, US2007215294, US2007056694, US2007028542, US2006265981, US2006243400, US2006237151, US2005284057, US2005257451, US2005229509, US2005055897, US2002002806, US2001002529, GB2516776,

Abstract:
Source: US2002108325A In accordance with the present invention, there is provided a structural reinforcement system for reinforcing and securing an opening in a building/structure. The movable panel is further adapted to augment the shear stiffness of the building/structure when the panel is disposed in a closed position, such that the overall wall with the structural reinforcement system in accordance with the present invention has shear stiffness equal to or better than a uniform shear wall.

0) EP1033271A1 – MICROWAVE PROXIMITY SENSOR MIKROWELLEN– NAEHER...

58) Family number: 12985349 (EP1033271A1) © PatBase

Title: MICROWAVE PROXIMITY SENSOR

Priority: GB19990005030 19990304

Family:

Publication number	Publication date	Application number	Application date
EP1033271 A1	20000906	EP20000301779	20000303
GB9905030 A0	19990428	GB19990005030	19990304

Probable Assignee: MITEL SEMICONDUCTOR LTD

Assignee(s):(std)**:** DYNEX SEMICONDUCTOR LTD ; MITEL SEMICONDUCTOR LTD

Assignee(s): DYNEX SEMICONDUCTOR LIMITED ; MITEL SEMICONDUCTOR LIMITED

Inventor(s):(std)**:** BLUNDEN PETER PHILIP ; REDFERN STEPHEN WILLIAM ; TYSON PAUL ANDREW

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** B60J7/057 E05F15/00 H03K17/94 (Advanced/Invention); B60J7/04 E05F15/00 H03K17/94 (Core/Invention)

International class (IPC 1–7)**:** B60J7/057 E05F15/00 G08B13/24 H03K17/945

CPC: H03K17/94 B60J7/0573 E05F15/431 E05Y2900/542 E05Y2900/55

European class: B60J7/057B E05F15/00B6B2 H03K17/94 P05Y900/542 P05Y900/550

Classification Explorer

Cited documents: US5661385 A, JP1285883, EP0648628 A1,

Forward Citations: WO09013402, US8175769, US7209521, EP1612822, EP1330031, EP1330031, AU2008278934,

Abstract:
Source: EP1033271A1 A sensor arrangement, for detecting the presence of an object such as a human hand, in the aperture of a powered window, sunroof or the like includes a balanced transmission line 31,32 associated with the aperture. The transmission line is fed with microwave frequency signals from an oscillator 10, which signals are modulated with signals from an oscillator 61, via a balun 62. Signals received from the transmission line 31,32 are filtered by a filter 95 to isolate signals at the modulation frequency, and the resulting signal is subsequently applied to a window comparator 98. A detection signal is provided when an object is detected near to the transmission line 31,32. The detection signal is used to control the powered window, sunroof etc. accordingly.

0) US6568738B – OPTICAL GLARE LIMITER

59) Family number: 26605821 (US6568738B) © PatBase

Title: OPTICAL GLARE LIMITER

Priority: DE19991041125 19990825 DE20001082452 20000825 DE20002023070U 20000825 WO2000DE02983 20000825 DE20005001025 20000825 WO2000DE002983 20011229

Family:

Publication number	Publication date	Application number	Application date
AT230358 E	20030115	AT20000963950T	20000825
AU200075062 A1	20010319	AU20000075062	20000825
AU200075062 A5	20010319	AU20000075062	20000825
BRPI0012214 A	20020312	BR2000PI12214	20000825
CA2381440 AA	20020207	CA20002381440	20000825
CN1209257 C	20050706	CN20008010170	20000825
CN1360547 A	20020724	CN20008010170	20000825
CZ20014714 A3	20030416	CZ20010004714	20000825
CZ298099 B6	20070620	CZ20010004714	20000825
DE10082452 D2	20020214	DE20001082452	20000825
DE19941125 A1	20010308	DE19991041125	19990825
DE20023070 U1	20021205	DE20002023070U	20000825
DE50001025 D1	20030206	DE20005001025	20000825
EP1206370 A1	20020522	EP20000963950	20000825
EP1206370 B1	20030102	EP20000963950	20000825
ES2190987 T3	20030901	ES20000963950T	20000825
HK1047568 A1	20060217	HK20020108651	20021129
JP2003507249 T2	20030225	JP20010518283T	20000825
KR100722951 B1	20070530	KR20017016904	20000825
KR20030038286 A	20030516	KR20017016904	20000825
MXPA01013146 A1	20030820	MX2001PA13146	20000825
PL352945 A1	20030922	PL20000352945	20000825
RU2002104699 A	20031020	RU20020104699	20000825
RU2250839 C2	20050427	RU20020104699	20000825
SK200101853 A5	20020604	SK20010001853	20000825
US6568738 BA	20030527	US20020049118	20020208
WO0114168 A1	20010301	WO2000DE02983	20000825

Probable Assignee: BRAUN UWE PETER BRAUN

Assignee(s):(std)**:** BRAUN UWE PETER ; BRAUN UWE PETER BRAUN ; BRAUN UWE PETER DIPL ING ; UWE PETER BRAUN

Inventor(s):(std)**:** UWE PETER BRAUN ; BRAUN UWE PETER DIPL ING ; BRAUN UWE PETER ; BRAUN DIPL ING ; BRAUN UVE PETER

Agent(s): ROBIC

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZW

International class (IPC 8–9): B60G1/00 B60J3/00 B60Q3/02 F21S8/10 (Advanced/Invention); B60Q3/02 (Advanced/Non–invention); B60J3/00 B60Q3/00 F21S8/10 (Core/Invention)

International class (IPC 1–7): B60J3/00 B60Q B60Q3/00 B60Q3/02 B60Q9/00 F21S8/10 F21V5/00 F21V9/08 F21W101/08 G02B27/00 G02B5/00

CPC:	B60Q3/72
European class:	B60Q3/02B B60Q3/02J
US class:	296/97.2 296/97.6 296/97.8 296/972 296/976 296/978 359/601

Classification Explorer

Cited documents:	WO9967106 A1, WO0114168 A1, US6079854 A, US6056424 A, US5714751 A, US5613725 A, US5356192 A, US5305012 A, US5258607 A, US5249835 A, US4986592 A, US4905125 A, US4874195 A, US4787735 A, US4427264 A, JP62273117 A2, JP55148617 A2, JP4905125 A2, JP4787735 A2, DE4218436 A1, DE3048424 A1,
Forward Citations:	WO10049548, WO08030334, WO08030334, WO03043856, US9505290, US8899656, US7586079, US7134707, US6568738, US2016214467, US2015083897, US2010194141, US2007012869, US2006198123, US2006175859, EP2329974, EP1577163, EP1577163, DE202010002187, CZ299941,

Abstract:
Source: US6568738B An optical glare limiter uses an electrical power source, typically of a motor vehicle. It includes a light sensor component and a light source. The light from the glare limiter light source falling on a reflecting surface depends on the intensity of the light falling on the light sensor component from an external blinding source and can be regulated electronically so that the light in the driver's field of vision has a contrast that is almost homogeneous and widespread with the effect of reducing the blinding effect.

0) US2003006623A – ASSEMBLY OF A VEHICLE WINDOW GLASS WITH A CONTI...

60) Family number: 15385804 (US2003006623A) © PatBase

Title: ASSEMBLY OF A VEHICLE WINDOW GLASS WITH A CONTIGUOUS ELEMENT

Priority: DE19991061706 19991221 DE20006018608 20001221 WO2000FR03656 20001221 JP20010546499 20001221 JP20010546499T 20001221

Family:

Publication number	Publication date	Application number	Application date
AT290476 E	20050315	AT20000993501T	20001221
BRPI0016595 A	20020910	BR2000PI16595	20001221
CN1151040 C	20040526	CN20008017510	20001221
CN1413151 A	20030423	CN20008017510	20001221
CZ20022197 A3	20021016	CZ20020002197	20001221
CZ298516 B6	20071024	CZ20020002197	20001221
DE19961706 A1	20010705	DE19991061706	19991221
DE19961706 B4	20040909	DE19991061706	19991221
DE60018608 C5	20161215	DE20006018608	20001221
DE60018608 D1	20050414	DE20006018608	20001221
DE60018608 T2	20060427	DE20006018608T	20001221
EP1240041 A1	20020918	EP20000993501	20001221
EP1240041 B1	20050309	EP20000993501	20001221
ES2239068 T3	20050916	ES20000993501T	20001221
JP2004501014 T2	20040115	JP20010546499T	20001221
JP2012020736 A2	20120202	JP20110207948	20110922
JP4886955 B2	20120229	JP20010546499T	20001221
MXPA02005492 A1	20020902	MX2002PA05492	20001221
PL204410 B1	20100129	PL20000355569	20001221
PL355569 A1	20040504	PL20000355569	20001221
PT1240041 T	20050729	PT20000993501T	20001221
US2003006623 AA	20030109	US20020176317	20020621
US6722731 BB	20040420	US20020176317	20020621
WO0145974 A1	20010628	WO2000FR03656	20001221

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** BEHREND ULRICH ; CORNILS GERD ; FISCHER FLORIAN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN ; ORTEN THOMAS ; SAINT GOBAIN SEKURIT D GMBH ; SAINT GOBAIN LINAK AS

Assignee(s): SAINT GOBAIN GLASS FRANCE COURBEVOIE ; SAINT GOBAIN SEKURIT DEUTSCHLAND GMBH AND CO KG

Inventor(s):(std)**:** BEHREND U ; BEHREND ULRICH ; CORNILS G ; CORNILS GERD ; FISCHER FLORIAN ; FISHER F ; GERD CORNILS ; ORTEN THOMAS ; THOMAS ORTEN ; ULRICH BEHREND

Inventor(s): U BEHREND ; FLORIAN FISCHER ; G CORNILS ; F FISHER

Agent(s): HITOSHIO AKIO; KAWAGUCHI YOSHIO; OSAKI KATSUMASA

Designated states: AT BE BR CH CN CY CZ DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL PL PT SE TR US

International class (IPC 8–9)**:** B60J1/02 B60J10/02 (Advanced/Invention); B60J1/02 B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/02 B60J1/10 B60J1/18 B60J10/02

CPC: B60J10/70 B60J1/02

European class: B60J1/02 B60J10/02

US class: 296/146.15 296/201 296/93 296/96.21 52/208

Classification Explorer

Cited documents: USRE37395 E, US6158372 A, US6039907 A, US5988730 A, US5935356 A, US5711119 A, US5692953 A, US5603546 A, US5584526 A, US5522636 A, US5507994 A, US5421940 A, US5396746 A, US5352010 A, US5001876 A, US4938526 A, US4584155 A, US347491 A, JP6401621, JP64001621 A2, JP6078029 U, JP58189481 A2, JP0678029 U, FR2754503 A1, EP0742762 B1, EP0611672 A2, EP0490092 A2, EP0401091 A1, EP0163195 A2, EP0145443 B1, EP0127546 A1, DE9113392 U, DE8707322 U, DE4445258 A1, DE4326650 A1, DE4232554 C1, DE3843079 A1, DE3821457 A1, DE3702555 C2, DE3702555 A1, DE3606810 A1, DE3604389 A1, DE04232554,

Forward Citations: WO17089702, WO16189238, WO16128683, WO16124868, WO14177329, WO13120671, WO13091919, WO0185481, US9694659, US9688128, US9399393, US9227498, US9216633, US9168879, US9073421, US9056544, US8998297, US8777298, US8757706, US8714625, US7988223, US7621585, US7438352, US2015197143, US2015091332, US2013214560, US2013033071, US2011121594, US2008067830, US2007029130, US2006008625, US2005284047, US2005218557, US2005179285, US2005132661, JP2007269108, EP2285612, EP1607260, EP1607260, EP1433632, DE202012102712, DE10247229, DE10247229, DE102013012628, DE102012102760, DE102012008934, DE102011056955, DE102011056955, DE102008003252, CZ302211, CN103386932, CN103386932, CN102777104, CN102777104,

Abstract:
Source: US2003006623A A device is provided for assembling a fixed−mount vehicle window glass, particularly a windshield, with a component contiguous with one edge of the vehicle window glass, such as a water tray. A profiled part is fixed to the edge of the window glass. The profiled part may be a profiled strip that adheres to the vehicle window glass, and has a lip which joins smoothly and continuously with the free main face of the vehicle window glass. On its underside, the lip may include means of assembly with the component.

0) US2004159645A – HEATED PANE

61) Family number: 24682748 (US2004159645A) © PatBase

Title: HEATED PANE

Priority: DE20011026869 20010601 DE20026005482 20020522 WO2002FR01718 20020520 WO2002FR01718 20020522 WO2002FR01718 20031105

Family:

Publication number	Publication date	Application number	Application date
AT301915 E	20050815	AT20020735552T	20020522
BRPI0209729 A	20040914	BR2002PI09729	20020522
BRPI0209729 B1	20151020	BR2002PI09729	20020522
CN100375579 C	20080312	CN20028010897	20020522
CN1522553 A	20040818	CN20028010897	20020522
CZ20033276 A3	20040414	CZ20030003276	20020522
DE10126869 A1	20021219	DE20011026869	20010601
DE60205482 D1	20050915	DE20026005482	20020522
DE60205482 T2	20060524	DE20026005482T	20020522
EP1393593 A1	20040303	EP20020735552	20020522
EP1393593 B1	20050810	EP20020735552	20020522
ES2247340 T3	20060301	ES20020735552T	20020522
IN01421KN2003 A	20060310	IN2003KN01421	20031104
IN221883 B	20080711	IN2003KN01421	20031104
JP2004528699 T2	20040916	JP20030501236T	20020522
JP3964388 B2	20070822	JP20030501236T	20020522
KR100855013 B1	20080828	KR20037014411	20020522
KR20040012792 A	20040211	KR20037014411	20020522
MXPA03010871 A1	20040217	MX2003PA10871	20020522
PL200779 B1	20090227	PL20020366525	20020522
PL366525 A1	20050207	PL20020366525	20020522
US2004159645 AA	20040819	US20040479343	20040420
US6914224 BB	20050705	US20040479343	20040420
WO02098176 A1	20021205	WO2002FR01718	20020522

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** DICKERS HEINZ ERICH ; GILLNER MANFRED ; SAIGOBAIN GLASS FRANCE ; SAINT GOBAIN ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SEKURIT D GMBH ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN SA ; SCHMITZ JUERGEN

Assignee(s): SAINT GOBAIN GLASS FRANCE COURBEVOIE ; SCHMITZ JURGEN ; SAINT GOBAIN GLASS FRANCE LES MIROIRS ; SAINT GOBAIN SEKURIT DEUTSCHLAND GMBH AND CO KG

Inventor(s):(std)**:** JURGEN DICKERS HEINZ ERICH GIL ; MANFRED GILLNER ; SCHMITZ J RGEN ; SCHMITZ JURGEN ; SCHMITZ JUERGEN ; GILLNER MANFRED ; DICKERS HEINZ ERICH ; DICKERS HEINZ ERICH GILLNER MANFRED SCHMITZ

Inventor(s): DICKERS HEINZ ERICH GILLNER MANFRED SCHMITZ JURGEN ; JUERGEN SCHMITZ ; J³RGEN SCHMITZ ; HEINZ ERICH DICKERS

Agent(s): HITOSHIO AKIO; TSUBOKURA MICHIAKI; ONO MAKOTO; OSAKI KATSUMASA; KAWAGUCHI YOSHIO; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9):	B60J1/20 B60S1/02 B60S1/56 C03B23/02 H05B3/00 H05B3/10 H05B3/14 H05B3/34 H05B3/84 H05B3/86 (Advanced/Invention); B60J1/20 B60S1/02 B60S1/56 H05B3/00 H05B3/10 H05B3/14 H05B3/84 (Core/Invention)
International class (IPC 1–7):	B32B17/06 B32B17/10 B60J1/00 B60J1/20 B60L1/02 B60S1/02 B60S1/56 C03B23/02 H05B3/00 H05B3/06 H05B3/10 H05B3/12 H05B3/14 H05B3/26 H05B3/84 H05B3/86
CPC:	B32B17/10036 B32B17/10376 B32B17/10761 H05B3/00 H05B3/84 H05B2203/002 H05B2203/016
European class:	B32B17/10C4 B32B17/10E32 B32B17/10G28 H05B3/00 H05B3/84 T05B203/002 T05B203/016
US class:	219/202 219/203 219/213 219/213S 219/522
Classification Explorer	
Cited documents:	US6211491 BA, US6008473 A, US5824993 A, US5650208 A, US5627509 A, US5445694 A, US5434384 A, US4994650 A, US4894513 A, US4755659 A, US4396826 A, US4395622 A, US4071736 A, US3974359 A, US3383762 A, JP61243687, JP61122144 U, JP57140255, FR1544718 A, EP0524537 A2, EP0524537, EP0479154 A1, EP00524537, EP0052453 B1, DE8800823 U, DE69325837 T2, DE3937346 A1, DE3911178 C2, DE29606071 U1, DE1515208 B2,
Forward Citations:	WO17077133, WO16000927, WO09151204, WO09151203, WO09087417, WO09059980, WO05055667, WO05055667, WO05020637, US9624126, US9611171, US9247587, US8546729, US8530792, US8221189, US8022334, US7731373, US7200921, US2015343744, US2014238967, US2013233842, US2011042370, US2011017727, US2011017726, US2010266832, US2010258547, US2010029176, US2009147360, US2009014426, US2007181565, US2006174476, US2006011598, US2005183442, KR101367113, KR101131473, KR100940437, KR100940436, JP2011515809, JP2011514647, JP2011504431, JP2007517360, DE20321682, DE10356607, DE102008017052, DE102007001080, DE102004060032, CN104507675, CN104507675, CN103533686, CN103533686, CN103098541, CN103098541, CN102602265, CN102574738, CN102574738, CN101849429,

Abstract:
Source: US2004159645A A heated window consisting of at least one rigid pane, at least two current busbars of different polarity placed substantially parallel close to one edge of the heated window at different distances from the edge and linear heating resistors electrically connected thereto, characterized in that the busbars lie sideways to the heating resistors and the heating resistors (2) start from a first current busbar (4) and, passing over the other current busbar (3) while being insulated therefrom, in the direction of the window surface and in at least one loop, return toward the other current busbar (3) and are electrically connected thereto.

0) US2005056638A – LAMINATED GLASS PLANE WITH ELECTRICALLY CONTROL...

62) Family number: 28849363 (US2005056638A) © PatBase

Title: LAMINATED GLASS PLANE WITH ELECTRICALLY CONTROLLED FUNCTIONAL ELEMENT

Priority: CZ20050017340U 20051230 DE20011064063 20011224 WO2002FR04326 20021212 WO2002FR04327 20021212 DE20021055199 20021127 DE20012021605U 20011224 WO2002FR04327 20040623

Family:

Publication number	Publication date	Application number	Application date
AU2002364648 AA	20030715	AU20020364648	20021212
AU2002364992 AA	20030730	AU20020364992	20021212
CN100474992 C	20090401	CN20028026076	20021212
CN1608396 A	20050420	CN20028026076	20021212
CN1620841 A	20050525	CN20028028317	20021212
CZ16359 U1	20060412	CZ20050017340U	20051230
CZ20040755 A3	20041215	CZ20040000755	20021212
CZ20040761 A3	20050216	CZ20040000761	20021212
DE10164063 A1	20030710	DE20011064063	20011224
DE10164063 B4	20071206	DE20011064063	20011224
DE10255199 A1	20030710	DE20021055199	20021127
DE20121605 U1	20030508	DE20012021605U	20011224
EP1459602 A2	20040922	EP20020805796	20021212
EP1459603 A1	20040922	EP20020806328	20021212
JP2005513753 T2	20050512	JP20030557259T	20021212
JP2005529450 T2	20050929	JP20030561301T	20021212
JP4494788 B2	20100630	JP20030557259T	20021212
KR100899924 B1	20090528	KR20047009981	20021212
KR100989566 B1	20101025	KR20047009978	20021212
KR20040069342 A	20040805	KR20047009978	20021212
KR20040070272 A	20040806	KR20047009981	20021212
PL201619 B1	20090430	PL20020371290	20021212
PL202079 B1	20090529	PL20020370320	20021212
PL370320 A1	20050516	PL20020370320	20021212
PL371290 A1	20050613	PL20020371290	20021212
US2005056638 AA	20050317	US20040498358	20041029
US2005124257 AA	20050609	US20040498822	20041230
US7009156 BB	20060307	US20040498358	20041029
US7354327 BB	20080408	US20040498822	20041230
WO03056880 A2	20030710	WO2002FR04326	20021212
WO03056880 A3	20040212	WO2002FR04326	20021212
WO03061348 A1	20030724	WO2002FR04327	20021212

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** MAEUSER HELMUT ; SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; F42 S R O ; SAINT GOBAIN GLASS FRANCE LES ; SAINT GOBAIN SEKURIT D GMBH ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE LES MIROIRS 18 AVENUE D ALSACE ; SAINT GOBAIN GLASS FRANCE LES MIROIRS 18 AVENUE D ; F42 SRO ; SAINT GOBAIN SEKURIT DEUTSCHLAND GMBH AND CO KG

Inventor(s):(std)**:** HELMUT MAEUSER ; MAEUSER HELMUT ; MAUSER HELMUT ; ZALABA JAN ; JANOTA FILIP

Agent(s): OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A63F7/00 A63F7/06 A63F7/07 A63F7/22 A63F7/36 B32B17/10 B60J1/20 B60Q3/00 F21K2/00 F21S8/10 F21V33/00 G09F13/22 H01L51/50 H01L51/56 H05B1/02 H05B3/00 H05B3/84 H05B3/86 H05B33/02 H05B33/06 H05B33/08 H05B33/10 H05B33/12 H05B33/14 H05B33/22 H05B33/26 (Advanced/Invention);
B60J1/20 F21W101/08 F21Y105/00 G09F13/22 H01L51/50 H01L51/52 H05B1/02 H05B3/84 H05B33/10 H05B33/14 (Advanced/Non–invention);
A63F7/00 B32B17/06 B60J1/20 B60Q3/00 F21K2/00 F21S8/10 F21V33/00 G09F13/22 H01L51/50 H05B1/02 H05B3/00 H05B3/84 H05B33/02 H05B33/10 H05B33/12 H05B33/14 H05B33/22 H05B33/26 (Core/Invention);
H01L51/50 (Core/Non–invention)

International class (IPC 1–7): B60J1/20 B60Q1/26 F21S8/10 F21V33/00 F21Y105/00 G09F13/22 G09F9/30 H01J9/00 H01L51/20 H05B1/02 H05B3/10 H05B3/16 H05B3/84 H05B33/06 H05B33/08 H05B33/10 H05B33/12 H05B33/14 H05B33/22

CPC: B32B17/10495 H01L51/5215 H05B33/26 H05B33/145 B32B17/10036 B32B17/10174 B32B17/10541 H05B3/86 H05B33/10 H05B33/12 H05B2203/017 H01L51/5203 H01L51/5012 H05B3/84

European class: B32B17/10C4 B32B17/10E10 H05B3/84 H05B3/86 H05B33/10 H05B33/12 H05B33/14F H05B33/26 T01L51/52B2 T05B203/017

US class: 219/202 219/22 219/220 219/220S 219/543 219/548 219/548S 427/66 445/24 445/24P 445/25

Classification Explorer

Cited documents: US6280273 BA, US6185812 BA, US6036823 A, US5757125 A, US4880475 A, US4857920 A, US4513023 A, US3118086 A, US2001000335 AA, JP4253181 A2, JP2001313167 A2, JP2001155852 A2, JP2000348870 A2, JP1235190 A2, JP1235190, JP1189889 A2, JP1189889, EP1124261 A1, EP1100291 A1, EP1083613 A2, EP0853334 A1, EP0267331 A1, DE2934503 A1, DE19810329 A1, DE10126868 A1, DE10102394 A1,

Forward Citations: WO12172258, WO12168628, WO09074266, WO08142008, WO08119899, WO08119899, US9596719, US9269921, US9114425, US9108881, US9099673, US8815373, US8808790, US8786176, US8753906, US8664570, US8593055, US8585860, US8343571, US8339031, US7817327, US7674347, US2014091073, US2013092676, US2012080693, US2011070448, US2010225227, US2010188246, US2010117523, US2010072884, US2009277671, US2009046355, US2007181565, US2007138167, US2006081581, JP5795935, JP2012109226, GB2474722, GB2391896, FR2976729, FR2976439, FR2913146, EP2381745, EP2381744, EP2381743, EP1992478, EP1596405, DE102016205402, DE102008004942, DE102004023420, CN103733372, CN103563479, CN103563479, CN101617418,

Abstract:
Source: US2005056638A A laminated panel assembly including at least one rigid panel, an electrically controllable flat functional element, and at least one electrically conducting thin film. The thin film forms a flat electrode of the functional element. The thin film can be heated by supplying the thin film with an electrical voltage independently of the electrical supply for the functional element. Moreover, undesirable variations in optical properties of the functional element, when such a laminated panel assembly is used at highly fluctuating temperatures, in particular at low temperatures, are thus reduced.

0) US2007020442A – FUNCTIONALIZED SECURITY GLAZING

63) Family number: 41887602 (US2007020442A) © PatBase

Title: FUNCTIONALIZED SECURITY GLAZING

Priority: FR20030008648 20030716 FR20030008648 20030816 WO2004FR01862 20040715

Family:

Publication number	Publication date	Application number	Application date
AR045726 AA	20051109	AR2004P102514	20040716
BRPI0412585 A	20060919	BR2004PI12585	20040715
CN1822951 A	20060823	CN200480020512	20040715
EP1651433 A2	20060503	EP20040767686	20040715
FR2857617 A1	20050121	FR20030008648	20030716
FR2857617 B1	20061027	FR20030008648	20030716
IN00038KN2006 A	20081024	IN2006KN00038	20060104
IN224767 B	20081024	IN2006KN00038	20060104
JP2007516147 T2	20070621	JP20060519964T	20040715
KR101154451 B1	20120615	KR20067000881	20040715
KR20060089205 A	20060808	KR20067000881	20040715
MXPA06000604 A1	20060411	MX2006PA00604	20040715
TH71520 A	20051027	TH20041002705	20040715
US2007020442 AA	20070125	US20060564501	20060705
US8102585 BB	20120124	US20040564501	20040715
WO05007398 A2	20050127	WO2004FR01862	20040715
WO05007398 A3	20050324	WO2004FR01862	20040715

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** BETEILLE FABIEN ; FANTON XAVIER ; GIRON JEAN CHRISTOPHE ; SAINT GOBAIN ; SCHUETT JUERGEN ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE

Inventor(s):(std)**:** FABIEN GIRON JEAN CHRISTOPHE S ; FANTON XAVIER ; GIRON JEAN CHRISTOPHE ; GIRON JEAN CHRISTOPHER ; SCHUETT JUERGEN ; BETEILLE FABIEN

Inventor(s): ETEILLE FABIEN ; FABIEN BETEILLE ; XAVIER FANTON ; GIRON JEAN CHRISTOPHE SCHUETT JUERGEN FANTON... ; GIRON JEAN CHRISTOPHE SCHUETT JUERGEN FANTON XAVIER BETEILLE FABIEN ; GIRON JEANCHRISTOPHE ; JEAN CHRISTOPHE GIRON ; JUERGEN SCHUETT

Agent(s): SAINT GOBAIN RECHERCHE; C IRVIN MCCLELLAND OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B32B17/00 B32B17/06 B32B17/10 B32B23/02 B32B27/00 B60J1/00 B60J3/04 B60R1/00 B60R1/08 C03C27/12 C03C4/00 E06B5/00 G02F1/133 G02F1/15 G02F1/153 G02F1/17 (Advanced/Invention);
B32B17/00 G02F1/133 G02F1/153 (Advanced/Non–invention);
B32B17/00 B32B17/06 B32B23/00 B32B27/00 B60J1/00 B60J3/00 B60R1/00 B60R1/08 C03C27/12 C03C4/00 E06B5/00 G02F1/01 G02F1/13 (Core/Invention);
G02F1/01 G02F1/13 (Core/Non–invention)

International class (IPC 1–7): B32B17/10 B60J1/00 B60J3/04 B60R1/00 B60R1/08 C03C27/12 C03C4/00 C23C22/00 E06B5/00 G02F1/133 G02F1/153 G02F1/17

CPC: B32B17/10513 B32B17/10 B32B17/10036 B32B17/10174 B32B17/10302 B32B17/10761 B32B17/1077 B60R1/088 G02F1/133 G02F1/153 Y10T428/24777 Y10T428/24942 Y10T428/31504

European class: B32B17/10 B32B17/10C4 B32B17/10E10 B32B17/10E16B B32B17/10E40D4 B32B17/10G28 B32B17/10G30 B60R1/08G5 S02F1/133 S02F1/153

US class: 349/16 359/265 359/266 359/270 359/273 359/275 359/432 428/192 428/192P 428/212 428/220 428/220S 428/411.1 428/411.100S 428/426 428/426S 428/432 429/304

Classification Explorer

Cited documents: WO0069692 A1, US7012728 BB, US7002720 BB, US6940628 BB, US6872453 BB, US6791737 BB, US6747779 BA, US6746775 BA, US6529308 BB, US6362914 BB, US6337758 BA, US6294233 BA, US6284360 BA, US6277523 BA, US6248263 BA, US5985486 A, US5694144 A, US5239406 A, US5202787 A, US4874229 A, US4654067 A, US2006033978 AA, US2005147825 AA, US2005041276 AA, US2004229049 AA, US2004169789 AA, US2004067343 AA, US2004053125 AA, US2003064198 AA, US2002037421 AA, JP9165237 A2, JP59003051 A2, JP3115142 A2, JP2003500260 T2, JP10253995 A2, FR308648, FR2829723 A1, FR2227123 A1, FR0308648, EP0753438 A1, EP0723897 A1, EP0641696 A1, EP0353141 A1, BE702812 A,

Forward Citations: WO14135804, WO12089955, WO12007335, WO08078026, WO08078026, WO07116184, WO07095349, WO07077460, WO07000542, WO07000542, WO06092532, WO06092532, USD518726, US9782949, US9728920, US9703167, US9690162, US9671665, US9618819, US9513525, US9482922, US9482921, US9442339, US9436054, US9341912, US9341909, US9316883, US9272941, US9182644, US9158173, US9116410, US9102124, US9091896, US9019588, US8908259, US8810889, US8711465, US8665512, US8643933, US8270059, US8259380, US8164818, US7929194, US2009297806, US2009181203, JP2015145328, JP2014525885, JP2012062038, JP2011524270, JP2011514849, JP2009533248, JP2009522166, FR3003044, FR2909921, FR2899631, FR2886419, FR2882828, EP2700502, EP1859319, CN105246685, CN104114804, CN104114804, CN101616794,

Abstract:
Source: US2007020442A Glazing assembly, comprising in succession: a first rigid substrate (S 1), a second rigid substrate (S 2), at least one active system (3) comprising at least one film and placed between the substrates (S 1 and S 2), at least one polymer film (f 1) having the function of retaining fragments of the glazing assembly should it break, the said film being placed between the substrate (S 1) and the substrate (S 2), characterized in that the active system (3) is on the inner face (2) of the substrate (S 1).

0) US2007084965A – METHOD OF LAUNCHING A CATAPULT, CATAPULT, AND L...

64) Family number: 31935262 (US2007084965A) © PatBase

Title: METHOD OF LAUNCHING A CATAPULT, CATAPULT, AND LOCKING DEVICE

Priority: DE20031052464 20031107 DE20032021682U 20031107 US20060578016 20060503 US20090463617 20090511 FI20030001644 20031112 US20040578016 20041111 WO2004FI00669 20041111 WO2004FR02818 20041103

Family:

Publication number	Publication date	Application number	Application date
AT475056 E	20100815	AT20040798278T	20041111
AT480981 E	20100915	AT20040805369T	20041103
AU2004289845 AA	20050526	AU20040289845	20041111
AU2004289845 BB	20100218	AU20040289845	20041111
CN1875659 A	20061206	CN200480032446	20041103
CN1875659 B	20110608	CN200480032446	20041103
DE10352464 A1	20050623	DE20031052464	20031107
DE20321682 U1	20081113	DE20032021682U	20031107
DE602004028273 D1	20100902	DE200460028273T	20041111
DE602004029072 D1	20101021	DE200460029072T	20041103
EP1680945 A1	20060719	EP20040805369	20041103
EP1680945 B1	20100908	EP20040805369	20041103
EP1685360 A1	20060802	EP20040798278	20041111
EP1685360 B1	20100721	EP20040798278	20041111
ES2348302 T3	20101202	ES20040798278T	20041111
FI115667 B	20050615	FI20030001644	20031112
FI20031644 A0	20031112	FI20030001644	20031112
IL175410 A0	20060905	IL20060175410	20060504
IL175410 A1	20121129	IL20040175410	20041111
JP2007510610 T2	20070426	JP20060537370T	20041103
JP4787164 B2	20111005	JP20060537370T	20041103
PT1680945 T	20101109	PT20040805369T	20041103
TH44573 B	20150608	TH20041004369	20041105
TH70581 A	20050914	TH20041004369	20041105
US2007084965 AA	20070419	US20040578016	20041111
US2007108175 AA	20070517	US20040578326	20041103
US2009250550 AA	20091008	US20090463617	20090511
US7411158 BB	20080812	US20040578326	20041103
US7562843 BB	20090721	US20040578016	20041111
US7954755 BB	20110607	US20090463617	20090511
WO05047803 A1	20050526	WO2004FI00669	20041111
WO05048656 A1	20050526	WO2004FR02818	20041103
ZA200603674 A	20070926	ZA20060003674	20041111

Probable Assignee: ROBONIC LTD OY

Assignee(s):(std)**:** ANDRT JAN ; LIPPONEN PENTTI ; ROBONIC LTD OY ; SAINT GOBAIN ; SAINT GOBAIN SEKURIT D GMBH ; SAINT GOBAIN LINAK AS

Assignee(s): SAINT GOBAIN SEKURIT DEUTSCHLAND GMBH AND CO KG ; SAINT GOBAIN GLASS FRANCE ; OY ROBONIC LTD ; ROBONIC LTD

Inventor(s):(std)**:** PENTTI LIPPONEN ; LIPPONEN PENTTI ; JAN ANDRT ; ANDRT JAN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; AUPETIT MURIEL J C; KUOSMANEN TIMO;

PEARL COHEN ZEDEK LATZER BARATZ; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; LADAS AND PARRY; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; LADAS AND PARRY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J1/20 B60L1/02 B60S1/02 B60S1/58 B64F1/04 B64F1/06 C03C27/12 F41B3/02 F41F3/04 F41F7/00 H05B1/02 H05B3/84 H05B3/86 (Advanced/Invention);
B60J1/20 B60L1/00 B60S1/02 B60S1/56 B64F1/00 C03C27/12 F41B3/00 F41F3/00 F41F7/00 H05B1/02 H05B3/84 (Core/Invention);
F41B (Subclass/Invention)

International class (IPC 1–7): B60J1/00 B64F1/06 F41B3/02 H01B 5 / 14 H01B5/14 H01Q1/32 H05B3/26 H05B3/84

CPC: F41B3/02 F41F3/0406 F41F7/00 B32B17/10385 B32B17/10761 B32B17/10788 B64F1/06 H05B3/84 H05B2203/002 H05B2203/016

European class: B64F1/06 F41B3/02 F41F3/04B F41F7/00 H05B3/84 T05B203/002 T05B203/016

US class: 124/56 219/202 219/203 219/522 219/543 244/63 244/63P

Classification Explorer

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Forward Citations: WO14095388, WO14044410, WO13104439, WO13104438, WO12168009, WO12052315, WO12004280, WO10048176, WO10031241, US9783322, US9656765, US9596719, US9434481, US9359807, US9247587, US9215760, US9193481, US9004402, US8955801, US8955800, US8759717, US8733695, US8511607, US8336816, US7694452, US2015060600, US2014117153, US2013175255, US2013161447, US2012152930, US2012012695, US2010096496, US2009056193, EP2574142, EP2444381, DE202011110333, DE202009018104, DE102013210205, DE102009004045, DE102007001080, CN103496447, CN103277353, CN102910296, CN102826233,

Abstract:
Source: US2007084965A A method of launching a catapult, a catapult and a locking device for a catapult. The catapult comprises a carriage (4) for fastening an aircraft (5). The carriage (4) can be provided with a high acceleration by directing a launching force (F_1) generated by a launching device thereto. The carriage (4) can be held at a launching position (6) by means of the locking device (9). The catapult further comprises a takeoff damper (34) that generates a damping force (F_2) having a direction opposite relative to the launching force. Accordingly, the takeoff damper (34) restricts the acceleration of the carriage (4) at the initial launching moments.

0) US2009284821A – ELECTROCHEMICAL SYSTEM COMPRISING AT LEAST ONE ...

65) Family number: 32634465 (US2009284821A) © PatBase

Title: ELECTROCHEMICAL SYSTEM COMPRISING AT LEAST ONE PARTIAL MAKING UP ZONE

Priority: EP20050791943 20050720 FR20040051786 20040804 WO2005FR50596 20050720

Family:

Publication number	Publication date	Application number	Application date
CN1993648 A	20070704	CN200580026375	20050720
CN1993648 B	20110608	CN200580026375	20050720
DE602005044834 D1	20141106	DE200560044834T	20050720
EP1776612 A1	20070425	EP20050791943	20050720
EP1776612 B1	20141001	EP20050791943	20050720
ES2525683 T3	20141229	ES20050791943T	20050720
FR2874100 A1	20060210	FR20040051786	20040804
FR2874100 B1	20060929	FR20040051786	20040804
IN00200KN2007 A	20070629	IN2007KN00200	20070117
IN263985 B	20141205	IN2007KN00200	20070117
JP2008509430 T2	20080327	JP20070524379T	20050720
JP4926057 B2	20120509	JP20070524379T	20050720
KR101284636 B1	20130710	KR20077002613	20050720
KR20070055494 A	20070530	KR20077002613	20050720
US2009284821 AA	20091119	US20050659087	20050720
US7869114 BB	20110111	US20050659087	20050720
WO06021707 A1	20060302	WO2005FR50596	20050720

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std): DUBRENAT SAMUEL ; SAGE ELECTROCHROMICS INC ; SAINT GOBAIN ; VALENTIN EMMANUEL ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE SOCIETE ANONYME ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN GLASS FRANCE SOC ANONYME ; SAGE ELECTROCHROMICS INC FARIBAULT

Inventor(s):(std): DUBRENAT SAMUEL ; SAMUEL VALENTIN EMMANUEL DUBRE ; VALENTIN EMMANUEL ; SAMUEL DUBRENAT ; EMMANUEL VALENTIN

Inventor(s): VALENTIN EMMANUEL DUBRENAT SAMUEL

Agent(s): BOCKHORNI AND KOLLEGEN PATENT U RECHTSANWAELTE; COLOMBIER CHRISTIAN; DE ELZABURU ALBERTO; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B23K26/00 B24B1/00 B60J1/00 B60J3/04 B60R1/04 C03C27/12 G02F1/15 G02F1/153 G09G3/38 H04N9/16 (Advanced/Invention); B23K26/00 B24B1/00 B60J1/00 B60J3/00 B60R1/02 C03C27/12 G02F1/01 (Core/Invention)

International class (IPC 1–7): G02F1/153

CPC: B32B17/1077 B32B17/10036 B32B17/10376 B32B17/10761 B32B17/10788 G02F1/1533

European class: B32B17/10C4 B32B17/10E32 B32B17/10G28 B32B17/10G30 B32B17/10G36 G02F1/153B

US class: 219/121.69 219/121.690S 219/121.85 219/121.850S 237/81 237/81S 345/105 348/817 359/265 359/265S 359/273 359/273P 359/275 359/275S 451/28 451/28S

Classification Explorer

Cited documents: US6995892 BB, US5770331 A, US5724175 A, US5657150 A, US2004053125 AA, US2002067905 AA, KR970066698 A, KR20030015380 A, KR19970066698, JP2004504630 T2, JP2004504630, JP2004504630, JP2002520653 T2, JP2002520653, JP2002520653, JP2001507818 T2, JP2001507818, JP2001507818, FR2781084 A1,

Forward Citations: WO12043797, WO10119229, US9782949, US9759975, US9728920, US9720298, US9703167, US9690162, US9671665, US9671664, US9664974, US9618819, US9513525, US9482922, US9477129, US9454053, US9442339, US9436054, US9429809, US9387648, US9341912, US9341909, US9341015, US9261751, US9164346, US9140951, US9116410, US9102124, US9019588, US8908259, US8810889, US8764951, US8764950, US8758575, US8749868, US8711465, US8665512, US8643933, US8582193, US8432603, US8300298, US8289609, US8270059, US8243357, US8228592, US8164818, US2014141192, JP2012524291, JP2012524290, JP2009545015, FR2944611, CN103326060, CN102498434,

Abstract:
Source: US2009284821A Electrochromic device having at least one carrier substrate (S1) provided with a functional multilayer defining a deposition zone and comprising, in succession: a first electroconductive layer (1), (the one closest to the substrate); a first electrochemically active layer (2); an electrolyte layer (3); a second electrochemically active layer (4); and a second electroconductive layer (5), characterized in that the functional multilayer is deactivated, with the exception of the first electrochemically active layer (2), in at least a first, partial margination zone (A) located along at least one edge of said deposition zone.

0) US2007102953A – DRAINAGE DEVICE

66) Family number: 34458211 (US2007102953A) © PatBase

Title: DRAINAGE DEVICE

Priority: FR20050011234 20051104 FR20050511234 20051104

Family:

Publication number	Publication date	Application number	Application date
EP1782987 A2	20070509	EP20060350011	20060906
EP1782987 A3	20071003	EP20060350011	20060906
FR2892978 A1	20070511	FR20050011234	20051104
FR2892978 B1	20071214	FR20050011234	20051104
US2007102953 AA	20070510	US20060583151	20061019
US7374234 BB	20080520	US20060583151	20061019

Probable Assignee: HEULIEZ SAS

Assignee(s):(std): BECOT PASCAL ; DESCHATRES BERNARD ; HEULIEZ ; HEULIEZ SA

Assignee(s): HEULIEZ SAS ; HEULIEZ SOC ANONYME ; HEULIEZ SOCIETE ANONYME ; HEULIEZ CONCORD

Inventor(s):(std): BECOT PASCAL ; DESCHATRES BERNARD

Inventor(s): PASCAL BECOT ; BERNARD DESCHATRES

Agent(s): NOVAGRAAF TECHNOLOGIES; CABINET DAVID TOURNEL; PATRICE VIDON; MILES AND STOCKBRIDGE PC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

International class (IPC 8–9): B60J10/00 B60J10/08 B60J10/10 B60J10/12 B60J7/00 B60J7/12 B60R13/07 (Advanced/Invention); B60J10/00 B60J7/00 B60J7/08 B60R13/00 (Core/Invention)

CPC: B60J10/90 B60J7/0084 B60J7/145

European class: B60J10/10 B60J7/00G B60J7/14G2

US class: 296/107.04 296/107.040P 296/208 296/213

Classification Explorer

Cited documents: US6443519 BA, EP1512571 A1, EP1281547, DE10311652 B3,

Forward Citations: US8056966, US7883139, US7866739, US7815252, US7578549, US2010237652, US2010140983, US2010066129, US2010019544, US2008224503, DE102009013508,

Abstract:
Source: US2007102953A Device for draining water from at least one gutter of a retractable vehicle roof, characterized in that the intermediate conduit (9), which is linked to the movement of the moving roof, is attached by its upstream part (9 A) to the drain (8) and linked by its downstream part (9 B) to the drainage conduit (10) by a nesting joint (11), so that when the moving roof moves into the stowed position, this downstream part (9 B) is denested so as to break the continuity, and vice versa when the mobile roof covers the passenger compartment.

0) US2008036240A – COMPOSITE BODY FOR A VEHICLE

67) Family number: 34492479 (US2008036240A) © PatBase

Title: COMPOSITE BODY FOR A VEHICLE

Priority: CA20062596910 20060920 CA20062688900 20060920 CA20062688924 20060920 US20050738032P 20051121 US20050738032P 20051121 US20070782083 20070724 US20060841498P 20060901 CA20072599560 20070829 EP20070017200 20070903 WO2006CA01534 20060920 US20070847411 20070830 US20090626311 20091125 US20090626330 20091125

Family:

Publication number	Publication date	Application number	Application date
AT465928 E	20100515	AT20060790703T	20060920
CA2596910 AA	20070724	CA20062596910	20060920
CA2596910 C	20100824	CA20062596910	20060920
CA2599560 AA	20080301	CA20072599560	20070829
CA2599560 C	20110412	CA20072599560	20070829
CA2688900 AA	20070524	CA20062688900	20060920
CA2688900 C	20120103	CA20062688900	20060920
CA2688924 AA	20070524	CA20062688924	20060920
CA2688924 C	20121204	CA20062688924	20060920
DE602006014018 D1	20100610	DE200660014018T	20060920
DE602007023519 D1	20120823	DE200760023519T	20070903
EP1942039 A1	20080709	EP20070017200	20070903
EP1942039 B1	20120627	EP20070017200	20070903
EP1954548 A1	20080813	EP20060790703	20060920
EP1954548 A4	20081224	EP20060790703	20060920
EP1954548 B1	20100428	EP20060790703	20060920
US2008036240 AA	20080214	US20070782083	20070724
US2008044630 AA	20080221	US20070847411	20070830
US2010140980 AA	20100610	US20090626311	20091125
US2010148537 AA	20100617	US20090626330	20091125
US7862101 BB	20110104	US20070782083	20070724
US7993719 BB	20110809	US20090626330	20091125
US8066321 BB	20111129	US20070847411	20070830
US8205931 BB	20120626	US20090626311	20091125
WO07056840 A1	20070524	WO2006CA01534	20060920

Probable Assignee: FAROEX LTD

Assignee(s):(std)**:** CHURCH KENNETH S ; FAROEX LTD ; LUSK KEVIN ; LUSK KIM ; STANTON WILLIAM H

Assignee(s): FAROEX LTD GIMLI ; FAROES LTD

Inventor(s):(std)**:** CHURCH KENNETH S ; LUSK KEVIN ; LUSK KIM ; STANTON WILLIAM H

Inventor(s): STANTON WILLIAM H WINNIPEG ; CHURCH KENNETH ; STANTON WILLIAM ; LUSK KEVIN MANITOBA

Agent(s): BATTISON WILLIAMS DUPUIS; ADE AND CO INC; JOSTARNDT HANS DIETER; ADRIAN D

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9):	B29C65/00 B29C70/06 B32B3/00 B32B3/02 B60J7/00 B60R27/00 B60R99/00 B61D17/10 B62D25/00 B62D25/02 B62D25/20 B62D29/04 B62D31/02 (Advanced/Invention); B29C65/00 B32B3/02 B60R99/00 B62D25/00 B62D25/20 B62D29/00 B62D31/00 (Core/Invention)
CPC:	B61D17/10 Y10T403/7152 Y10T428/19 B62D31/02 B60R16/0207 B62D27/026 B62D29/043 Y10T428/24612 Y10T428/24653 B62D29/041 B29C70/443 B29C70/865 B29L2031/608 B62D25/087 B62D25/20
European class:	B29C70/44A B60R16/02C B61D17/10 B62D25/08D B62D25/20 B62D27/02C B62D29/04A B62D29/04B B62D31/02 L29C70/86A L29L31/60C
US class:	156/285 156/285S 296/178 296/178P 296/191 296/193.05 296/193.06 296/193.07 296/203.01 296/203.010P 296/203.03 296/210 296/29 403/393 428/172 428/172P 428/177 428/177S 428/57 52/588.1
Classification Explorer	
Cited documents:	WO04000634 A1, WO04000633 A1, WO0000634 A2, US6685254 BB, US6685254 B1, US6375249 BA, US6237989 BA, US6065261 A, US5997075 A, US5938274 A, US5918548 A, US5904972 A, US5876089 A, US5577793 A, US5472290 A, US5433151 A, US5140913 A, US5042395 A, US5041318 A, US4254987 A, US4230361 A, US4059303 A, US3397496 A, EP1495948 A1, EP1115606 A1, EP0622285 A1, EP0439432 A1, EP0063214 A1, DE19806484 A1,
Forward Citations:	WO15038656, WO12079693, USD796419, USD796400, USD782947, US9539771, US9533716, US9381962, US9376125, US9145684, US9139303, US9132859, US9114730, US8966744, US8894132, US8894071, US8888164, US8876148, US8850775, US8807627, US8690226, US8342598, US8215707, US8109551, US2017240215, US2015231990, US2015069782, US2014238262, US2014134361, US2013313863, US2013291464, US2012235453, US2012161469, US2012126580, US2012091669, US2011309547, US2010327617, US2010308620, US2010101876, US2009230729, US2009195015, US2007132280, US2007057535, US2007006986, KR101347760, KR101347759, JP5705330, JP2014504967, ITBO20110045, EP3109123, EP3081449, EP2769896, EP2327609, EP1897788, DE102012213469, DE102012110425, DE102012012490, CN103949811, CN103949811, CN103707944, CN103707944, CN103261007, CN101961984,

Abstract:
Source: US2008036240A A vehicle primarily a mass transit vehicle is formed primarily of composite materials which define a roof section and a floor section of two fiber reinforced sheets connected by an integral core and two rigid side wall sections each formed from welded steel or optionally bolted aluminum defining a series of window openings in a row along the side wall section in a ladder shape. The separate sections are connected to a front end cap and a rear end cap. Mountings for the seats are defined as well as conduits through the floor and roof for electrical and fluid connections. Releasable joints of adhesive are provided between the metal rails and the edges of the composite panels.

0) FR2898300A – WATER DISCHARGE ASSEMBLY FOR E.G. REAR QUARTER ...

68) Family number: 36084231 (FR2898300A) © PatBase

Title: WATER DISCHARGE ASSEMBLY FOR E.G. REAR QUARTER PANEL OF MOTOR VEHICLE, HAS AIR CIRCULATION UNIT POSITIONED ACROSS OPENING IN BODY PART E.G. REAR QUARTER PANEL, AND INCLUDING FLOW SURFACE ORIENTED TOWARDS EXTERIOR BY DESCENDING SLOPE

Priority: FR20060002151 20060310

Family:

Publication number	Publication date	Application number	Application date
FR2898300 A3	20070914	FR20060002151	20060310

Probable Assignee: RENAULT SAS

Assignee(s):(std)**:** RENAULT SAS ; RENAULT SAS SOC PAR ACTIONS SI

Assignee(s): RENAULT SAS SOC PAR ACTIONS SIMPLIFIEE ; RENAULT SAS SOCIETE PAR ACTIONS SIMPLIFIEE

Inventor(s):(std)**:** HEWAK GREGOR ; VILATTE JEAN RENE

International class (IPC 8–9): B60J1/18 B60J1/20 B60J7/04 (Advanced/Invention); B60J1/18 B60J1/20 B60J7/04 (Core/Invention)

CPC: B60H1/249

European class: B60H1/24D9

Classification Explorer

Cited documents: US6409591, US5085132, FR2462290,

Forward Citations: FR2975345, FR2931396,

Abstract:
The assembly (1) has a water collector (2), and an air circulation unit (4) i.e. air exhauster, to permit an air passage between an inner zone and an outer zone of a vehicle. A pipe (8) has ends connected to the collector and the unit, respectively. The pipe and the unit are adapted so that the water flows towards the unit by gravity of the water collector. The unit is positioned across an opening in a body part e.g. rear quarter panel (3), and has a flow surface oriented towards the exterior by descending slope, where the surface is arranged partly outside the vehicle.

0) WO07112116A2 – INTEGRATED MODULE CONNECTION FOR HEV BATTERY C...

69) Family number: 38528929 (WO07112116A2) © PatBase

Title: INTEGRATED MODULE CONNECTION FOR HEV BATTERY

Priority: US20060786171P 20060327 US20060786320P 20060327 US20070888262P 20070205

Family:

Publication number	Publication date	Application number	Application date
WO07112116 A2	20071004	WO2007US07672	20070327
WO07112116 A3	20080131	WO2007US07672	20070327
WO07112118 A2	20071004	WO2007US07682	20070327
WO07112118 A3	20080320	WO2007US07682	20070327
WO07112118 C2	20071122	WO2007US07682	20070327

Probable Assignee: ALCOA INC

Assignee(s):(std)**:** ALCOA CORPORATE CT ; ALCOA INC ; ZHAO WEIPING ; SUMME TODD L ; WARREN CHARLES J ; MURTHA SHAWN J ; COBES JOHN W

Assignee(s): ALCOA CORPORATE CENTER

Inventor(s):(std)**:** COBES JOHN W ; MURTHA SHAWN J ; SUMME TODD L ; WARREN CHARLES J ; ZHAO WEIPING

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60H1/00 B60J5/04 B62D21/15 B62D31/00 H01M2/02 H01M2/10 (Advanced/Invention); B60H1/00 B60J5/04 B62D21/15 B62D31/00 H01M2/02 H01M2/10 (Core/Invention)

CPC: H01M2/0237 H01M2/021 H01M2/0212 H01M2/0262 H01M2/0275 H01M2/0285 H01M2/06 H01M2/1077 H01M2/204 H01M2/206 H01M10/0525 H01M10/0587 H01M10/30 H01M10/345 H01M10/613 H01M10/617 H01M10/625 H01M10/6561 H01M10/6566 Y02T10/7011 B62D21/15 B60G3/185 B60G21/007 B60G2200/13 B60G2206/011 B60G2206/91 B60G2300/13 B60G2300/50 B60H1/00278 B60H2001/003 B60J5/0425 B60L3/0007 B60L3/0046 B60L11/1877 B60L11/1879 B60L2270/145 B62D63/025 Y02T10/7005 Y02T10/705

European class: B60G21/00D B60G3/18B B60H1/00C1 B60J5/04E2B2 B62D21/15 B62D63/02A H01M10/0525 H01M10/30 H01M10/34D H01M2/02B4B H01M2/02B4C H01M2/02C H01M2/02E12 H01M2/02E16 H01M2/02E4 H01M2/06 H01M2/10C4B H01M2/20D2 H01M2/20D4 L60G200/13 L60G206/011 L60G206/91 L60G300/13 L60G300/50 L60H1/00C90 T01M10/0587 T01M10/50C2 T01M10/50C6 T01M10/50D4 T01M10/50K12B T01M10/50K12B6 Y02E60/12B Y02E60/12D Y02T10/70B2

Classification Explorer

Cited documents: WO9824681 A1, WO05092650 A1, WO03019309 A1, WO0182393 A2, US6094927 A, US5695891 A, US5558950 A, US2005138941 AA, JPS608163, JPS59149873, JP9226370 A2, JP60008163 A2, JP59149873 A2, FR2269444 A1, EP1524717 A2, EP1143540 A1, EP0405159 A1, DE4342038 A1,

Forward Citations: WO16008785, WO11067025, WO10003979, US9640790, US9236592, US8647766, US8394525, US7855013, GB2528266, GB2528266, EP2075808, EP2025019, EP2025019, DE102009047490,

Abstract:
The present invention in one embodiment provides a battery module system including a plurality of battery cells in which each battery cell of the plurality of battery cells has an extruded body and comprising a positive terminal and a negative terminal, wherein at least one of the positive terminal and the negative terminal are insulated from the extruded body. In another embodiment, the battery cell body is provided by a stamping operation.

0) US2009181203A – LAMINATED GLAZING AND SEALING AND PERIPHERAL RE...

70) Family number: 40495156 (US2009181203A) © PatBase

Title: LAMINATED GLAZING AND SEALING AND PERIPHERAL REINFORCING MEANS FOR SAME

Priority: FR20060051276 20060410 WO2007FR51073 20070404

Family:

Publication number	Publication date	Application number	Application date
BRPI0710488 A2	20110816	BR2007PI10488	20070404
CA2648396 AA	20081003	CA20072648396	20070404
CN101415550 A	20090422	CN200780012372	20070404
EP2010384 A1	20090107	EP20070731875	20070404
FR2899631 A1	20071012	FR20060051276	20060410
FR2899631 B1	20100226	FR20060051276	20060410
IN04463KN2008 A	20090313	IN2008KN04463	20081105
JP2009533248 T2	20090917	JP20090504791T	20070404
KR20080108110 A	20081211	KR20087023665	20070404
RU2008144182 A	20100520	RU20080144182	20070404
RU2435672 C2	20111210	RU20080144182	20070404
US2009181203 AA	20090716	US20070296035	20070404
WO07116184 A1	20071018	WO2007FR51073	20070404

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** DUBRENAT SAMUEL ; FANTON XAVIER ; SAINT GOBAIN ; VALENTIN EMMANUEL ; SEHN GOBEHN GLASS FRANS ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN GLASS FRANCE SOC ANONYME ; SAINT GOBAIN GLASS FRANCE SOCIETE ANONYME

Inventor(s):(std)**:** DUBRENAT SAMUEL ; EMMANUEL VALENTIN ; FANTON KSAV E ; FANTON XAVIER ; SAMUEL DUBRENAT ; VALENTEHN EHMMANJUEHL ; DJUBRENA SAMJUEHL ; VALENTIN EMMANUEL ; XAVIER FANTON

Inventor(s): DJUBRENA SAMJUEHL' ; VALENTEHN EHMMANJUEHL' ; FANTON KSAV'E

Agent(s): GOUDREAU GAGE DUBUC; COLOMBIER CHRISTIAN ET AL; SAINT GOBAIN RECHERCHE; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B32B17/06 B32B17/10 B32B7/02 B60J1/00 B60J3/00 B64C1/14 C03C27/06 C03C27/12 C09J131/04 C09J175/04 C09K3/10 E04F13/14 E06B3/66 F21V9/06 G02F1/1339 G02F1/153 G02F1/161 (Advanced/Invention);
B32B17/10 B60J3/00 C03C27/12 E04F13/14 (Advanced/Non–invention);
B32B17/06 B32B7/02 B60J1/00 B60J3/00 B64C1/00 C03C27/06 C03C27/12 C09J131/00 C09J175/04 C09K3/10 E04F13/14 E06B3/66 G02F1/01 G02F1/13 (Core/Invention)

International class (IPC 1–7): B32B17/10 B60J3/00

CPC: B32B17/10467 E04F13/145 B32B17/10036 B32B17/10045 B32B17/10302 B32B17/1077 B64C1/1492 G02F1/157

European class: B32B17/10C4 B32B17/10C4B B32B17/10E16B B32B17/10G30 B64C1/14C3 E04F13/14H G02F1/157

US class: 428/38 428/38P

Classification Explorer

Cited documents: US6001487 A, US5657149 A, US5391416 A, US2007020442 AA, US2005002081 AA, US2004233499 AA, US2004067343 AA, JPS635264 B2, JP9311307 A2, JP63005264 B4, JP63005264 B2, JP6095170 A2, JP2007516147 T2, JP2005502578 T2, JP2004511367 T2, JP11228190 A2, JP10193517 A2, FR2857617 A1, FR2829723 A1, EP0836932 A1, EP0575207 A1,

Forward Citations: WO16154089, WO15054112, WO13117847, WO12064510, US9782949, US9728920, US9703167, US9690162, US9671665, US9618819, US9513525, US9482922, US9477130, US9442339, US9436054, US9387648, US9341912, US9341909, US9158172, US9116410, US9102124, US9019588, US8908259, US8810889, US8711465, US8665512, US8643933, US8270059, US8164818, US2014376075, US2014133005, KR101349019, JP6155062, JP5711122, JP2015531701, JP2014182287, JP2011528131, JP2011251502, JP2011251470, FR2922328, CN105857032, CN104520097, CN103228594, CN103228594, CN102830523, CN102458835, CN102458835,

Abstract:
Source: US2009181203A Laminated window comprising two substrates (S1, S2) between which an active system (3) is placed, characterized in that the window is provided with a first peripheral sealing means (10) for sealing the active system 3, in particular against water in vapor form, comprising at least one seal based on one or more hot−melt polymers chosen from at least one of the following polymer families: ethylene/vinyl acetate, polyisobutylene, butyl rubber and polyamide, and a second sealing means (11), especially for sealing against liquid water, this second sealing means being positioned between the substrates and peripherally with respect to the first sealing means (10).

0) US2008309263A – METHOD AND DEVICE FOR CONTROLLING POWER CAR WIN...

71) Family number: 41126715 (US2008309263A) © PatBase

Title: METHOD AND DEVICE FOR CONTROLLING POWER CAR WINDOW LIFT

Priority: CN200710049312 20070613 WO2008CN071272 20080612

Family:

Publication number	Publication date	Application number	Application date
AU2008261419 AA	20081218	AU20080261419	20080612
AU2008261419 BB	20120823	AU20080261419	20080612
BRPI0813109 A2	20141223	BR2008PI13109	20080612
CA2693831 AA	20081218	CA20082693831	20080612
CA2693831 C	20140128	CA20082693831	20080612
CN101070744 A	20071114	CN200710049312	20070613
EP2171196 A1	20100407	EP20080757683	20080612
EP2171196 A4	20140115	EP20080757683	20080612
IN02420MN2009 A	20100604	IN2009MN02420	20091230
JP2010529336 T2	20100826	JP20100511478T	20080612
KR101186118 B1	20120927	KR20107000740	20080612
KR20100050450 A	20100513	KR20107000740	20080612
RU2010100872 A	20110720	RU20100100872	20080612
RU2463427 C2	20121010	RU20100100872	20080612
US2008309263 AA	20081218	US20080137554	20080612
US7973506 BB	20110705	US20080137554	20080612
WO08151573 A1	20081218	WO2008CN71272	20080612

Probable Assignee: GAO QUNTAO

Assignee(s):(std)**:** AUTONET TECHNOLOGIES INC ; GAO QUNTAO ; OTONET TEKNOLODZHIZ INK ; WEN YUANHONG

Assignee(s): GAO QUNTAO ; WEN YUANHONG

Inventor(s):(std)**:** VEHN JUAN KHUN ; WEN YUANHONG

Inventor(s): YUANHONG WEN ; VEHN' JUAN'KHUN

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; HARRISON GODDARD FOOTE; EAGLE IP LIMITED; EAGLE IP LTD; JACQUELINE C; SHENZHEN TRUER IP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/00 B60J1/17 B60J5/04 E05F15/16 E05F15/20 E05F15/695 H02H7/08 H02P3/00 H02P31/00 H02P7/00 (Advanced/Invention);
B60J1/17 B60J5/04 E05F15/16 (Advanced/Non–invention);
B60J1/00 B60J1/17 B60J5/04 E05F15/16 E05F15/20 H02P3/00 H02P31/00 (Core/Invention)

International class (IPC 1–7): E05F15/16

CPC: H02H7/0851

European class: H02H7/085B

US class: 318/264 318/266 318/266P 318/283 318/283S 318/466 318/467 318/468 318/468S

Classification Explorer

Cited documents: US6563279 BB, US6563279 B1, US6236176 BA, US5723959 A, US5714854 A, US5596253 A, US5596253, US5585702 A, US5483135 A, US5459379 A, US5334876 A,

JP6311770 A2, JP4306387 A2, JP3856212 B2, JP11264277 A2, FR2339271 A1, EP0582966 A1, CN1187568 A, CN1180233 A,

Forward Citations: US9544017, US9417099, US9234979, US8493081, US2014175866, RU2493983, KR101323028, CN105971436, CN105735820, CN103161379, CN102383688, CN102383688, CN102359320,

Abstract:
Source: US2008309263A The invention discloses a method for controlling a power car window lift. The method includes the following steps: detecting an operation state signal of the car window with a detection element; inputting the detection signal of the detection element into the controller; and the controller sending a control signal to an actuator, which controls the operation state of the car window lift. The main control element of the controller is a thyristor or an equivalent functional element. The car window lift's operation state signal includes a car window closed obstacle signal, a car window closed−in−place signal, a car window opened−in−place signal, and a car window opened obstacle signal. The invention further discloses a device for implementing the method for controlling the power car window. By application of the invention, the car window will be provided with both an anti−pinch protection function and an overload protection function, and the manufacturing cost very low.

0) EP1870272A2 – VEHICLE WITH A RETRACTABLE ROOF AND A DRAINING ...

72) Family number: 40994648 (EP1870272A2) © PatBase

Title: VEHICLE WITH A RETRACTABLE ROOF AND A DRAINING STRUCTURE FOR THE RETRACTABLE ROOF

Priority: EP20070011964 20070619 JP20060168274 20060619

Family:

Publication number	Publication date	Application number	Application date
DE602007027260 D1	20130207	DE200760027260T	20070619
EP1870272 A2	20071226	EP20070011964	20070619
EP1870272 A3	20090325	EP20070011964	20070619
EP1870272 B1	20121212	EP20070011964	20070619
JP2007331678 A2	20071227	JP20060168274	20060619
JP4922672 B2	20120425	JP20060168274	20060619

Probable Assignee: WEBASTO AG

Assignee(s):(std)**:** MAZDA MOTOR ; WEBASTO AG ; WEBASTO JAPAN KK

Assignee(s): MAZDA MOTOR CORP

Inventor(s):(std)**:** TAGAMI HIROKI ; YAMADA AKIO ; TANOUE HIROKI ; TAKESHITA HIROSHI ; MATSUNOBU TOMOAKI

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

International class (IPC 8–9): B60J1/18 B60J10/00 B60J10/10 B60J7/00 B60J7/14 B60R13/07 (Advanced/Invention); B60J10/00 (Core/Invention)

CPC: B60J7/145 B60J1/1823 B60J7/0084 B60J10/25 B60J10/90 B60R13/07

European class: B60J1/18B2 B60J10/00D6 B60J10/10 B60J7/00G B60J7/14G2 B60R13/07

Classification Explorer

Cited documents: WO200354265, US2006125292 AA, US2006125292, JP2003054265 A2, JP2003054265, DE202006002765 U1

Forward Citations: WO12039033, US9694655, JP6160494, JP5435140, JP5435140, JP2015131624,

Abstract:
Source: EP1870272A2 The drainage structure consists of a rear window [23] that can move freely between a closed configuration that covers the vehicle passenger compartment [13] and an open configuration where the vehicle passenger compartment [13] is open, lower rear weatherstripping [73] that extends along the lower edge of the rear window [23] and has a rear drainage channel [733] extending in that direction, and a drainage hose [8] that connects the lower rear weatherstripping [73] with a vehicle side drain [9] that is on the side of the vehicle. The drainage hose [8] is attached so that it can rotate freely with respect to the vehicle side drain [9] and can freely move in and out, so that when the retractable roof [2] opens and closes the drainage hose rotates freely with respect to the vehicle side drain [9] and freely moves in and out.

0) EP1872993A2 – DRAINING STRUCTURE FOR RETRACTABLE ROOF ABFLUS...

73) Family number: 41013850 (EP1872993A2) © PatBase

Title: DRAINING STRUCTURE FOR RETRACTABLE ROOF

Priority: JP20060168275 20060619

Family:

Publication number	Publication date	Application number	Application date
AT459500 E	20100315	AT20070011963T	20070619
DE602007005050 D1	20100415	DE200760005050T	20070619
EP1872993 A2	20080102	EP20070011963	20070619
EP1872993 A3	20090325	EP20070011963	20070619
EP1872993 B1	20100303	EP20070011963	20070619
JP2007331679 A2	20071227	JP20060168275	20060619
JP4767100 B2	20110907	JP20060168275	20060619

Probable Assignee: NISHIKAWA RUBBER CO

Assignee(s):(std)**:** NISHIKAWA RUBBER CO LTD ; WEBASTO AG ; WEBASTO JAPAN KK

Assignee(s): NISHIKAWA RUBBER CO

Inventor(s):(std)**:** NISHIKAWA SHINJI ; ODOI KOZO ; OODOI KOUZOU ; TSUCHIDA EIJI ; TSUCHIDA HIDESHI ; YAMADA AKIO

Agent(s): THOMA MICHAEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR YU

International class (IPC 8–9): B60J10/00 B60J10/10 (Advanced/Invention); B60J10/00 (Core/Invention)

CPC: B60J10/25 B60J10/90 B60R13/07 B60J1/1823 B60J7/0084 B60J7/145

European class: B60J1/18B2 B60J10/00D6 B60J10/10 B60J7/00G B60J7/14G2 B60R13/07

Classification Explorer

Cited documents: WO200354265, US2003054265 AA, JP62064630 U, JP4331629, JP2003054265 A2, JP2003054265,

DE202006002765 U1

DE10311652 B3,

Forward Citations: WO12039033, JP5435140, JP5435140,

Abstract:
Source: EP1872993A2 To prevent water from leaking from a weatherstripping junction, a lower rear weatherstripping [73] is provided along the lower edge of the rear window [23], and lower middle weatherstripping [63] is provided along the lower edge of the middle roof panel [24]. A water collector [738] that has a collector [738a] that collects water that leaks from the junction and a drain [738b] that drains the water that is collected in the collector [738a] is provided at the junction of the lower rear weatherstripping [73] and lower middle weatherstripping [63]. Along the lower edge of the middle roof panel [24], on the vehicle passenger compartment side of the lower middle weatherstripping [63], there is provided a drainage guide [64] on which is formed an internal drainage channel [641], below the drain [738b], so that, when the retractable roof [2] is in the closed configuration, it holds the water that drains from the drain [738b] and guides it to a drain cover [79].

0) EP1876049B1 – WATER EVACUATION DEVICE FOR A CAR WITH A RETRAC...

74) Family number: 41024187 (EP1876049B1) © PatBase

Title: WATER EVACUATION DEVICE FOR A CAR WITH A RETRACTABLE ROOF

Priority: FR20060006132 20060706

Family:

Publication number	Publication date	Application number	Application date
DE602007001644 D1	20090903	DE200760001644T	20070522
EP1876049 A1	20080109	EP20070350007	20070522
EP1876049 B1	20090722	EP20070350007	20070522
FR2903357 A1	20080111	FR20060006132	20060706
FR2903357 B1	20080815	FR20060006132	20060706

Probable Assignee: HEULIEZ SA

Assignee(s):(std)**:** HEULIEZ ; HEULIEZ SA

Assignee(s): HEULIEZ SOC ANONYME ; HEULIEZ SOCIETE ANONYME

Inventor(s):(std)**:** GUILLEZ JEAN MARC ; GUILLEZ JEAN MARCQ ; QUEVEAU GERARD ; QUEVEAU PAUL

Inventor(s): GERARD QUEVEAU ; JEAN MARC GUILLEZ ; PAUL QUEVEAU

Agent(s): TOURNEL JEAN LOUIS; NOVAGRAAF TECHNOLOGIES; CABINET DAVID TOURNEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO SE SI SK TR YU

International class (IPC 8–9)**:** B60J10/00 B60J7/04 B60J7/047 B60R13/02 B60R13/07 (Advanced/Invention); B60J10/00 B60J7/04 B60R13/00 B60R13/02 (Core/Invention)

CPC: B60J10/25 B60J7/0084

European class: B60J10/00D6 B60J7/00G

Classification Explorer

Cited documents: US6419308 BA, EP1671831 A2, DE3910257 C1,

Abstract:
The device has a retractable roof with a fixed return chute and a mobile return chute connected to an evacuation duct (13), where the fixed chute extends below a front and median panels and is discharged in the mobile chute carried by a rear panel or a plate. The duct is carried by a movable window that is mounted slidingly on a body of a vehicle to which the window is integrated. The duct is connected to a rear glass (10) by displacement and has an inlet that is widened.

0) EP1916138A1 – ROOF TOP OF AN AUTOMOBILE COMPRISING A PANEL MO...

75) Family number: 41749521 (EP1916138A1) © PatBase

Title: ROOF TOP OF AN AUTOMOBILE COMPRISING A PANEL MOVABLE BETWEEN A LOWERED POSITION AND A RAISED POSITION, AND AUTOMOBILE EQUIPPED WITH SUCH A ROOF TOP

Priority: FR20060054607 20061027

Family:

Publication number	Publication date	Application number	Application date
EP1916138 A1	20080430	EP20070118253	20071010
FR2907717 A1	20080502	FR20060054607	20061027
FR2907717 B1	20090130	FR20060054607	20061027

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES SA SOCIETE ANONYME ; PEUGEOT CITROEN AUTOMOBILES SOC ANONYME SA ; PEUGEOT CITROEEN AUTOMOBILES SA

Inventor(s):(std)**:** BERTRAND BELANGER M PASCAL ; BERTRAND BELLANGER PASCAL

Inventor(s): PASCAL BERTRAND BELLANGER ; BERTRAND BELANGER MPASCAL

Agent(s): ALLAIN LAURENT; CABINET WEINSTEIN

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

International class (IPC 8–9): B60J10/12 B60J10/82 B60J7/16 B60J7/19 (Advanced/Invention); B60J10/00 B60J7/00 B60J7/08 (Core/Invention)

CPC: B60J7/1642

European class: B60J7/16G2C

Classification Explorer

Cited documents: JP8258565, JP10100667 A2, DE3103062 A1, DE10242501 A1,

Forward Citations: US8419120, US2012242104,

Abstract:
The top has a mobile rear panel (7) that is mobile between a lower position and a raised position. The rear panel has a front part (7AV) adjacent to a fixed front panel (6) and pivotingly mounted relative to a body (10) of a motor vehicle. The rear panel has a rear part (7AR) with a locking bolt (12) selectively engaged in one of lower and upper housings (13, 14) of a rear crossbar of a top (9) to lock the mobile rear panel in the lower position or raised position, where the housings form a striking plate.

0) EP0865148A1 – COLLECTOR MOTOR WITH OPERATING SENSOR KOMMUTAT...

51) Family number: 11902313 (EP0865148A1) © PatBase

Title: Collector motor with operating sensor

Priority: DE19971010014 19970312

Family:

Publication number	Publication date	Application number	Application date
DE19710014 A1	19980917	DE19971010014	19970312
EP0865148 A1	19980916	EP19980102465	19980213
KR19980080049 A	19981125	KR19980007802	19980310

Probable Assignee: BOSCH GMBH ROBERT

Assignee(s):(std)**:** BOSCH GMBH ROBERT

Assignee(s): ROBERT BOSCH GMBH

Inventor(s):(std)**:** DREIER FRIEDRICH WILHELM ; MOSKOB FRANK ; WEBER MATTHIAS

Inventor(s): WEBER MATTHIAS 76534 BADEN BADEN DE ; MOSKOB FRANK 77815 BUEHL DE ; DREIER FRIEDRICH WILHELM 76547 SINZHEIM DE

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): H02K23/66 H02K5/167 H02K5/22 (Advanced/Invention); H02K5/14 H02K5/15 H02K7/116 (Advanced/Non–invention)

International class (IPC 1–7): B60J1/17 B60J7/057 B60R1/02 G01P13/00 G01P3/42 H01R39/38 H02K11/00 H02K23/66 H02K5/14 H02K5/15 H02K5/22 H05K1/18

CPC: H02K5/148 H02K5/15 H02K5/1672 H02K5/225 H02K7/1166 H02K23/66 H02K2211/03

European class: H02K23/66 H02K5/167C H02K5/22B T02K211/03 T02K5/14C3 T02K5/15 T02K7/116B1

Classification Explorer

Cited documents: WO9214927 A2, GB2266389 A1, FR2691854 A1, EP0629035 A1, EP0618659 A1, DE4326391 A1, DE4315404 A1, DE3634214 A1,

Forward Citations: WO02075899, WO0199259, WO0173926, WO0161828, US7261012, US7138736, US6906438, US6759783, KR100809306, EP1412603, EP1229632, EP1173918, DE10244102, DE10228689, DE10228689, DE102014225357, DE102012025109, DE10010439, DE10010439,

Abstract:
The motor has a brush holder (20) and a bearing plate (40) on the commutator side with an armature shaft bearing (42) and at least one motor operation sensor (56). The bearing plate and the motor operation sensor are mounted on the brush holder. The bearing plate can be plugged onto the brush holder or can be made in one piece with the brush holder. The brush holder can act as the carrier for a circuit board.

0) US2001024370A – A SUN VISOR HAVING AN ELECTRO–LUMINESCENT FILM ...

52) Family number: 30467969 (US2001024370A) © PatBase

Title: A SUN VISOR HAVING AN ELECTRO–LUMINESCENT FILM FOR ILLUMINATING A MIRROR

Priority: AT19970001730 19971013 AT19980000076U 19980212 US19970972915 19971118 US19990378111 19990820 US19990378284 19990820 WO1998EP06481 19981013

Family:

Publication number	Publication date	Application number	Application date
AT173097 A	19990215	AT19970001730	19971013
AT208302 E	20011115	AT19980965132T	19981013
AT2779 U1	19990426	AT19980000076U	19980212
AT405633 B	19991025	AT19970001730	19971013
AU199920472 A1	19990510	AU19990020472	19981013
AU740013 B2	20011025	AU19990020472	19981013
BRPI9812917 A	20001128	BR1998PI12917	19981013
CA2250266 AA	19990413	CA19982250266	19981013
CA2250290 AA	19990413	CA19982250290	19981013
CA2306284 AA	19990429	CA19982306284	19981013
DE59802095 D1	20011213	DE19985002095	19981013
EP1025387 A2	20000809	EP19980965132	19981013
EP1025387 B1	20011107	EP19980965132	19981013
ES2167960 T3	20020516	ES19980965132T	19981013
JP2001520956 T2	20011106	JP20000517222T	19981013
US2001024370 AA	20010927	US19990378111	19990820
US6286983 BA	20010911	US19990378284	19990820
US6497504 BB	20021224	US19990378111	19990820
US6641276 BA	20031104	US20000529051	20000626
WO9920936 A2	19990429	WO1998EP06481	19981013
WO9920936 A3	19990708	WO1998EP06481	19981013
WO9920936 B1	19990902	WO1998EP06481	19981013

Probable Assignee: MAGNAAUTECA ZWEIGNIEDERLASSUNG DER

Assignee(s):(std)**:** FRITZL RAIMUND ; MACHER DAVID ; MAGNA AUTECA AG ; MAGNA AUTECA AG KROTTENDORF ; MAGNA AUTECA KROTTENDORF AG ; MAGNA AUTECA ZWEIGNIEDERLASSUN ; MAGNA AUTECA ZWEIGNIEDERLASSUNG DER MAGNA HOLDING ; ZORN HEINZ ; MAGNA REFLEX HOLDING GMBH ; STARK JOHANN

Assignee(s): MAGNA REFLEX HOLDING GMBH IND ; MAGNAAUTECA ZWEIGNIEDERLASSUNG DER MAGNA HOLDING A ; MAGNAAUTECA ZWEIGNIEDERLASSUNG DER ; MAGNA AUTECA ZWEIGNIEDERLASSUNG DER MAGNA HOLDING AKTIENGESELLSCHAFT ; MAGNA AUTECA ZWEIGNIEDERLASSUNG DER MAGNA HOLDING AG

Inventor(s):(std)**:** DAVID MACHER ; FRITZL RAIMUND ; FRITZT RAIMUND ; HEINZ ZORN ; JOHANN STARK ; MACHER DAVID ; RAIMUND FRITZT ; STARK JOHANN ; ZIORN HEINZ ; ZORN HEINZ

Inventor(s): RAIMUND FRITZL

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): B60Q1/26 B60Q3/02 B60Q3/06 B60R1/12 G09F13/22 H05B33/08 H05B33/12 (Advanced/Invention); G09F13/22 (Advanced/Non–invention); B60Q1/26 B60Q3/00 B60R1/12 H05B33/02 H05B33/12 (Core/Invention);

G09F13/22 (Core/Non–invention)

International class (IPC 1–7): B60J3/00 B60Q1/26 B60Q3/00 B60Q3/02 B60Q3/06 B60R1/06 F21S1/00 G09F13/22 G09G3/12 H05B33/00 H05B33/02 H05B33/08 H05B33/12

CPC: B60Q3/252 B60Q3/745 B60Q3/80 H05B33/12 B60Q1/2665 B60Q2400/10 B60R1/1207 G09F2013/227

European class: B60Q1/26J B60Q1/26J2 B60Q3/02B B60Q3/02B10 B60Q3/02N2 B60Q3/02R B60R1/12A H05B33/12 L60Q400/10 S09F13/22D

US class: 313/269 315/169.3 340/475 362/135 362/136 362/137 362/369 362/390 362/487 362/489 362/492 362/492P 362/494 362/498 362/504 362/540 362/84 362/84S

Classification Explorer

Cited documents: US6279170 BA, US6175191 BA, US6172613 BA, US6144156 A, US6129445 A, US6124647 A, US6121943 A, US6079839 A, US6056425 A, US6037865 A, US6010742 A, US5982105 A, US5967649 A, US5876106 A, US5818174 A, US5788357 A, US5775016 A, US5764141 A, US5620348 A, US5570945 A, US5566384 A, US5564813 A, US5482614 A, US5434013 A, US5175528 A, US5059015 A, US4979079 A, US4947296 A, US4864473 A, US3926470 A, US3621332 A, US3344269 A, US3111275 A, GB2099628 A1, EP0611040 A1, EP0334799 A2, EP0286748 A1, DE29706601 U1, DE2970660,

Forward Citations: WO11057682, WO06135595, WO06135595, WO05039925, WO05039925, WO04050426, WO04050426, WO0223509, WO0223509, WO0071386, USRE42340, US9609222, US9586526, US9573443, US9434301, US8823273, US8531120, US8382189, US8288952, US7994726, US7850350, US7794125, US7781980, US7780322, US7665870, US7534018, US7498749, US7478935, US7445350, US7443101, US7387397, US7360931, US7354166, US7336037, US7316491, US7306345, US7299892, US7287885, US7265306, US7237933, US7229196, US7213962, US7168838, US7150550, US7128461, US7128451, US7128451, US7128449, US7128449, US7119459, US7084531, US7084526, US7066629, US6984900, US6974238, US6952084, US6650066, US6621225, US6597166, US2015138808, US2015103543, US2013201014, US2013125368, US2012080903, US2011019391, US2010225459, US2009116256, US2009046475, US2008225515, US2008137355, US2008123356, US2007245606, US2007201219, US2007121228, US2007053172, US2007047217, US2007041169, US2007002553, US2007001613, US2006261627, US2006067083, US2006062006, US2006061138, US2006060415, US2006054482, US2005281041, US2005253511, US2005242753, US2005195615, US2005180152, US2005145770, US2005135087, US2005111117, US2005083673, US2005030735, US2005024197, US2004208012, US2004189193, US2004165402, US2004120161, US2004114349, US2004090789, US2004080959, US2004080929, US2004062054, US2003090797, US2003076687, KR100935742, JP2007513819, JP2004509010, JP2003523891, GB2418561, GB2418561, GB2418561, GB2418191, GB2363765, EP1868421, EP1680305, EP1514731, EP1403167, EP1304262, EP1304262, DE10341572, DE10341572, DE10338898, DE10338205, DE10319396, DE102013205048, DE102011102532, DE102006028216, DE102005004581, DE10158722, DE10125580, DE10125580, DE10055560, DE10036812,

Abstract:
Source: US2001024370A A sun visor assembly for an automotive vehicle has a sun visor panel and at least one lighting element flush mounted on the sun visor panel. The lighting element is an electroluminescent film electrically connected to a triggering device for energizing the electroluminescent film illuminating the sun visor panel.

53) Family number: 1397888 (US2003029197A) © PatBase

Title: PROCESS FOR MELTING AND REFINING VITRIFIABLE MATERIALS

Priority:

CA19992284890 19990122	CZ19990003169 19990108	JP19990535785 19990108
FR19980002849 19980309	FR19980000176 19980109	FR19980002677 19980305
US19990367879 19990108	US20040841549 20040510	WO1999FR00027 19990108
US20020195070 20020715	US20000367879 20000118	WO1999FR00026 19990108

Family:

Publication number	Publication date	Application number	Application date
BRPI9904797 A	20000516	BR1999PI04797	19990108
CA2283252 AA	19990908	CA19992283252	19990108
CA2283252 C	20081230	CA19992283252	19990108
CN1240634 C	20060208	CN19998000024	19990108
CN1255906 A	20000607	CN19998000024	19990108
CN1827540 A	20060906	CN200510128679	19990108
CN1827540 B	20130522	CN200510128679	19990108
CO5320609 A1	20030930	CO19990001136	19990112
CZ297579 B6	20070207	CZ19990003169	19990108
CZ9903169 A3	20000412	CZ19990003169	19990108
DE69900107 D1	20010621	DE19996000107	19990108
DE69900107 T2	20020321	DE19996000107T	19990108
EP0966406 A1	19991229	EP19990900510	19990108
EP0966406 B1	20010516	EP19990900510	19990108
EP0966408 A1	19991229	EP19990900509	19990108
ES2158732 T3	20010901	ES19990900510T	19990108
FR2773555 A1	19990716	FR19980000176	19980109
FR2773555 B3	20000204	FR19980000176	19980109
FR2773556 A1	19990716	FR19980002677	19980305
FR2773556 B1	20010713	FR19980002677	19980305
FR2775683 A1	19990910	FR19980002849	19980309
FR2775683 B1	20000519	FR19980002849	19980309
IN00765CA1999 A	20060106	IN1999CA00765	19990908
IN202665 B	20070302	IN1999CA00765	19990908
IN203619 B	20070316	IN1999KN00015	19990819
JP2001515453 T2	20010918	JP19990535785T	19990108
JP2002516600 T2	20020604	JP19990535784T	19990108
JP2011011975 A2	20110120	JP20100237960	20101022
KR100583752 B1	20060525	KR19997007780	19990108
KR20000075712 A	20001226	KR19997007780	19990108
KR20000075862 A	20001226	KR19997007940	19990108
PL194008 B1	20070430	PL19990335520	19990108
PL335520 A1	20000425	PL19990335520	19990108
PT966406 T	20011130	PT19990900510T	19990108
RU2233806 C2	20040810	RU19990121340	19990108
RU99121340 A	20010720	RU19990121340	19990108
TR9902155 T1	20000421	TR19990002155T	19990108
US2003029197 AA	20030213	US20020195070	20020715
US2004206124 AA	20041021	US20040841549	20040510
US6460376 BA	20021008	US20000367879	20000118

US6739152 BB	20040525	US20020195070	20020715	
US7624595 BB	20091201	US20040841549	20040510	
WO9935099 A1	19990715	WO1999FR00027	19990108	
WO9935100 A1	19990715	WO1999FR00026	19990108	

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** JEANVOINE PIERRE ; MASSART TANGUY ; SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN VITRAGE ; BERTHEREAU ANNE ; BROWN BRULANT DAVID ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Assignee(s): CHEMICZNA SPOLDZIELNIA PRACY SYNTEZA PL ; SAINT GOBAIN GLASS FRANCE COURBEVOIE

Inventor(s):(std)**:** PIERRE JEANVOINE ; TANGUY MASSART ; MASSART TANGUY ; BROWN BRULANT DAVID ; BERTHEREAU P JEANVOINE T MASSA ; BERTHEREAU ANNE ; JEANVOINE PIERRE ; ANNE BERTHEREAU ; ZHANVUAN P ER ; MASSART T ; MASSAR TANGI ; JEANVOINE P ; BERTHEREAU A ; BERTERO ANN ; ANNE JEANVOINE PIERRE MASSART

Inventor(s): JEANVOINE PIERRE MASSART TANGUY BERTHEREAU ANNE ; ZHANVUAN P'ER ; HOFFMANN BOGUSLAW PL ; BALONIAK SYLWESTER PL ; LUKOWSKI ANDRZEJ PL ; RODRIGUEZ RODRIGUEZ ARMANDO ; RODRIGUEZ CUARTAS RAMON ; P JEANVOINE T MASSART A BERTHEREAU ; NUNEZ HERNANDEZ JUAN ANDRES ; MROCZKIEWICZ ANDRZEJ PL ; A BERTHEREAU ; P JEANVOINE ; T MASSART ; ZYCZYNSKA BALONIAK IRENA PL ; WIKA FELICJA PL

Agent(s): GOUDREAU GAGE DUBUC; SAINT GOBAIN RECHERCHE; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AT BE BR CA CH CN CY CZ DE DK ES FI FR GB GR IE IN IT JP KR LU MC MX NL PL PT RU SE TR US

International class (IPC 8–9): B60J1/00 C03B3/00 C03B3/02 C03B37/014 C03B5/04 C03B5/16 C03B5/187 C03B5/20 C03B5/225 C03B5/235 C03B5/42 C03B5/44 C03C3/083 C03C3/087 C03C3/089 C03C4/02 C03C4/08 (Advanced/Invention);
C03B5/225 C03C3/087 (Advanced/Non–invention);
B60J1/00 C03B5/00 C03C3/076 C03C4/00 (Core/Invention)

International class (IPC 1–7): B60J1/00 C03B5/14 C03B5/16 C03B5/193 C03B5/20 C03B5/225 C03B5/235 C03C3/083 C03C3/087 C03C3/089 C03C4/02 C03C4/08

CPC: B60J1/00 C03C3/083 C03C3/089 C03C4/02 C03C4/08 C03B2211/22 Y02P40/57 C03B3/005 C03B5/20 C03B5/2255 C03B5/2353 Y02P40/55 C03C3/087 C03B5/2252 C03B5/2356

European class: C03B3/00B C03B5/20 C03B5/225B C03B5/225C C03B5/235B C03B5/235C

US class: 65/134.2 65/134.200P 65/134.3 65/134.5 65/134.7 65/134.700S 65/134.9 65/157 65/157P 65/157S 65/337 65/346 65/346S 65/347 65/356 65/356S 65/374.12 65/374.120S 653/460

Classification Explorer

Cited documents: WO9730948 A1, WO9414716 A1, USRE36082 E, US6405564 BA, US6401492 BA, US6334336 BA, US6318126 BA, US6308534 BA, US6294005 BA, US6202445 BA, US6119484 A, US5849058 A, US5551312 A, US5478783 A, US5316563 A, US5246478 A, US4919700 A, US4919697 A, US4812372 A, US4780122 A, US4780121 A, US4738938 A, US4704153 A, US4545800 A, US4539034 A, US4353726 A, US4081261 A, US4040795 A, US3992183 A, US3951635 A, US3938981 A, US3819350 A, US3764287 A, US3754886 A, US3606825 A, US3519412 A, US3260587 A, US2002162358 AA, US2001037661 AA, SU1567527 T, RU1567527, JPS6136125, JPS4975616, JP6305735 A2, JP62003026 A2, JP61048438 A2, JP61036125 A2, JP6056433 A2, JP59111943 A2, JP49075616 A2, JP10036122, GB1416027 A, EP0854118 A1, EP0834481 A1, EP0831071 A1, EP0803479 A1, EP0775671 A1, EP0748776 A2, EP0536049 A1, EP0231518 A2, DE160186 A, DD160186 A1, CS233550 B1,

Forward Citations: WO15014917, WO14055201, WO13188167, WO13132184, WO09060871, WO08093580, WO07116183, WO07108324, WO05118493, WO05110933, WO04092080, WO0046161, USRE46462, US9777922, US9776904, US9776903, US9776902, US9776901, US9751792, US9731990, US9676652, US9676644, US9676643, US9650277, US9643870, US9643869, US9611163, US9580344, US9573831, US9533906, US9533905, US9505646, US9493375, US9492831, US9481593, US9481592, US9394192, US9249042, US9227865, US9145319, US9115017, US9096453, US9096452, US9032760, US9021838, US8997525, US8991215, US8973405,

US8973400, US8875544, US8769992, US8707740, US8707739, US8650914, US8621889, US8561430, US8461070, US8402787, US8322046, US8156766, US7951734, US7678722, US7666806, US7585801, US7565819, US7448231, US7428827, US7383698, US7231788, US7134300, US6883349, US6857999, US6854290, US2017107139, US2016145135, US2016002084, US2014356609, US2011236846, US2011088432, US2011073182, US2010040812, US2009042709, US2009000335, US2008276652, US2008256981, US2008187686, US2008155853, US2008145804, US2008127679, US2007212546, US2007084247, US2006000239, US2005155387, US2005097922, US2005061031, US2005061030, US2005056058, US2005039491, US2004168475, US2004168474, US2004049094, US2003230117, RU2631271, RU2615550, RU2469961, KR101207831, KR101160495, JP5231211, JP2015519289, JP2015511927, JP2014189429, JP2014189428, JP2010507558, JP2008508174, JP2008500255, FR2987617, FR2870842, FR2818358, FR2789384, EP2433911, EP2397446, EP2000440, EP1990321, EP1599423, EP1306353, EP1205445, DE102007002849, DE102007002849, DE10116293, CZ301120, CN105492398, CN104144888, CN104144888, CN102976587,

Abstract:
Source: US2003029197A The subject of the invention is a process for melting and refining vitrifiable materials, such that all or part of the thermal energy necessary for melting the said vitrifiable materials is supplied by the combustion of fossil fuel(s) with at least one oxidizer gas, the said fuel(s)/gas or the gaseous products resulting from the combustion being injected below the level of the mass of vitrifiable materials (7). The refining of the vitrifiable materials after melting comprises at least one step of subjecting them to subatmospheric pressure. The invention also relates to the device for implementing the process and to its applications.

0) US6155635A – SOLAR ROOF FOR MOTOR VEHICLES

54) Family number: 30536143 (US6155635A) © PatBase

Title: SOLAR ROOF FOR MOTOR VEHICLES

Priority: DE19981013324 19980326 DE19995012446 19990326

Family:

Publication number	Publication date	Application number	Application date
DE19813324 A1	19991007	DE19981013324	19980326
DE19813324 B4	20040722	DE19981013324	19980326
DE59912446 D1	20050929	DE19995012446	19990326
EP0952021 A2	19991027	EP19990106083	19990326
EP0952021 A3	20000628	EP19990106083	19990326
EP0952021 B1	20050824	EP19990106083	19990326
JP11321332 A2	19991124	JP19990070548	19990316
US6155635 A	20001205	US19990276758	19990326

Probable Assignee: WEBASTO KAROSSERIESYSTEME GMBH

Assignee(s):(std)**:** WEBASTO KAROSSERIESYST GMBH ; WEBASTO KAROSSERIESYSTEME ; WEBASTO SYSTEMKOMPONENTEN GMBH ; WESBASTO KAROSSERIESYSTEME GMB

Assignee(s): WESBASTO KAROSSERIESYSTEME GMBH ; WEBASTO KAROSSERIESYSTEME GMBH

Inventor(s):(std)**:** WECKER REINHARD

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** B60J7/00 B60J7/043 B60R16/04 H01L31/048 H02S40/34 (Advanced/Invention); B60J7/00 B60J7/04 B60R16/04 H01L31/048 (Core/Invention)

International class (IPC 1–7)**:** B60H1/00 B60J7/043 B60J7/057 B60R16/02 B60R16/04 H01L31/18 H02N6/00

CPC: B60J7/003 B32B17/10018 Y02E10/50 H02S40/34 H01L31/02008 H01L31/048 Y02T10/90

European class: B60J7/00B3 H01L31/048 H01L31/048C Y02E10/50 Y02T10/88

US class: 296/211

Classification Explorer

Cited documents: WO9216972 A1, WO9200457 A1, US5545261 A, US5248278 A, US5154481 A, US5149351 A, PCTGB9200457, JP677514, JP6077514 A2, EP0798787 A2, EP0463351 B1, EP0463351 A2, DE8808782 U, DE4038039 A1, DE4022928 C1, DE3830484 A1, DE3713854 A1, DE3538986 C2, DE3538986 A1,

Forward Citations: WO09050145, WO08154252, US9641124, US9579957, US9278617, US8997901, US8348336, US8177294, US7615883, US6702370, US6672655, US6653553, US6586668, US6550852, US6517148, US6474729, US2016126886, US2011297459, US2010243047, US2010213739, US2010096200, US2010013270, US2009288891, US2008303287, US2007261896, US2005236872, US2003011213, JP5835375, JP2015162608, JP2011500406, FR2971479, FR2922362, EP2487091, EP2377705, EP2282349, EP2107618, EP1601024, EP1504941, EP1504941, EP1154492, DE10336314, DE10336314, DE10231227, DE10204358, DE102009052105, DE102004003328, DE10023546, DE10023543, CN104129252, CN104129252, CN102218984, CN102218984,

Abstract:
Source: US6155635A A solar roof for motor vehicles having a cover (10) with solar cells (22) which are located between an outside cover plate (20) and an inside covering (24), at least one power consumer which is supplied from the solar cells and which is separate from the solar cover (10), and a contact–making means for establishing an electrical connection between the solar cells (22) and the power consumer. The contact–making means has cover–side contacts (30) and roof–side contacts (42) which, at least in the closed solar cover end position, make an electrical connection between the solar cells and the power consumer. To make the cover–side contacts (30) as simple, space–saving and still reliable as possible, the cover–side are integrated within the solar cover (10).

0) DE29913496U1 – ELECTRICAL CONNECTING LINKS FOR VEHICLE GLAZING...

55) Family number: 17000771 (DE29913496U1) © PatBase

Title: Electrical connecting links for vehicle glazings

Priority: DE19992013496U 19990802

Family:

Publication number	Publication date	Application number	Application date
DE29913496 U1	19991118	DE19992013496U	19990802

Probable Assignee: GLAVERBEL

Assignee(s):(std)**:** GLAVERBEL

Assignee(s): GLAVERBEL BRUESSEL BRUXELLES

International class (IPC 8–9)**:** H05B3/84 (Advanced/Invention)

International class (IPC 1–7)**:** B60J1/20 H05B3/12 H05B3/84

CPC: H05B3/84 H05B2203/016

European class: H05B3/84 T05B203/016

Classification Explorer

Abstract:
Source: DE29913496U1 (Claim 1) 1. Fahrzeugverglasungsplatte mit einer Emailschicht (12) und einem glasartigen Verbindungsbereich (13) eines elektrischen Elements, ueberlagernd wenigstens einen Teil der Emailschicht (12), dadurch gekennzeichnet, dass die Fritte der Emailschicht (12) und die Fritte des Verbindungsbereichs (13) auf einer oder mehreren Verbindungen desselben Basiselements basieren.

Machine translation: (Claim 1) 1 Vehicle glass plate with a layer of enamel (12) and a glass–like connecting portion (13) of an electric element, overlapping at least a portion of the enamel layer (12), wherein the frit of the enamel layer (12) and the frit of the connecting portion (13) on one or multiple connections from the same base element based.

0) US2002008483A – METHOD AND CIRCUIT ARRANGEMENT FOR DETECTING MO...

56) Family number: 28165306 (US2002008483A) © PatBase

Title: Method and circuit arrangement for detecting motion, direction and position of a part driven by an electric motor

Priority: DE19981049430 19981027 DE19981055996 19981204 DE19995007851 19991002 US19990433191 19991025 US20010912256 20010723

Family:

Publication number	Publication date	Application number	Application date
DE19855996 C1	19991216	DE19981055996	19981204
DE59907851 D1	20040108	DE19995007851	19991002
EP0997736 A2	20000503	EP19990119605	19991002
EP0997736 A3	20000823	EP19990119605	19991002
EP0997736 B1	20031126	EP19990119605	19991002
ES2210941 T3	20040701	ES19990119605T	19991002
JP2000197388 A2	20000714	JP19990331710	19991019
US2002008483 AA	20020124	US20010912256	20010723
US6545439 BB	20030408	US20010912256	20010723

Probable Assignee: DAIMLERCHRYSLER AG

Assignee(s):(std)**:** CONTI TEMIC MICROELECTRONIC ; DAIMLER CHRYSLER AG ; DAIMLERCHRYSLER AG ; POLLERSBECK WERNER ; ROEDEL REINHOLD ; SCHULTER WOLFGANG ; SPRENG KLAUS

Assignee(s): KAEUFL GEORG ; KESSLER ERWIN ; LIEPOLD ERICH ; CONTI TEMIC MICROELECTRONIC GMBH ; DAIMLER AG

Inventor(s):(std)**:** KAEUFL GEORG ; KAUFL GEORG ; KESLER ERWIN ; KESSLER ERWIN ; LIEPOLD ERICH ; POLLERSBECK WERNER ; RODEL REINHOLD ; ROEDEL REINHOLD ; SCHULTER WOLFGANG ; SCHULTER WOLFGANG DR ; SPRENG KLAUS

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): B60J1/17 E05F15/10 G01P13/04 G01P3/489 H02P3/12 H02P7/06 (Advanced/Invention); B60J1/17 E05F15/10 G01P13/02 G01P3/42 H02P3/06 H02P7/06 (Core/Invention)

International class (IPC 1–7): B60J1/17 E05F15/10 G01B7/00 G01P13/04 G01P13/4 H02M3/00 H02P1/00 H02P1/22 H02P1/40 H02P3/00 H02P3/12 H02P3/20 H02P5/00 H02P7/00 H02P7/06

CPC: G01P3/489 G01P13/045

European class: G01P13/04B G01P3/489

US class: 318/266 318/280 318/280P 318/281 318/283 318/290 318/432 318/434 318/445 318/466

Classification Explorer

Cited documents: US6281647 BA, US6150784 A, US5966071 A, US5796231 A, US5780988 A, US5754017 A, US5714854 A, US5378976 A, US4441076 A, US4319170 A, JP7222477 A2, JP63304307 A2, JP11078514 A2, JP11062380 A2, EP0603506 A2, EP0359853 B1, EP0359853 A1, DE4315637 C2, DE4315637 A1, DE19733581 C1,

Forward Citations: WO09000579, WO09000579, WO09000576, WO09000576, WO08104640, US9305589, US9109924, US8754600, US8248017, US8193746, US7402971, US7342369, US7122982, US7099761, US7064509, US6879121, US6859030, US6809488, US6768282, US2014049270, US2012326706, US2012032671, US2010283417, US2010117583, US2009289486, US2007194736, US2007176463, US2006017412, EP2420203, EP1287610, EP1208637, DE20213758, DE10223062, DE102014226156, DE102009010408, DE10130183, DE10130183, DE10028039, DE10028038, DE10028035, DE10009391, DE10007690,

Abstract:
Source: US2002008483A An electric motor for driving a component, such as a vehicle window lifter or a machine tool, functions as a generator, when the motor drive voltage is switched off and the motor is short circuited. The motor keeps running due to inertia or other influences. During this period after switch–off a generator voltage and respective generator current are produced. The generator current is measured for various purposes, preferably in combination with a measured r.p.m. signal. The generator current signal alone, or in combination with the r.p.m.

signal, is evaluated to provide information regarding the motion of the driven component including information regarding the motion direction and position of the component.

0) US2002108325A – STRUCTURAL REINFORCEMENT SYSTEM FOR REINFORCING...

57) Family number: 28240412 (US2002108325A) © PatBase

Title: Structural reinforcement system for reinforcing openings formed in structures

Priority: US19990257875 19990225 US20000497414 20000203 US20020057811 20020125 WO2000US03343 20000209

Family:

Publication number	Publication date	Application number	Application date
AU200029879 A5	20000914	AU20000029879	20000209
EP1163403 A1	20011219	EP20000908563	20000209
EP1163403 A4	20041201	EP20000908563	20000209
US2002108325 AA	20020815	US20020057811	20020125
US6192637 BA	20010227	US19990257875	19990225
US6374551 BA	20020423	US20000497414	20000203
WO0050704 A1	20000831	WO2000US03343	20000209
WO0050704 B1	20010525	WO2000US03343	20000209

Probable Assignee: EI LAND CORP

Assignee(s):(std)**:** EI LAND CORP ; FRANCIS RALPH C ; HULLS JOHN ; LANDRY JEAN JACQUES ; RICHARDSON ARTHUR B ; BOILEN KENNETH T

Assignee(s): DAVIS RORY R ; RIPE VALUE MANAGEMENT INC

Inventor(s):(std)**:** DAVIS RORY R ; HULLS JOHN ; RICHARDSON ARTHUR B ; LANDRY JEAN JACQUES ; FRANCIS RALPH C ; BOILEN KENNETH T

Inventor(s): JEAN JACQUES LANDRY ; JOHN HULLS ; KENNETH T BOILEN ; RALPH C FRANCIS ; ARTHUR B RICHARDSON

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): B60J5/12 E04H9/02 E05D15/24 E06B1/52 E06B3/48 E06B3/70 (Advanced/Invention); E05D15/24 E06B3/70 (Advanced/Non–invention)

International class (IPC 1–7): E04B1/98 E04H9/02 E05D15/38 E06B1/04 E06B9/11

CPC: E06B3/485 B60J5/12 B60J5/125 E04H9/02 E04H9/028 E05D15/24 E05Y2900/106 E06B1/522 E06B2003/7098 E05B65/0021

European class: B60J5/12 B60J5/12B E04H9/02 E05B65/00G E06B1/52B E06B3/48C P04H9/02S P05D15/24 P05Y900/106 P06B3/70X

US class: 160/133 160/201 160/229.1 160/236 49/199 49/453 52/148 52/149 52/167.3 52/204.1 52/204.100P 52/223.7 52/291 52/656.4 52/656.7 52/657 52/693 52/801.12

Classification Explorer

Cited documents: US6112799 A, US6082429 A, US6062293 A, US6041844 A, US5927019 A, US5887385 A, US5819834 A, US5765622 A, US5749407 A, US5732758 A, US5727614 A, US5697725 A, US5626176 A, US5588270 A, US5584333 A, US5584332 A, US5533561 A, US5522446 A, US5445207 A, US5394923 A, US5375382 A, US5331786 A, US5205096 A, US5022454 A, US4987941 A, US4918890 A, US4810920 A, US4723374 A, US4676293 A, US4545466 A, US4441289 A, US3516474 A, US3443625 A, US3039525 A, US2597786 A, US2124969 A, US2027831 A, US1286664 A, US1262301 A, EP0161753 A1,

Forward Citations: US9759005, US9359809, US9085901, US8985179, US8763319, US8746321, US8635820, US8490670, US8479470, US8397454, US8366083, US8327592, US8136309, US8112968, US8091317, US8001734, US7963074, US7905056, US7891152, US7788878, US7726378, US7634879, US7231742, US7150132, US6840016, US6651395, US2016160843, US2014245674, US2014027069, US2012198772, US2010313496, US2010181029, US2010032107, US2009313931, US2009241427, US2009211194, US2009184223, US2008248708, US2008216423,

US2008060285, US2008016798, US2008016793, US2007283525, US2007261314, US2007215294, US2007056694, US2007028542, US2006265981, US2006243400, US2006237151, US2005284057, US2005257451, US2005229509, US2005055897, US2002002806, US2001002529, GB2516776,

Abstract:
Source: US2002108325A In accordance with the present invention, there is provided a structural reinforcement system for reinforcing and securing an opening in a building/structure. The movable panel is further adapted to augment the shear stiffness of the building/structure when the panel is disposed in a closed position, such that the overall wall with the structural reinforcement system in accordance with the present invention has shear stiffness equal to or better than a uniform shear wall.

0) EP1033271A1 – MICROWAVE PROXIMITY SENSOR MIKROWELLEN– NAEHER...

58) Family number: 12985349 (EP1033271A1) © PatBase

Title: MICROWAVE PROXIMITY SENSOR

Priority: GB19990005030 19990304

Family:

Publication number	Publication date	Application number	Application date
EP1033271 A1	20000906	EP20000301779	20000303
GB9905030 A0	19990428	GB19990005030	19990304

Probable Assignee: MITEL SEMICONDUCTOR LTD

Assignee(s):(std)**:** DYNEX SEMICONDUCTOR LTD ; MITEL SEMICONDUCTOR LTD

Assignee(s): DYNEX SEMICONDUCTOR LIMITED ; MITEL SEMICONDUCTOR LIMITED

Inventor(s):(std)**:** BLUNDEN PETER PHILIP ; REDFERN STEPHEN WILLIAM ; TYSON PAUL ANDREW

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** B60J7/057 E05F15/00 H03K17/94 (Advanced/Invention); B60J7/04 E05F15/00 H03K17/94 (Core/Invention)

International class (IPC 1–7)**:** B60J7/057 E05F15/00 G08B13/24 H03K17/945

CPC: H03K17/94 B60J7/0573 E05F15/431 E05Y2900/542 E05Y2900/55

European class: B60J7/057B E05F15/00B6B2 H03K17/94 P05Y900/542 P05Y900/550

Classification Explorer

Cited documents: US5661385 A, JP1285883, EP0648628 A1,

Forward Citations: WO09013402, US8175769, US7209521, EP1612822, EP1330031, EP1330031, AU2008278934,

Abstract:
Source: EP1033271A1 A sensor arrangement, for detecting the presence of an object such as a human hand, in the aperture of a powered window, sunroof or the like includes a balanced transmission line 31,32 associated with the aperture. The transmission line is fed with microwave frequency signals from an oscillator 10, which signals are modulated with signals from an oscillator 61, via a balun 62. Signals received from the transmission line 31,32 are filtered by a filter 95 to isolate signals at the modulation frequency, and the resulting signal is subsequently applied to a window comparator 98. A detection signal is provided when an object is detected near to the transmission line 31,32. The detection signal is used to control the powered window, sunroof etc. accordingly.

0) US6568738B – OPTICAL GLARE LIMITER

59) Family number: 26605821 (US6568738B)

© PatBase

Title: OPTICAL GLARE LIMITER

Priority: DE19991041125 19990825 DE20001082452 20000825 DE20002023070U 20000825 WO2000DE02983 20000825 DE20005001025 20000825 WO2000DE002983 20011229

Family:

Publication number	Publication date	Application number	Application date
AT230358 E	20030115	AT20000963950T	20000825
AU200075062 A1	20010319	AU20000075062	20000825
AU200075062 A5	20010319	AU20000075062	20000825
BRPI0012214 A	20020312	BR2000PI12214	20000825
CA2381440 AA	20020207	CA20002381440	20000825
CN1209257 C	20050706	CN20008010170	20000825
CN1360547 A	20020724	CN20008010170	20000825
CZ20014714 A3	20030416	CZ20010004714	20000825
CZ298099 B6	20070620	CZ20010004714	20000825
DE10082452 D2	20020214	DE20001082452	20000825
DE19941125 A1	20010308	DE19991041125	19990825
DE20023070 U1	20021205	DE20002023070U	20000825
DE50001025 D1	20030206	DE20005001025	20000825
EP1206370 A1	20020522	EP20000963950	20000825
EP1206370 B1	20030102	EP20000963950	20000825
ES2190987 T3	20030901	ES20000963950T	20000825
HK1047568 A1	20060217	HK20020108651	20021129
JP2003507249 T2	20030225	JP20010518283T	20000825
KR100722951 B1	20070530	KR20017016904	20000825
KR20030038286 A	20030516	KR20017016904	20000825
MXPA01013146 A1	20030820	MX2001PA13146	20000825
PL352945 A1	20030922	PL20000352945	20000825
RU2002104699 A	20031020	RU20020104699	20000825
RU2250839 C2	20050427	RU20020104699	20000825
SK200101853 A5	20020604	SK20010001853	20000825
US6568738 BA	20030527	US20020049118	20020208
WO0114168 A1	20010301	WO2000DE02983	20000825

Probable Assignee: BRAUN UWE PETER BRAUN

Assignee(s):(std)**:** BRAUN UWE PETER ; BRAUN UWE PETER BRAUN ; BRAUN UWE PETER DIPL ING ; UWE PETER BRAUN

Inventor(s):(std)**:** UWE PETER BRAUN ; BRAUN UWE PETER DIPL ING ; BRAUN UWE PETER ; BRAUN DIPL ING ; BRAUN UVE PETER

Agent(s): ROBIC

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZW

International class (IPC 8–9): B60G1/00 B60J3/00 B60Q3/02 F21S8/10 (Advanced/Invention); B60Q3/02 (Advanced/Non–invention); B60J3/00 B60Q3/00 F21S8/10 (Core/Invention)

International class (IPC 1–7): B60J3/00 B60Q B60Q3/00 B60Q3/02 B60Q9/00 F21S8/10 F21V5/00 F21V9/08 F21W101/08 G02B27/00 G02B5/00

CPC:	B60Q3/72
European class:	B60Q3/02B B60Q3/02J
US class:	296/97.2 296/97.6 296/97.8 296/972 296/976 296/978 359/601

Classification Explorer

Cited documents:	WO9967106 A1, WO0114168 A1, US6079854 A, US6056424 A, US5714751 A, US5613725 A, US5356192 A, US5305012 A, US5258607 A, US5249835 A, US4986592 A, US4905125 A, US4874195 A, US4787735 A, US4427264 A, JP62273117 A2, JP55148617 A2, JP4905125 A2, JP4787735 A2, DE4218436 A1, DE3048424 A1,
Forward Citations:	WO10049548, WO08030334, WO08030334, WO03043856, US9505290, US8899656, US7586079, US7134707, US6568738, US2016214467, US2015083897, US2010194141, US2007012869, US2006198123, US2006175859, EP2329974, EP1577163, EP1577163, DE202010002187, CZ299941,

Abstract:
Source: US6568738B An optical glare limiter uses an electrical power source, typically of a motor vehicle. It includes a light sensor component and a light source. The light from the glare limiter light source falling on a reflecting surface depends on the intensity of the light falling on the light sensor component from an external blinding source and can be regulated electronically so that the light in the driver's field of vision has a contrast that is almost homogeneous and widespread with the effect of reducing the blinding effect.

0) US2003006623A – ASSEMBLY OF A VEHICLE WINDOW GLASS WITH A CONTI...

60) Family number: 15385804 (US2003006623A) © PatBase

Title: ASSEMBLY OF A VEHICLE WINDOW GLASS WITH A CONTIGUOUS ELEMENT

Priority: DE19991061706 19991221 DE20006018608 20001221 WO2000FR03656 20001221 JP20010546499 20001221 JP20010546499T 20001221

Family:

Publication number	Publication date	Application number	Application date
AT290476 E	20050315	AT20000993501T	20001221
BRPI0016595 A	20020910	BR2000PI16595	20001221
CN1151040 C	20040526	CN20008017510	20001221
CN1413151 A	20030423	CN20008017510	20001221
CZ20022197 A3	20021016	CZ20020002197	20001221
CZ298516 B6	20071024	CZ20020002197	20001221
DE19961706 A1	20010705	DE19991061706	19991221
DE19961706 B4	20040909	DE19991061706	19991221
DE60018608 C5	20161215	DE20006018608	20001221
DE60018608 D1	20050414	DE20006018608	20001221
DE60018608 T2	20060427	DE20006018608T	20001221
EP1240041 A1	20020918	EP20000993501	20001221
EP1240041 B1	20050309	EP20000993501	20001221
ES2239068 T3	20050916	ES20000993501T	20001221
JP2004501014 T2	20040115	JP20010546499T	20001221
JP2012020736 A2	20120202	JP20110207948	20110922
JP4886955 B2	20120229	JP20010546499T	20001221
MXPA02005492 A1	20020902	MX2002PA05492	20001221
PL204410 B1	20100129	PL20000355569	20001221
PL355569 A1	20040504	PL20000355569	20001221
PT1240041 T	20050729	PT20000993501T	20001221
US2003006623 AA	20030109	US20020176317	20020621
US6722731 BB	20040420	US20020176317	20020621
WO0145974 A1	20010628	WO2000FR03656	20001221

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** BEHREND ULRICH ; CORNILS GERD ; FISCHER FLORIAN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN ; ORTEN THOMAS ; SAINT GOBAIN SEKURIT D GMBH ; SAINT GOBAIN LINAK AS

Assignee(s): SAINT GOBAIN GLASS FRANCE COURBEVOIE ; SAINT GOBAIN SEKURIT DEUTSCHLAND GMBH AND CO KG

Inventor(s):(std)**:** BEHREND U ; BEHREND ULRICH ; CORNILS G ; CORNILS GERD ; FISCHER FLORIAN ; FISHER F ; GERD CORNILS ; ORTEN THOMAS ; THOMAS ORTEN ; ULRICH BEHREND

Inventor(s): U BEHREND ; FLORIAN FISCHER ; G CORNILS ; F FISHER

Agent(s): HITOSHIO AKIO; KAWAGUCHI YOSHIO; OSAKI KATSUMASA

Designated states: AT BE BR CH CN CY CZ DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL PL PT SE TR US

International class (IPC 8–9)**:** B60J1/02 B60J10/02 (Advanced/Invention); B60J1/02 B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/02 B60J1/10 B60J1/18 B60J10/02

CPC: B60J10/70 B60J1/02

European class: B60J1/02 B60J10/02

US class: 296/146.15 296/201 296/93 296/96.21 52/208

Classification Explorer

Cited documents: USRE37395 E, US6158372 A, US6039907 A, US5988730 A, US5935356 A, US5711119 A, US5692953 A, US5603546 A, US5584526 A, US5522636 A, US5507994 A, US5421940 A, US5396746 A, US5352010 A, US5001876 A, US4938526 A, US4584155 A, US347491 A, JP6401621, JP64001621 A2, JP6078029 U, JP58189481 A2, JP0678029 U, FR2754503 A1, EP0742762 B1, EP0611672 A2, EP0490092 A2, EP0401091 A1, EP0163195 A2, EP0145443 B1, EP0127546 A1, DE9113392 U, DE8707322 U, DE4445258 A1, DE4326650 A1, DE4232554 C1, DE3843079 A1, DE3821457 A1, DE3702555 C2, DE3702555 A1, DE3606810 A1, DE3604389 A1, DE04232554,

Forward Citations: WO17089702, WO16189238, WO16128683, WO16124868, WO14177329, WO13120671, WO13091919, WO0185481, US9694659, US9688128, US9399393, US9227498, US9216633, US9168879, US9073421, US9056544, US8998297, US8777298, US8757706, US8714625, US7988223, US7621585, US7438352, US2015197143, US2015091332, US2013214560, US2013033071, US2011121594, US2008067830, US2007029130, US2006008625, US2005284047, US2005218557, US2005179285, US2005132661, JP2007269108, EP2285612, EP1607260, EP1607260, EP1433632, DE202012102712, DE10247229, DE10247229, DE102013012628, DE102012102760, DE102012008934, DE102011056955, DE102011056955, DE102008003252, CZ302211, CN103386932, CN103386932, CN102777104, CN102777104,

Abstract:
Source: US2003006623A A device is provided for assembling a fixed−mount vehicle window glass, particularly a windshield, with a component contiguous with one edge of the vehicle window glass, such as a water tray. A profiled part is fixed to the edge of the window glass. The profiled part may be a profiled strip that adheres to the vehicle window glass, and has a lip which joins smoothly and continuously with the free main face of the vehicle window glass. On its underside, the lip may include means of assembly with the component.

0) US2004159645A – HEATED PANE

61) Family number: 24682748 (US2004159645A) © PatBase

Title: HEATED PANE

Priority: DE20011026869 20010601 DE20026005482 20020522 WO2002FR01718 20020520 WO2002FR01718 20020522 WO2002FR01718 20031105

Family:

Publication number	Publication date	Application number	Application date
AT301915 E	20050815	AT20020735552T	20020522
BRPI0209729 A	20040914	BR2002PI09729	20020522
BRPI0209729 B1	20151020	BR2002PI09729	20020522
CN100375579 C	20080312	CN20028010897	20020522
CN1522553 A	20040818	CN20028010897	20020522
CZ20033276 A3	20040414	CZ20030003276	20020522
DE10126869 A1	20021219	DE20011026869	20010601
DE60205482 D1	20050915	DE20026005482	20020522
DE60205482 T2	20060524	DE20026005482T	20020522
EP1393593 A1	20040303	EP20020735552	20020522
EP1393593 B1	20050810	EP20020735552	20020522
ES2247340 T3	20060301	ES20020735552T	20020522
IN01421KN2003 A	20060310	IN2003KN01421	20031104
IN221883 B	20080711	IN2003KN01421	20031104
JP2004528699 T2	20040916	JP20030501236T	20020522
JP3964388 B2	20070822	JP20030501236T	20020522
KR100855013 B1	20080828	KR20037014411	20020522
KR20040012792 A	20040211	KR20037014411	20020522
MXPA03010871 A1	20040217	MX2003PA10871	20020522
PL200779 B1	20090227	PL20020366525	20020522
PL366525 A1	20050207	PL20020366525	20020522
US2004159645 AA	20040819	US20040479343	20040420
US6914224 BB	20050705	US20040479343	20040420
WO02098176 A1	20021205	WO2002FR01718	20020522

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** DICKERS HEINZ ERICH ; GILLNER MANFRED ; SAIGOBAIN GLASS FRANCE ; SAINT GOBAIN ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SEKURIT D GMBH ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN SA ; SCHMITZ JUERGEN

Assignee(s): SAINT GOBAIN GLASS FRANCE COURBEVOIE ; SCHMITZ JURGEN ; SAINT GOBAIN GLASS FRANCE LES MIROIRS ; SAINT GOBAIN SEKURIT DEUTSCHLAND GMBH AND CO KG

Inventor(s):(std)**:** JURGEN DICKERS HEINZ ERICH GIL ; MANFRED GILLNER ; SCHMITZ J RGEN ; SCHMITZ JURGEN ; SCHMITZ JUERGEN ; GILLNER MANFRED ; DICKERS HEINZ ERICH ; DICKERS HEINZ ERICH GILLNER MANFRED SCHMITZ

Inventor(s): DICKERS HEINZ ERICH GILLNER MANFRED SCHMITZ JURGEN ; JUERGEN SCHMITZ ; J³RGEN SCHMITZ ; HEINZ ERICH DICKERS

Agent(s): HITOSHIO AKIO; TSUBOKURA MICHIAKI; ONO MAKOTO; OSAKI KATSUMASA; KAWAGUCHI YOSHIO; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9):	B60J1/20 B60S1/02 B60S1/56 C03B23/02 H05B3/00 H05B3/10 H05B3/14 H05B3/34 H05B3/84 H05B3/86 (Advanced/Invention); B60J1/20 B60S1/02 B60S1/56 H05B3/00 H05B3/10 H05B3/14 H05B3/84 (Core/Invention)
International class (IPC 1–7):	B32B17/06 B32B17/10 B60J1/00 B60J1/20 B60L1/02 B60S1/02 B60S1/56 C03B23/02 H05B3/00 H05B3/06 H05B3/10 H05B3/12 H05B3/14 H05B3/26 H05B3/84 H05B3/86
CPC:	B32B17/10036 B32B17/10376 B32B17/10761 H05B3/00 H05B3/84 H05B2203/002 H05B2203/016
European class:	B32B17/10C4 B32B17/10E32 B32B17/10G28 H05B3/00 H05B3/84 T05B203/002 T05B203/016
US class:	219/202 219/203 219/213 219/213S 219/522
Classification Explorer	
Cited documents:	US6211491 BA, US6008473 A, US5824993 A, US5650208 A, US5627509 A, US5445694 A, US5434384 A, US4994650 A, US4894513 A, US4755659 A, US4396826 A, US4395622 A, US4071736 A, US3974359 A, US3383762 A, JP61243687, JP61122144 U, JP57140255, FR1544718 A, EP0524537 A2, EP0524537, EP0479154 A1, EP00524537, EP0052453 B1, DE8800823 U, DE69325837 T2, DE3937346 A1, DE3911178 C2, DE29606071 U1, DE1515208 B2,
Forward Citations:	WO17077133, WO16000927, WO09151204, WO09151203, WO09087417, WO09059980, WO05055667, WO05055667, WO05020637, US9624126, US9611171, US9247587, US8546729, US8530792, US8221189, US8022334, US7731373, US7200921, US2015343744, US2014238967, US2013233842, US2011042370, US2011017727, US2011017726, US2010266832, US2010258547, US2010029176, US2009147360, US2009014426, US2007181565, US2006174476, US2006011598, US2005183442, KR101367113, KR101131473, KR100940437, KR100940436, JP2011515809, JP2011514647, JP2011504431, JP2007517360, DE20321682, DE10356607, DE102008017052, DE102007001080, DE102004060032, CN104507675, CN104507675, CN103533686, CN103533686, CN103098541, CN103098541, CN102602265, CN102574738, CN102574738, CN101849429,

Abstract:
Source: US2004159645A A heated window consisting of at least one rigid pane, at least two current busbars of different polarity placed substantially parallel close to one edge of the heated window at different distances from the edge and linear heating resistors electrically connected thereto, characterized in that the busbars lie sideways to the heating resistors and the heating resistors (2) start from a first current busbar (4) and, passing over the other current busbar (3) while being insulated therefrom, in the direction of the window surface and in at least one loop, return toward the other current busbar (3) and are electrically connected thereto.

0) US2005056638A – LAMINATED GLASS PLANE WITH ELECTRICALLY CONTROL...

62) Family number: 28849363 (US2005056638A) © PatBase

Title: LAMINATED GLASS PLANE WITH ELECTRICALLY CONTROLLED FUNCTIONAL ELEMENT

Priority: CZ20050017340U 20051230 DE20011064063 20011224 WO2002FR04326 20021212 WO2002FR04327 20021212 DE20021055199 20021127 DE20012021605U 20011224 WO2002FR04327 20040623

Family:

Publication number	Publication date	Application number	Application date
AU2002364648 AA	20030715	AU20020364648	20021212
AU2002364992 AA	20030730	AU20020364992	20021212
CN100474992 C	20090401	CN20028026076	20021212
CN1608396 A	20050420	CN20028026076	20021212
CN1620841 A	20050525	CN20028028317	20021212
CZ16359 U1	20060412	CZ20050017340U	20051230
CZ20040755 A3	20041215	CZ20040000755	20021212
CZ20040761 A3	20050216	CZ20040000761	20021212
DE10164063 A1	20030710	DE20011064063	20011224
DE10164063 B4	20071206	DE20011064063	20011224
DE10255199 A1	20030710	DE20021055199	20021127
DE20121605 U1	20030508	DE20012021605U	20011224
EP1459602 A2	20040922	EP20020805796	20021212
EP1459603 A1	20040922	EP20020806328	20021212
JP2005513753 T2	20050512	JP20030557259T	20021212
JP2005529450 T2	20050929	JP20030561301T	20021212
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KR100899924 B1	20090528	KR20047009981	20021212
KR100989566 B1	20101025	KR20047009978	20021212
KR20040069342 A	20040805	KR20047009978	20021212
KR20040070272 A	20040806	KR20047009981	20021212
PL201619 B1	20090430	PL20020371290	20021212
PL202079 B1	20090529	PL20020370320	20021212
PL370320 A1	20050516	PL20020370320	20021212
PL371290 A1	20050613	PL20020371290	20021212
US2005056638 AA	20050317	US20040498358	20041029
US2005124257 AA	20050609	US20040498822	20041230
US7009156 BB	20060307	US20040498358	20041029
US7354327 BB	20080408	US20040498822	20041230
WO03056880 A2	20030710	WO2002FR04326	20021212
WO03056880 A3	20040212	WO2002FR04326	20021212
WO03061348 A1	20030724	WO2002FR04327	20021212

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** MAEUSER HELMUT ; SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; F42 S R O ; SAINT GOBAIN GLASS FRANCE LES ; SAINT GOBAIN SEKURIT D GMBH ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE LES MIROIRS 18 AVENUE D ALSACE ; SAINT GOBAIN GLASS FRANCE LES MIROIRS 18 AVENUE D ; F42 SRO ; SAINT GOBAIN SEKURIT DEUTSCHLAND GMBH AND CO KG

Inventor(s):(std)**:** HELMUT MAEUSER ; MAEUSER HELMUT ; MAUSER HELMUT ; ZALABA JAN ; JANOTA FILIP

Agent(s): OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A63F7/00 A63F7/06 A63F7/07 A63F7/22 A63F7/36 B32B17/10 B60J1/20 B60Q3/00 F21K2/00 F21S8/10 F21V33/00 G09F13/22 H01L51/50 H01L51/56 H05B1/02 H05B3/00 H05B3/84 H05B3/86 H05B33/02 H05B33/06 H05B33/08 H05B33/10 H05B33/12 H05B33/14 H05B33/22 H05B33/26 (Advanced/Invention);
B60J1/20 F21W101/08 F21Y105/00 G09F13/22 H01L51/50 H01L51/52 H05B1/02 H05B3/84 H05B33/10 H05B33/14 (Advanced/Non–invention);
A63F7/00 B32B17/06 B60J1/20 B60Q3/00 F21K2/00 F21S8/10 F21V33/00 G09F13/22 H01L51/50 H05B1/02 H05B3/00 H05B3/84 H05B33/02 H05B33/10 H05B33/12 H05B33/14 H05B33/22 H05B33/26 (Core/Invention);
H01L51/50 (Core/Non–invention)

International class (IPC 1–7): B60J1/20 B60Q1/26 F21S8/10 F21V33/00 F21Y105/00 G09F13/22 G09F9/30 H01J9/00 H01L51/20 H05B1/02 H05B3/10 H05B3/16 H05B3/84 H05B33/06 H05B33/08 H05B33/10 H05B33/12 H05B33/14 H05B33/22

CPC: B32B17/10495 H01L51/5215 H05B33/26 H05B33/145 B32B17/10036 B32B17/10174 B32B17/10541 H05B3/86 H05B33/10 H05B33/12 H05B2203/017 H01L51/5203 H01L51/5012 H05B3/84

European class: B32B17/10C4 B32B17/10E10 H05B3/84 H05B3/86 H05B33/10 H05B33/12 H05B33/14F H05B33/26 T01L51/52B2 T05B203/017

US class: 219/202 219/22 219/220 219/220S 219/543 219/548 219/548S 427/66 445/24 445/24P 445/25

Classification Explorer

Cited documents: US6280273 BA, US6185812 BA, US6036823 A, US5757125 A, US4880475 A, US4857920 A, US4513023 A, US3118086 A, US2001000335 AA, JP4253181 A2, JP2001313167 A2, JP2001155852 A2, JP2000348870 A2, JP1235190 A2, JP1235190, JP1189889 A2, JP1189889, EP1124261 A1, EP1100291 A1, EP1083613 A2, EP0853334 A1, EP0267331 A1, DE2934503 A1, DE19810329 A1, DE10126868 A1, DE10102394 A1,

Forward Citations: WO12172258, WO12168628, WO09074266, WO08142008, WO08119899, WO08119899, US9596719, US9269921, US9114425, US9108881, US9099673, US8815373, US8808790, US8786176, US8753906, US8664570, US8593055, US8585860, US8343571, US8339031, US7817327, US7674347, US2014091073, US2013092676, US2012080693, US2011070448, US2010225227, US2010188246, US2010117523, US2010072884, US2009277671, US2009046355, US2007181565, US2007138167, US2006081581, JP5795935, JP2012109226, GB2474722, GB2391896, FR2976729, FR2976439, FR2913146, EP2381745, EP2381744, EP2381743, EP1992478, EP1596405, DE102016205402, DE102008004942, DE102004023420, CN103733372, CN103563479, CN103563479, CN101617418,

Abstract:
Source: US2005056638A A laminated panel assembly including at least one rigid panel, an electrically controllable flat functional element, and at least one electrically conducting thin film. The thin film forms a flat electrode of the functional element. The thin film can be heated by supplying the thin film with an electrical voltage independently of the electrical supply for the functional element. Moreover, undesirable variations in optical properties of the functional element, when such a laminated panel assembly is used at highly fluctuating temperatures, in particular at low temperatures, are thus reduced.

0) US2007020442A – FUNCTIONALIZED SECURITY GLAZING

63) Family number: 41887602 (US2007020442A) © PatBase

Title: FUNCTIONALIZED SECURITY GLAZING

Priority: FR20030008648 20030716 FR20030008648 20030816 WO2004FR01862 20040715

Family:

Publication number	Publication date	Application number	Application date
AR045726 AA	20051109	AR2004P102514	20040716
BRPI0412585 A	20060919	BR2004PI12585	20040715
CN1822951 A	20060823	CN200480020512	20040715
EP1651433 A2	20060503	EP20040767686	20040715
FR2857617 A1	20050121	FR20030008648	20030716
FR2857617 B1	20061027	FR20030008648	20030716
IN00038KN2006 A	20081024	IN2006KN00038	20060104
IN224767 B	20081024	IN2006KN00038	20060104
JP2007516147 T2	20070621	JP20060519964T	20040715
KR101154451 B1	20120615	KR20067000881	20040715
KR20060089205 A	20060808	KR20067000881	20040715
MXPA06000604 A1	20060411	MX2006PA00604	20040715
TH71520 A	20051027	TH20041002705	20040715
US2007020442 AA	20070125	US20060564501	20060705
US8102585 BB	20120124	US20040564501	20040715
WO05007398 A2	20050127	WO2004FR01862	20040715
WO05007398 A3	20050324	WO2004FR01862	20040715

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** BETEILLE FABIEN ; FANTON XAVIER ; GIRON JEAN CHRISTOPHE ; SAINT GOBAIN ; SCHUETT JUERGEN ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE

Inventor(s):(std)**:** FABIEN GIRON JEAN CHRISTOPHE S ; FANTON XAVIER ; GIRON JEAN CHRISTOPHE ; GIRON JEAN CHRISTOPHER ; SCHUETT JUERGEN ; BETEILLE FABIEN

Inventor(s): ETEILLE FABIEN ; FABIEN BETEILLE ; XAVIER FANTON ; GIRON JEAN CHRISTOPHE SCHUETT JUERGEN FANTON... ; GIRON JEAN CHRISTOPHE SCHUETT JUERGEN FANTON XAVIER BETEILLE FABIEN ; GIRON JEANCHRISTOPHE ; JEAN CHRISTOPHE GIRON ; JUERGEN SCHUETT

Agent(s): SAINT GOBAIN RECHERCHE; C IRVIN MCCLELLAND OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B32B17/00 B32B17/06 B32B17/10 B32B23/02 B32B27/00 B60J1/00 B60J3/04 B60R1/00 B60R1/08 C03C27/12 C03C4/00 E06B5/00 G02F1/133 G02F1/15 G02F1/153 G02F1/17 (Advanced/Invention);
B32B17/00 G02F1/133 G02F1/153 (Advanced/Non–invention);
B32B17/00 B32B17/06 B32B23/00 B32B27/00 B60J1/00 B60J3/00 B60R1/00 B60R1/08 C03C27/12 C03C4/00 E06B5/00 G02F1/01 G02F1/13 (Core/Invention);
G02F1/01 G02F1/13 (Core/Non–invention)

International class (IPC 1–7): B32B17/10 B60J1/00 B60J3/04 B60R1/00 B60R1/08 C03C27/12 C03C4/00 C23C22/00 E06B5/00 G02F1/133 G02F1/153 G02F1/17

CPC: B32B17/10513 B32B17/10 B32B17/10036 B32B17/10174 B32B17/10302 B32B17/10761 B32B17/1077 B60R1/088 G02F1/133 G02F1/153 Y10T428/24777 Y10T428/24942 Y10T428/31504

European class: B32B17/10 B32B17/10C4 B32B17/10E10 B32B17/10E16B B32B17/10E40D4 B32B17/10G28 B32B17/10G30 B60R1/08G5 S02F1/133 S02F1/153

US class: 349/16 359/265 359/266 359/270 359/273 359/275 359/432 428/192 428/192P 428/212 428/220 428/220S 428/411.1 428/411.100S 428/426 428/426S 428/432 429/304

Classification Explorer

Cited documents: WO0069692 A1, US7012728 BB, US7002720 BB, US6940628 BB, US6872453 BB, US6791737 BB, US6747779 BA, US6746775 BA, US6529308 BB, US6362914 BB, US6337758 BA, US6294233 BA, US6284360 BA, US6277523 BA, US6248263 BA, US5985486 A, US5694144 A, US5239406 A, US5202787 A, US4874229 A, US4654067 A, US2006033978 AA, US2005147825 AA, US2005041276 AA, US2004229049 AA, US2004169789 AA, US2004067343 AA, US2004053125 AA, US2003064198 AA, US2002037421 AA, JP9165237 A2, JP59003051 A2, JP3115142 A2, JP2003500260 T2, JP10253995 A2, FR308648, FR2829723 A1, FR2227123 A1, FR0308648, EP0753438 A1, EP0723897 A1, EP0641696 A1, EP0353141 A1, BE702812 A,

Forward Citations: WO14135804, WO12089955, WO12007335, WO08078026, WO08078026, WO07116184, WO07095349, WO07077460, WO07000542, WO07000542, WO06092532, WO06092532, USD518726, US9782949, US9728920, US9703167, US9690162, US9671665, US9618819, US9513525, US9482922, US9482921, US9442339, US9436054, US9341912, US9341909, US9316883, US9272941, US9182644, US9158173, US9116410, US9102124, US9091896, US9019588, US8908259, US8810889, US8711465, US8665512, US8643933, US8270059, US8259380, US8164818, US7929194, US2009297806, US2009181203, JP2015145328, JP2014525885, JP2012062038, JP2011524270, JP2011514849, JP2009533248, JP2009522166, FR3003044, FR2909921, FR2899631, FR2886419, FR2882828, EP2700502, EP1859319, CN105246685, CN104114804, CN104114804, CN101616794,

Abstract:
Source: US2007020442A Glazing assembly, comprising in succession: a first rigid substrate (S 1), a second rigid substrate (S 2), at least one active system (3) comprising at least one film and placed between the substrates (S 1 and S 2), at least one polymer film (f 1) having the function of retaining fragments of the glazing assembly should it break, the said film being placed between the substrate (S 1) and the substrate (S 2), characterized in that the active system (3) is on the inner face (2) of the substrate (S 1).

0) US2007084965A – METHOD OF LAUNCHING A CATAPULT, CATAPULT, AND L...

64) Family number: 31935262 (US2007084965A) © PatBase

Title: METHOD OF LAUNCHING A CATAPULT, CATAPULT, AND LOCKING DEVICE

Priority: DE20031052464 20031107 DE20032021682U 20031107 US20060578016 20060503 US20090463617 20090511 FI20030001644 20031112 US20040578016 20041111 WO2004FI00669 20041111 WO2004FR02818 20041103

Family:

Publication number	Publication date	Application number	Application date
AT475056 E	20100815	AT20040798278T	20041111
AT480981 E	20100915	AT20040805369T	20041103
AU2004289845 AA	20050526	AU20040289845	20041111
AU2004289845 BB	20100218	AU20040289845	20041111
CN1875659 A	20061206	CN200480032446	20041103
CN1875659 B	20110608	CN200480032446	20041103
DE10352464 A1	20050623	DE20031052464	20031107
DE20321682 U1	20081113	DE20032021682U	20031107
DE602004028273 D1	20100902	DE200460028273T	20041111
DE602004029072 D1	20101021	DE200460029072T	20041103
EP1680945 A1	20060719	EP20040805369	20041103
EP1680945 B1	20100908	EP20040805369	20041103
EP1685360 A1	20060802	EP20040798278	20041111
EP1685360 B1	20100721	EP20040798278	20041111
ES2348302 T3	20101202	ES20040798278T	20041111
FI115667 B	20050615	FI20030001644	20031112
FI20031644 A0	20031112	FI20030001644	20031112
IL175410 A0	20060905	IL20060175410	20060504
IL175410 A1	20121129	IL20040175410	20041111
JP2007510610 T2	20070426	JP20060537370T	20041103
JP4787164 B2	20111005	JP20060537370T	20041103
PT1680945 T	20101109	PT20040805369T	20041103
TH44573 B	20150608	TH20041004369	20041105
TH70581 A	20050914	TH20041004369	20041105
US2007084965 AA	20070419	US20040578016	20041111
US2007108175 AA	20070517	US20040578326	20041103
US2009250550 AA	20091008	US20090463617	20090511
US7411158 BB	20080812	US20040578326	20041103
US7562843 BB	20090721	US20040578016	20041111
US7954755 BB	20110607	US20090463617	20090511
WO05047803 A1	20050526	WO2004FI00669	20041111
WO05048656 A1	20050526	WO2004FR02818	20041103
ZA200603674 A	20070926	ZA20060003674	20041111

Probable Assignee: ROBONIC LTD OY

Assignee(s):(std)**:** ANDRT JAN ; LIPPONEN PENTTI ; ROBONIC LTD OY ; SAINT GOBAIN ; SAINT GOBAIN SEKURIT D GMBH ; SAINT GOBAIN LINAK AS

Assignee(s): SAINT GOBAIN SEKURIT DEUTSCHLAND GMBH AND CO KG ; SAINT GOBAIN GLASS FRANCE ; OY ROBONIC LTD ; ROBONIC LTD

Inventor(s):(std)**:** PENTTI LIPPONEN ; LIPPONEN PENTTI ; JAN ANDRT ; ANDRT JAN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; AUPETIT MURIEL J C; KUOSMANEN TIMO;

PEARL COHEN ZEDEK LATZER BARATZ; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; LADAS AND PARRY; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; LADAS AND PARRY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J1/20 B60L1/02 B60S1/02 B60S1/58 B64F1/04 B64F1/06 C03C27/12 F41B3/02 F41F3/04 F41F7/00 H05B1/02 H05B3/84 H05B3/86 (Advanced/Invention);
B60J1/20 B60L1/00 B60S1/02 B60S1/56 B64F1/00 C03C27/12 F41B3/00 F41F3/00 F41F7/00 H05B1/02 H05B3/84 (Core/Invention);
F41B (Subclass/Invention)

International class (IPC 1–7): B60J1/00 B64F1/06 F41B3/02 H01B 5 / 14 H01B5/14 H01Q1/32 H05B3/26 H05B3/84

CPC: F41B3/02 F41F3/0406 F41F7/00 B32B17/10385 B32B17/10761 B32B17/10788 B64F1/06 H05B3/84 H05B2203/002 H05B2203/016

European class: B64F1/06 F41B3/02 F41F3/04B F41F7/00 H05B3/84 T05B203/002 T05B203/016

US class: 124/56 219/202 219/203 219/522 219/543 244/63 244/63P

Classification Explorer

Cited documents: US5798499 A, US5182431 A, US5052973 A, US4820902 A, US4284452 A, US4119425 A, US4101099 A, US4101098 A, US4079901 A, US2878357 A, US2727291 A, JP2005529055 T2, JP2005529055, GB2293146 A1, GB2091527 A1, GB150411 A, FR2780381 A1, FR2726533 A1, EP0788294 B1, EP0773705 B1, EP0506521 A1, DE4207638 C2, DE3812319 A1, DE10126869 A1,

Forward Citations: WO14095388, WO14044410, WO13104439, WO13104438, WO12168009, WO12052315, WO12004280, WO10048176, WO10031241, US9783322, US9656765, US9596719, US9434481, US9359807, US9247587, US9215760, US9193481, US9004402, US8955801, US8955800, US8759717, US8733695, US8511607, US8336816, US7694452, US2015060600, US2014117153, US2013175255, US2013161447, US2012152930, US2012012695, US2010096496, US2009056193, EP2574142, EP2444381, DE202011110333, DE202009018104, DE102013210205, DE102009004045, DE102007001080, CN103496447, CN103277353, CN102910296, CN102826233,

Abstract:
Source: US2007084965A A method of launching a catapult, a catapult and a locking device for a catapult. The catapult comprises a carriage (4) for fastening an aircraft (5). The carriage (4) can be provided with a high acceleration by directing a launching force (F_1) generated by a launching device thereto. The carriage (4) can be held at a launching position (6) by means of the locking device (9). The catapult further comprises a takeoff damper (34) that generates a damping force (F_2) having a direction opposite relative to the launching force. Accordingly, the takeoff damper (34) restricts the acceleration of the carriage (4) at the initial launching moments.

0) US2009284821A – ELECTROCHEMICAL SYSTEM COMPRISING AT LEAST ONE ...

65) Family number: 32634465 (US2009284821A) © PatBase

Title: ELECTROCHEMICAL SYSTEM COMPRISING AT LEAST ONE PARTIAL MAKING UP ZONE

Priority: EP20050791943 20050720 FR20040051786 20040804 WO2005FR50596 20050720

Family:

Publication number	Publication date	Application number	Application date
CN1993648 A	20070704	CN200580026375	20050720
CN1993648 B	20110608	CN200580026375	20050720
DE602005044834 D1	20141106	DE200560044834T	20050720
EP1776612 A1	20070425	EP20050791943	20050720
EP1776612 B1	20141001	EP20050791943	20050720
ES2525683 T3	20141229	ES20050791943T	20050720
FR2874100 A1	20060210	FR20040051786	20040804
FR2874100 B1	20060929	FR20040051786	20040804
IN00200KN2007 A	20070629	IN2007KN00200	20070117
IN263985 B	20141205	IN2007KN00200	20070117
JP2008509430 T2	20080327	JP20070524379T	20050720
JP4926057 B2	20120509	JP20070524379T	20050720
KR101284636 B1	20130710	KR20077002613	20050720
KR20070055494 A	20070530	KR20077002613	20050720
US2009284821 AA	20091119	US20050659087	20050720
US7869114 BB	20110111	US20050659087	20050720
WO06021707 A1	20060302	WO2005FR50596	20050720

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std): DUBRENAT SAMUEL ; SAGE ELECTROCHROMICS INC ; SAINT GOBAIN ; VALENTIN EMMANUEL ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE SOCIETE ANONYME ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN GLASS FRANCE SOC ANONYME ; SAGE ELECTROCHROMICS INC FARIBAULT

Inventor(s):(std): DUBRENAT SAMUEL ; SAMUEL VALENTIN EMMANUEL DUBRE ; VALENTIN EMMANUEL ; SAMUEL DUBRENAT ; EMMANUEL VALENTIN

Inventor(s): VALENTIN EMMANUEL DUBRENAT SAMUEL

Agent(s): BOCKHORNI AND KOLLEGEN PATENT U RECHTSANWAELTE; COLOMBIER CHRISTIAN; DE ELZABURU ALBERTO; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B23K26/00 B24B1/00 B60J1/00 B60J3/04 B60R1/04 C03C27/12 G02F1/15 G02F1/153 G09G3/38 H04N9/16 (Advanced/Invention); B23K26/00 B24B1/00 B60J1/00 B60J3/00 B60R1/02 C03C27/12 G02F1/01 (Core/Invention)

International class (IPC 1–7): G02F1/153

CPC: B32B17/1077 B32B17/10036 B32B17/10376 B32B17/10761 B32B17/10788 G02F1/1533

European class: B32B17/10C4 B32B17/10E32 B32B17/10G28 B32B17/10G30 B32B17/10G36 G02F1/153B

US class: 219/121.69 219/121.690S 219/121.85 219/121.850S 237/81 237/81S 345/105 348/817 359/265 359/265S 359/273 359/273P 359/275 359/275S 451/28 451/28S

Classification Explorer

Cited documents: US6995892 BB, US5770331 A, US5724175 A, US5657150 A, US2004053125 AA, US2002067905 AA, KR970066698 A, KR20030015380 A, KR19970066698, JP2004504630 T2, JP2004504630, JP2004504630, JP2002520653 T2, JP2002520653, JP2002520653, JP2001507818 T2, JP2001507818, JP2001507818, FR2781084 A1,

Forward Citations: WO12043797, WO10119229, US9782949, US9759975, US9728920, US9720298, US9703167, US9690162, US9671665, US9671664, US9664974, US9618819, US9513525, US9482922, US9477129, US9454053, US9442339, US9436054, US9429809, US9387648, US9341912, US9341909, US9341015, US9261751, US9164346, US9140951, US9116410, US9102124, US9019588, US8908259, US8810889, US8764951, US8764950, US8758575, US8749868, US8711465, US8665512, US8643933, US8582193, US8432603, US8300298, US8289609, US8270059, US8243357, US8228592, US8164818, US2014141192, JP2012524291, JP2012524290, JP2009545015, FR2944611, CN103326060, CN102498434,

Abstract:
Source: US2009284821A Electrochromic device having at least one carrier substrate (S1) provided with a functional multilayer defining a deposition zone and comprising, in succession: a first electroconductive layer (1), (the one closest to the substrate); a first electrochemically active layer (2); an electrolyte layer (3); a second electrochemically active layer (4); and a second electroconductive layer (5), characterized in that the functional multilayer is deactivated, with the exception of the first electrochemically active layer (2), in at least a first, partial margination zone (A) located along at least one edge of said deposition zone.

0) US2007102953A – DRAINAGE DEVICE

66) Family number: 34458211 (US2007102953A) © PatBase

Title: DRAINAGE DEVICE

Priority: FR20050011234 20051104 FR20050511234 20051104

Family:

Publication number	Publication date	Application number	Application date
EP1782987 A2	20070509	EP20060350011	20060906
EP1782987 A3	20071003	EP20060350011	20060906
FR2892978 A1	20070511	FR20050011234	20051104
FR2892978 B1	20071214	FR20050011234	20051104
US2007102953 AA	20070510	US20060583151	20061019
US7374234 BB	20080520	US20060583151	20061019

Probable Assignee: HEULIEZ SAS

Assignee(s):(std): BECOT PASCAL ; DESCHATRES BERNARD ; HEULIEZ ; HEULIEZ SA

Assignee(s): HEULIEZ SAS ; HEULIEZ SOC ANONYME ; HEULIEZ SOCIETE ANONYME ; HEULIEZ CONCORD

Inventor(s):(std): BECOT PASCAL ; DESCHATRES BERNARD

Inventor(s): PASCAL BECOT ; BERNARD DESCHATRES

Agent(s): NOVAGRAAF TECHNOLOGIES; CABINET DAVID TOURNEL; PATRICE VIDON; MILES AND STOCKBRIDGE PC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

International class (IPC 8–9): B60J10/00 B60J10/08 B60J10/10 B60J10/12 B60J7/00 B60J7/12 B60R13/07 (Advanced/Invention); B60J10/00 B60J7/00 B60J7/08 B60R13/00 (Core/Invention)

CPC: B60J10/90 B60J7/0084 B60J7/145

European class: B60J10/10 B60J7/00G B60J7/14G2

US class: 296/107.04 296/107.040P 296/208 296/213

Classification Explorer

Cited documents: US6443519 BA, EP1512571 A1, EP1281547, DE10311652 B3,

Forward Citations: US8056966, US7883139, US7866739, US7815252, US7578549, US2010237652, US2010140983, US2010066129, US2010019544, US2008224503, DE102009013508,

Abstract:
Source: US2007102953A Device for draining water from at least one gutter of a retractable vehicle roof, characterized in that the intermediate conduit (9), which is linked to the movement of the moving roof, is attached by its upstream part (9 A) to the drain (8) and linked by its downstream part (9 B) to the drainage conduit (10) by a nesting joint (11), so that when the moving roof moves into the stowed position, this downstream part (9 B) is denested so as to break the continuity, and vice versa when the mobile roof covers the passenger compartment.

0) US2008036240A – COMPOSITE BODY FOR A VEHICLE

67) Family number: 34492479 (US2008036240A) © PatBase

Title: COMPOSITE BODY FOR A VEHICLE

Priority: CA20062596910 20060920 CA20062688900 20060920 CA20062688924 20060920 US20050738032P 20051121 US20050738032P 20051121 US20070782083 20070724 US20060841498P 20060901 CA20072599560 20070829 EP20070017200 20070903 WO2006CA01534 20060920 US20070847411 20070830 US20090626311 20091125 US20090626330 20091125

Family:

Publication number	Publication date	Application number	Application date
AT465928 E	20100515	AT20060790703T	20060920
CA2596910 AA	20070724	CA20062596910	20060920
CA2596910 C	20100824	CA20062596910	20060920
CA2599560 AA	20080301	CA20072599560	20070829
CA2599560 C	20110412	CA20072599560	20070829
CA2688900 AA	20070524	CA20062688900	20060920
CA2688900 C	20120103	CA20062688900	20060920
CA2688924 AA	20070524	CA20062688924	20060920
CA2688924 C	20121204	CA20062688924	20060920
DE602006014018 D1	20100610	DE200660014018T	20060920
DE602007023519 D1	20120823	DE200760023519T	20070903
EP1942039 A1	20080709	EP20070017200	20070903
EP1942039 B1	20120627	EP20070017200	20070903
EP1954548 A1	20080813	EP20060790703	20060920
EP1954548 A4	20081224	EP20060790703	20060920
EP1954548 B1	20100428	EP20060790703	20060920
US2008036240 AA	20080214	US20070782083	20070724
US2008044630 AA	20080221	US20070847411	20070830
US2010140980 AA	20100610	US20090626311	20091125
US2010148537 AA	20100617	US20090626330	20091125
US7862101 BB	20110104	US20070782083	20070724
US7993719 BB	20110809	US20090626330	20091125
US8066321 BB	20111129	US20070847411	20070830
US8205931 BB	20120626	US20090626311	20091125
WO07056840 A1	20070524	WO2006CA01534	20060920

Probable Assignee: FAROEX LTD

Assignee(s):(std)**:** CHURCH KENNETH S ; FAROEX LTD ; LUSK KEVIN ; LUSK KIM ; STANTON WILLIAM H

Assignee(s): FAROEX LTD GIMLI ; FAROES LTD

Inventor(s):(std)**:** CHURCH KENNETH S ; LUSK KEVIN ; LUSK KIM ; STANTON WILLIAM H

Inventor(s): STANTON WILLIAM H WINNIPEG ; CHURCH KENNETH ; STANTON WILLIAM ; LUSK KEVIN MANITOBA

Agent(s): BATTISON WILLIAMS DUPUIS; ADE AND CO INC; JOSTARNDT HANS DIETER; ADRIAN D

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9):	B29C65/00 B29C70/06 B32B3/00 B32B3/02 B60J7/00 B60R27/00 B60R99/00 B61D17/10 B62D25/00 B62D25/02 B62D25/20 B62D29/04 B62D31/02 (Advanced/Invention); B29C65/00 B32B3/02 B60R99/00 B62D25/00 B62D25/20 B62D29/00 B62D31/00 (Core/Invention)
CPC:	B61D17/10 Y10T403/7152 Y10T428/19 B62D31/02 B60R16/0207 B62D27/026 B62D29/043 Y10T428/24612 Y10T428/24653 B62D29/041 B29C70/443 B29C70/865 B29L2031/608 B62D25/087 B62D25/20
European class:	B29C70/44A B60R16/02C B61D17/10 B62D25/08D B62D25/20 B62D27/02C B62D29/04A B62D29/04B B62D31/02 L29C70/86A L29L31/60C
US class:	156/285 156/285S 296/178 296/178P 296/191 296/193.05 296/193.06 296/193.07 296/203.01 296/203.010P 296/203.03 296/210 296/29 403/393 428/172 428/172P 428/177 428/177S 428/57 52/588.1
Classification Explorer	
Cited documents:	WO04000634 A1, WO04000633 A1, WO0000634 A2, US6685254 BB, US6685254 B1, US6375249 BA, US6237989 BA, US6065261 A, US5997075 A, US5938274 A, US5918548 A, US5904972 A, US5876089 A, US5577793 A, US5472290 A, US5433151 A, US5140913 A, US5042395 A, US5041318 A, US4254987 A, US4230361 A, US4059303 A, US3397496 A, EP1495948 A1, EP1115606 A1, EP0622285 A1, EP0439432 A1, EP0063214 A1, DE19806484 A1,
Forward Citations:	WO15038656, WO12079693, USD796419, USD796400, USD782947, US9539771, US9533716, US9381962, US9376125, US9145684, US9139303, US9132859, US9114730, US8966744, US8894132, US8894071, US8888164, US8876148, US8850775, US8807627, US8690226, US8342598, US8215707, US8109551, US2017240215, US2015231990, US2015069782, US2014238262, US2014134361, US2013313863, US2013291464, US2012235453, US2012161469, US2012126580, US2012091669, US2011309547, US2010327617, US2010308620, US2010101876, US2009230729, US2009195015, US2007132280, US2007057535, US2007006986, KR101347760, KR101347759, JP5705330, JP2014504967, ITBO20110045, EP3109123, EP3081449, EP2769896, EP2327609, EP1897788, DE102012213469, DE102012110425, DE102012012490, CN103949811, CN103949811, CN103707944, CN103707944, CN103261007, CN101961984,

Abstract:
Source: US2008036240A A vehicle primarily a mass transit vehicle is formed primarily of composite materials which define a roof section and a floor section of two fiber reinforced sheets connected by an integral core and two rigid side wall sections each formed from welded steel or optionally bolted aluminum defining a series of window openings in a row along the side wall section in a ladder shape. The separate sections are connected to a front end cap and a rear end cap. Mountings for the seats are defined as well as conduits through the floor and roof for electrical and fluid connections. Releasable joints of adhesive are provided between the metal rails and the edges of the composite panels.

0) FR2898300A – WATER DISCHARGE ASSEMBLY FOR E.G. REAR QUARTER ...

68) Family number: 36084231 (FR2898300A) © PatBase

Title: WATER DISCHARGE ASSEMBLY FOR E.G. REAR QUARTER PANEL OF MOTOR VEHICLE, HAS AIR CIRCULATION UNIT POSITIONED ACROSS OPENING IN BODY PART E.G. REAR QUARTER PANEL, AND INCLUDING FLOW SURFACE ORIENTED TOWARDS EXTERIOR BY DESCENDING SLOPE

Priority: FR20060002151 20060310

Family:

Publication number	Publication date	Application number	Application date
FR2898300 A3	20070914	FR20060002151	20060310

Probable Assignee: RENAULT SAS

Assignee(s):(std)**:** RENAULT SAS ; RENAULT SAS SOC PAR ACTIONS SI

Assignee(s): RENAULT SAS SOC PAR ACTIONS SIMPLIFIEE ; RENAULT SAS SOCIETE PAR ACTIONS SIMPLIFIEE

Inventor(s):(std)**:** HEWAK GREGOR ; VILATTE JEAN RENE

International class (IPC 8–9): B60J1/18 B60J1/20 B60J7/04 (Advanced/Invention); B60J1/18 B60J1/20 B60J7/04 (Core/Invention)

CPC: B60H1/249

European class: B60H1/24D9

Classification Explorer

Cited documents: US6409591, US5085132, FR2462290,

Forward Citations: FR2975345, FR2931396,

Abstract:
The assembly (1) has a water collector (2), and an air circulation unit (4) i.e. air exhauster, to permit an air passage between an inner zone and an outer zone of a vehicle. A pipe (8) has ends connected to the collector and the unit, respectively. The pipe and the unit are adapted so that the water flows towards the unit by gravity of the water collector. The unit is positioned across an opening in a body part e.g. rear quarter panel (3), and has a flow surface oriented towards the exterior by descending slope, where the surface is arranged partly outside the vehicle.

0) WO07112116A2 – INTEGRATED MODULE CONNECTION FOR HEV BATTERY C...

69) Family number: 38528929 (WO07112116A2) © PatBase

Title: INTEGRATED MODULE CONNECTION FOR HEV BATTERY

Priority: US20060786171P 20060327 US20060786320P 20060327 US20070888262P 20070205

Family:

Publication number	Publication date	Application number	Application date
WO07112116 A2	20071004	WO2007US07672	20070327
WO07112116 A3	20080131	WO2007US07672	20070327
WO07112118 A2	20071004	WO2007US07682	20070327
WO07112118 A3	20080320	WO2007US07682	20070327
WO07112118 C2	20071122	WO2007US07682	20070327

Probable Assignee: ALCOA INC

Assignee(s):(std)**:** ALCOA CORPORATE CT ; ALCOA INC ; ZHAO WEIPING ; SUMME TODD L ; WARREN CHARLES J ; MURTHA SHAWN J ; COBES JOHN W

Assignee(s): ALCOA CORPORATE CENTER

Inventor(s):(std)**:** COBES JOHN W ; MURTHA SHAWN J ; SUMME TODD L ; WARREN CHARLES J ; ZHAO WEIPING

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60H1/00 B60J5/04 B62D21/15 B62D31/00 H01M2/02 H01M2/10 (Advanced/Invention); B60H1/00 B60J5/04 B62D21/15 B62D31/00 H01M2/02 H01M2/10 (Core/Invention)

CPC: H01M2/0237 H01M2/021 H01M2/0212 H01M2/0262 H01M2/0275 H01M2/0285 H01M2/06 H01M2/1077 H01M2/204 H01M2/206 H01M10/0525 H01M10/0587 H01M10/30 H01M10/345 H01M10/613 H01M10/617 H01M10/625 H01M10/6561 H01M10/6566 Y02T10/7011 B62D21/15 B60G3/185 B60G21/007 B60G2200/13 B60G2206/011 B60G2206/91 B60G2300/13 B60G2300/50 B60H1/00278 B60H2001/003 B60J5/0425 B60L3/0007 B60L3/0046 B60L11/1877 B60L11/1879 B60L2270/145 B62D63/025 Y02T10/7005 Y02T10/705

European class: B60G21/00D B60G3/18B B60H1/00C1 B60J5/04E2B2 B62D21/15 B62D63/02A H01M10/0525 H01M10/30 H01M10/34D H01M2/02B4B H01M2/02B4C H01M2/02C H01M2/02E12 H01M2/02E16 H01M2/02E4 H01M2/06 H01M2/10C4B H01M2/20D2 H01M2/20D4 L60G200/13 L60G206/011 L60G206/91 L60G300/13 L60G300/50 L60H1/00C90 T01M10/0587 T01M10/50C2 T01M10/50C6 T01M10/50D4 T01M10/50K12B T01M10/50K12B6 Y02E60/12B Y02E60/12D Y02T10/70B2

Classification Explorer

Cited documents: WO9824681 A1, WO05092650 A1, WO03019309 A1, WO0182393 A2, US6094927 A, US5695891 A, US5558950 A, US2005138941 AA, JPS608163, JPS59149873, JP9226370 A2, JP60008163 A2, JP59149873 A2, FR2269444 A1, EP1524717 A2, EP1143540 A1, EP0405159 A1, DE4342038 A1,

Forward Citations: WO16008785, WO11067025, WO10003979, US9640790, US9236592, US8647766, US8394525, US7855013, GB2528266, GB2528266, EP2075808, EP2025019, EP2025019, DE102009047490,

Abstract:
The present invention in one embodiment provides a battery module system including a plurality of battery cells in which each battery cell of the plurality of battery cells has an extruded body and comprising a positive terminal and a negative terminal, wherein at least one of the positive terminal and the negative terminal are insulated from the extruded body. In another embodiment, the battery cell body is provided by a stamping operation.

0) US2009181203A – LAMINATED GLAZING AND SEALING AND PERIPHERAL RE...

70) Family number: 40495156 (US2009181203A) © PatBase

Title: LAMINATED GLAZING AND SEALING AND PERIPHERAL REINFORCING MEANS FOR SAME

Priority: FR20060051276 20060410 WO2007FR51073 20070404

Family:

Publication number	Publication date	Application number	Application date
BRPI0710488 A2	20110816	BR2007PI10488	20070404
CA2648396 AA	20081003	CA20072648396	20070404
CN101415550 A	20090422	CN200780012372	20070404
EP2010384 A1	20090107	EP20070731875	20070404
FR2899631 A1	20071012	FR20060051276	20060410
FR2899631 B1	20100226	FR20060051276	20060410
IN04463KN2008 A	20090313	IN2008KN04463	20081105
JP2009533248 T2	20090917	JP20090504791T	20070404
KR20080108110 A	20081211	KR20087023665	20070404
RU2008144182 A	20100520	RU20080144182	20070404
RU2435672 C2	20111210	RU20080144182	20070404
US2009181203 AA	20090716	US20070296035	20070404
WO07116184 A1	20071018	WO2007FR51073	20070404

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** DUBRENAT SAMUEL ; FANTON XAVIER ; SAINT GOBAIN ; VALENTIN EMMANUEL ; SEHN GOBEHN GLASS FRANS ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN GLASS FRANCE SOC ANONYME ; SAINT GOBAIN GLASS FRANCE SOCIETE ANONYME

Inventor(s):(std)**:** DUBRENAT SAMUEL ; EMMANUEL VALENTIN ; FANTON KSAV E ; FANTON XAVIER ; SAMUEL DUBRENAT ; VALENTEHN EHMMANJUEHL ; DJUBRENA SAMJUEHL ; VALENTIN EMMANUEL ; XAVIER FANTON

Inventor(s): DJUBRENA SAMJUEHL' ; VALENTEHN EHMMANJUEHL' ; FANTON KSAV'E

Agent(s): GOUDREAU GAGE DUBUC; COLOMBIER CHRISTIAN ET AL; SAINT GOBAIN RECHERCHE; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B32B17/06 B32B17/10 B32B7/02 B60J1/00 B60J3/00 B64C1/14 C03C27/06 C03C27/12 C09J131/04 C09J175/04 C09K3/10 E04F13/14 E06B3/66 F21V9/06 G02F1/1339 G02F1/153 G02F1/161 (Advanced/Invention);
B32B17/10 B60J3/00 C03C27/12 E04F13/14 (Advanced/Non–invention);
B32B17/06 B32B7/02 B60J1/00 B60J3/00 B64C1/00 C03C27/06 C03C27/12 C09J131/00 C09J175/04 C09K3/10 E04F13/14 E06B3/66 G02F1/01 G02F1/13 (Core/Invention)

International class (IPC 1–7): B32B17/10 B60J3/00

CPC: B32B17/10467 E04F13/145 B32B17/10036 B32B17/10045 B32B17/10302 B32B17/1077 B64C1/1492 G02F1/157

European class: B32B17/10C4 B32B17/10C4B B32B17/10E16B B32B17/10G30 B64C1/14C3 E04F13/14H G02F1/157

US class: 428/38 428/38P

Classification Explorer

Cited documents: US6001487 A, US5657149 A, US5391416 A, US2007020442 AA, US2005002081 AA, US2004233499 AA, US2004067343 AA, JPS635264 B2, JP9311307 A2, JP63005264 B4, JP63005264 B2, JP6095170 A2, JP2007516147 T2, JP2005502578 T2, JP2004511367 T2, JP11228190 A2, JP10193517 A2, FR2857617 A1, FR2829723 A1, EP0836932 A1, EP0575207 A1,

Forward Citations: WO16154089, WO15054112, WO13117847, WO12064510, US9782949, US9728920, US9703167, US9690162, US9671665, US9618819, US9513525, US9482922, US9477130, US9442339, US9436054, US9387648, US9341912, US9341909, US9158172, US9116410, US9102124, US9019588, US8908259, US8810889, US8711465, US8665512, US8643933, US8270059, US8164818, US2014376075, US2014133005, KR101349019, JP6155062, JP5711122, JP2015531701, JP2014182287, JP2011528131, JP2011251502, JP2011251470, FR2922328, CN105857032, CN104520097, CN103228594, CN103228594, CN102830523, CN102458835, CN102458835,

Abstract:
Source: US2009181203A Laminated window comprising two substrates (S1, S2) between which an active system (3) is placed, characterized in that the window is provided with a first peripheral sealing means (10) for sealing the active system 3, in particular against water in vapor form, comprising at least one seal based on one or more hot−melt polymers chosen from at least one of the following polymer families: ethylene/vinyl acetate, polyisobutylene, butyl rubber and polyamide, and a second sealing means (11), especially for sealing against liquid water, this second sealing means being positioned between the substrates and peripherally with respect to the first sealing means (10).

0) US2008309263A – METHOD AND DEVICE FOR CONTROLLING POWER CAR WIN...

71) Family number: 41126715 (US2008309263A) © PatBase

Title: METHOD AND DEVICE FOR CONTROLLING POWER CAR WINDOW LIFT

Priority: CN200710049312 20070613 WO2008CN071272 20080612

Family:

Publication number	Publication date	Application number	Application date
AU2008261419 AA	20081218	AU20080261419	20080612
AU2008261419 BB	20120823	AU20080261419	20080612
BRPI0813109 A2	20141223	BR2008PI13109	20080612
CA2693831 AA	20081218	CA20082693831	20080612
CA2693831 C	20140128	CA20082693831	20080612
CN101070744 A	20071114	CN200710049312	20070613
EP2171196 A1	20100407	EP20080757683	20080612
EP2171196 A4	20140115	EP20080757683	20080612
IN02420MN2009 A	20100604	IN2009MN02420	20091230
JP2010529336 T2	20100826	JP20100511478T	20080612
KR101186118 B1	20120927	KR20107000740	20080612
KR20100050450 A	20100513	KR20107000740	20080612
RU2010100872 A	20110720	RU20100100872	20080612
RU2463427 C2	20121010	RU20100100872	20080612
US2008309263 AA	20081218	US20080137554	20080612
US7973506 BB	20110705	US20080137554	20080612
WO08151573 A1	20081218	WO2008CN71272	20080612

Probable Assignee: GAO QUNTAO

Assignee(s):(std)**:** AUTONET TECHNOLOGIES INC ; GAO QUNTAO ; OTONET TEKNOLODZHIZ INK ; WEN YUANHONG

Assignee(s): GAO QUNTAO ; WEN YUANHONG

Inventor(s):(std)**:** VEHN JUAN KHUN ; WEN YUANHONG

Inventor(s): YUANHONG WEN ; VEHN' JUAN'KHUN

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; HARRISON GODDARD FOOTE; EAGLE IP LIMITED; EAGLE IP LTD; JACQUELINE C; SHENZHEN TRUER IP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/00 B60J1/17 B60J5/04 E05F15/16 E05F15/20 E05F15/695 H02H7/08 H02P3/00 H02P31/00 H02P7/00 (Advanced/Invention);
B60J1/17 B60J5/04 E05F15/16 (Advanced/Non–invention);
B60J1/00 B60J1/17 B60J5/04 E05F15/16 E05F15/20 H02P3/00 H02P31/00 (Core/Invention)

International class (IPC 1–7): E05F15/16

CPC: H02H7/0851

European class: H02H7/085B

US class: 318/264 318/266 318/266P 318/283 318/283S 318/466 318/467 318/468 318/468S

Classification Explorer

Cited documents: US6563279 BB, US6563279 B1, US6236176 BA, US5723959 A, US5714854 A, US5596253 A, US5596253, US5585702 A, US5483135 A, US5459379 A, US5334876 A,

JP6311770 A2, JP4306387 A2, JP3856212 B2, JP11264277 A2, FR2339271 A1, EP0582966 A1, CN1187568 A, CN1180233 A,

Forward Citations: US9544017, US9417099, US9234979, US8493081, US2014175866, RU2493983, KR101323028, CN105971436, CN105735820, CN103161379, CN102383688, CN102383688, CN102359320,

Abstract:
Source: US2008309263A The invention discloses a method for controlling a power car window lift. The method includes the following steps: detecting an operation state signal of the car window with a detection element; inputting the detection signal of the detection element into the controller; and the controller sending a control signal to an actuator, which controls the operation state of the car window lift. The main control element of the controller is a thyristor or an equivalent functional element. The car window lift's operation state signal includes a car window closed obstacle signal, a car window closed−in−place signal, a car window opened−in−place signal, and a car window opened obstacle signal. The invention further discloses a device for implementing the method for controlling the power car window. By application of the invention, the car window will be provided with both an anti−pinch protection function and an overload protection function, and the manufacturing cost very low.

0) EP1870272A2 – VEHICLE WITH A RETRACTABLE ROOF AND A DRAINING ...

72) Family number: 40994648 (EP1870272A2) © PatBase

Title: VEHICLE WITH A RETRACTABLE ROOF AND A DRAINING STRUCTURE FOR THE RETRACTABLE ROOF

Priority: EP20070011964 20070619 JP20060168274 20060619

Family:

Publication number	Publication date	Application number	Application date
DE602007027260 D1	20130207	DE200760027260T	20070619
EP1870272 A2	20071226	EP20070011964	20070619
EP1870272 A3	20090325	EP20070011964	20070619
EP1870272 B1	20121212	EP20070011964	20070619
JP2007331678 A2	20071227	JP20060168274	20060619
JP4922672 B2	20120425	JP20060168274	20060619

Probable Assignee: WEBASTO AG

Assignee(s):(std)**:** MAZDA MOTOR ; WEBASTO AG ; WEBASTO JAPAN KK

Assignee(s): MAZDA MOTOR CORP

Inventor(s):(std)**:** TAGAMI HIROKI ; YAMADA AKIO ; TANOUE HIROKI ; TAKESHITA HIROSHI ; MATSUNOBU TOMOAKI

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

International class (IPC 8–9): B60J1/18 B60J10/00 B60J10/10 B60J7/00 B60J7/14 B60R13/07 (Advanced/Invention); B60J10/00 (Core/Invention)

CPC: B60J7/145 B60J1/1823 B60J7/0084 B60J10/25 B60J10/90 B60R13/07

European class: B60J1/18B2 B60J10/00D6 B60J10/10 B60J7/00G B60J7/14G2 B60R13/07

Classification Explorer

Cited documents: WO200354265, US2006125292 AA, US2006125292, JP2003054265 A2, JP2003054265, DE202006002765 U1

Forward Citations: WO12039033, US9694655, JP6160494, JP5435140, JP5435140, JP2015131624,

Abstract:
Source: EP1870272A2 The drainage structure consists of a rear window [23] that can move freely between a closed configuration that covers the vehicle passenger compartment [13] and an open configuration where the vehicle passenger compartment [13] is open, lower rear weatherstripping [73] that extends along the lower edge of the rear window [23] and has a rear drainage channel [733] extending in that direction, and a drainage hose [8] that connects the lower rear weatherstripping [73] with a vehicle side drain [9] that is on the side of the vehicle. The drainage hose [8] is attached so that it can rotate freely with respect to the vehicle side drain [9] and can freely move in and out, so that when the retractable roof [2] opens and closes the drainage hose rotates freely with respect to the vehicle side drain [9] and freely moves in and out.

0) EP1872993A2 – DRAINING STRUCTURE FOR RETRACTABLE ROOF ABFLUS...

73) Family number: 41013850 (EP1872993A2) © PatBase

Title: DRAINING STRUCTURE FOR RETRACTABLE ROOF

Priority: JP20060168275 20060619

Family:

Publication number	Publication date	Application number	Application date
AT459500 E	20100315	AT20070011963T	20070619
DE602007005050 D1	20100415	DE200760005050T	20070619
EP1872993 A2	20080102	EP20070011963	20070619
EP1872993 A3	20090325	EP20070011963	20070619
EP1872993 B1	20100303	EP20070011963	20070619
JP2007331679 A2	20071227	JP20060168275	20060619
JP4767100 B2	20110907	JP20060168275	20060619

Probable Assignee: NISHIKAWA RUBBER CO

Assignee(s):(std)**:** NISHIKAWA RUBBER CO LTD ; WEBASTO AG ; WEBASTO JAPAN KK

Assignee(s): NISHIKAWA RUBBER CO

Inventor(s):(std)**:** NISHIKAWA SHINJI ; ODOI KOZO ; OODOI KOUZOU ; TSUCHIDA EIJI ; TSUCHIDA HIDESHI ; YAMADA AKIO

Agent(s): THOMA MICHAEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR YU

International class (IPC 8–9): B60J10/00 B60J10/10 (Advanced/Invention); B60J10/00 (Core/Invention)

CPC: B60J10/25 B60J10/90 B60R13/07 B60J1/1823 B60J7/0084 B60J7/145

European class: B60J1/18B2 B60J10/00D6 B60J10/10 B60J7/00G B60J7/14G2 B60R13/07

Classification Explorer

Cited documents: WO200354265, US2003054265 AA, JP62064630 U, JP4331629, JP2003054265 A2, JP2003054265,

DE202006002765 U1

DE10311652 B3,

Forward Citations: WO12039033, JP5435140, JP5435140,

Abstract:
Source: EP1872993A2 To prevent water from leaking from a weatherstripping junction, a lower rear weatherstripping [73] is provided along the lower edge of the rear window [23], and lower middle weatherstripping [63] is provided along the lower edge of the middle roof panel [24]. A water collector [738] that has a collector [738a] that collects water that leaks from the junction and a drain [738b] that drains the water that is collected in the collector [738a] is provided at the junction of the lower rear weatherstripping [73] and lower middle weatherstripping [63]. Along the lower edge of the middle roof panel [24], on the vehicle passenger compartment side of the lower middle weatherstripping [63], there is provided a drainage guide [64] on which is formed an internal drainage channel [641], below the drain [738b], so that, when the retractable roof [2] is in the closed configuration, it holds the water that drains from the drain [738b] and guides it to a drain cover [79].

0) EP1876049B1 – WATER EVACUATION DEVICE FOR A CAR WITH A RETRAC...

74) Family number: 41024187 (EP1876049B1) © PatBase

Title: WATER EVACUATION DEVICE FOR A CAR WITH A RETRACTABLE ROOF

Priority: FR20060006132 20060706

Family:

Publication number	Publication date	Application number	Application date
DE602007001644 D1	20090903	DE200760001644T	20070522
EP1876049 A1	20080109	EP20070350007	20070522
EP1876049 B1	20090722	EP20070350007	20070522
FR2903357 A1	20080111	FR20060006132	20060706
FR2903357 B1	20080815	FR20060006132	20060706

Probable Assignee: HEULIEZ SA

Assignee(s):(std)**:** HEULIEZ ; HEULIEZ SA

Assignee(s): HEULIEZ SOC ANONYME ; HEULIEZ SOCIETE ANONYME

Inventor(s):(std)**:** GUILLEZ JEAN MARC ; GUILLEZ JEAN MARCQ ; QUEVEAU GERARD ; QUEVEAU PAUL

Inventor(s): GERARD QUEVEAU ; JEAN MARC GUILLEZ ; PAUL QUEVEAU

Agent(s): TOURNEL JEAN LOUIS; NOVAGRAAF TECHNOLOGIES; CABINET DAVID TOURNEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO SE SI SK TR YU

International class (IPC 8–9)**:** B60J10/00 B60J7/04 B60J7/047 B60R13/02 B60R13/07 (Advanced/Invention); B60J10/00 B60J7/04 B60R13/00 B60R13/02 (Core/Invention)

CPC: B60J10/25 B60J7/0084

European class: B60J10/00D6 B60J7/00G

Classification Explorer

Cited documents: US6419308 BA, EP1671831 A2, DE3910257 C1,

Abstract:
The device has a retractable roof with a fixed return chute and a mobile return chute connected to an evacuation duct (13), where the fixed chute extends below a front and median panels and is discharged in the mobile chute carried by a rear panel or a plate. The duct is carried by a movable window that is mounted slidingly on a body of a vehicle to which the window is integrated. The duct is connected to a rear glass (10) by displacement and has an inlet that is widened.

0) EP1916138A1 – ROOF TOP OF AN AUTOMOBILE COMPRISING A PANEL MO...

75) Family number: 41749521 (EP1916138A1) © PatBase

Title: ROOF TOP OF AN AUTOMOBILE COMPRISING A PANEL MOVABLE BETWEEN A LOWERED POSITION AND A RAISED POSITION, AND AUTOMOBILE EQUIPPED WITH SUCH A ROOF TOP

Priority: FR20060054607 20061027

Family:

Publication number	Publication date	Application number	Application date
EP1916138 A1	20080430	EP20070118253	20071010
FR2907717 A1	20080502	FR20060054607	20061027
FR2907717 B1	20090130	FR20060054607	20061027

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES SA SOCIETE ANONYME ; PEUGEOT CITROEN AUTOMOBILES SOC ANONYME SA ; PEUGEOT CITROEEN AUTOMOBILES SA

Inventor(s):(std)**:** BERTRAND BELANGER M PASCAL ; BERTRAND BELLANGER PASCAL

Inventor(s): PASCAL BERTRAND BELLANGER ; BERTRAND BELANGER MPASCAL

Agent(s): ALLAIN LAURENT; CABINET WEINSTEIN

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

International class (IPC 8–9): B60J10/12 B60J10/82 B60J7/16 B60J7/19 (Advanced/Invention); B60J10/00 B60J7/00 B60J7/08 (Core/Invention)

CPC: B60J7/1642

European class: B60J7/16G2C

Classification Explorer

Cited documents: JP8258565, JP10100667 A2, DE3103062 A1, DE10242501 A1,

Forward Citations: US8419120, US2012242104,

Abstract:
The top has a mobile rear panel (7) that is mobile between a lower position and a raised position. The rear panel has a front part (7AV) adjacent to a fixed front panel (6) and pivotingly mounted relative to a body (10) of a motor vehicle. The rear panel has a rear part (7AR) with a locking bolt (12) selectively engaged in one of lower and upper housings (13, 14) of a rear crossbar of a top (9) to lock the mobile rear panel in the lower position or raised position, where the housings form a striking plate.

0) US2010020381A – FUNCTIONALIZED GLAZING

76) Family number: 41939196 (US2010020381A) © PatBase

Title: FUNCTIONALIZED GLAZING

Priority: FR20060055549 20061215 WO2007FR52451 20071206

Family:

Publication number	Publication date	Application number	Application date
BRPI0721115 A2	20140304	BR2007PI21115	20071206
CN101616794 A	20091230	CN200780046160	20071206
CN101616794 B	20140402	CN200780046160	20071206
EP2117830 A2	20091118	EP20070871885	20071206
FR2909921 A1	20080620	FR20060055549	20061215
FR2909921 B1	20120525	FR20060055549	20061215
JP2010513111 T2	20100430	JP20090540820T	20071206
JP5243447 B2	20130724	JP20090540820T	20071206
KR20090099528 A	20090922	KR20097012273	20071206
MX2009006089 A1	20090626	MX20090006089	20071206
RU2009127096 A	20110120	RU20090127096	20071206
RU2470831 C2	20121227	RU20090127096	20071206
US2010020381 AA	20100128	US20070519182	20071206
US7929194 BB	20110419	US20070519182	20071206
WO08078026 A2	20080703	WO2007FR52451	20071206
WO08078026 A3	20090813	WO2007FR52451	20071206

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** CHAUSSADE PIERRE ; GILLET PIERRE ALAIN ; GIRON JEAN CHRISTOPHE ; LEGOIS VINCENT ; SAINT GOBAIN LINAK AS ; SEHN GOBEHN GLASS FRANS ; SAINT GOBAIN ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN GLASS FRANCE SOC ANONYME ; SAINT GOBAIN GLASS PRANCE ; SAINT GOBAIN GLASS FRANCE SOCIETE ANONYME

Inventor(s):(std)**:** CHAUS SADE PIERRE ; CHAUSSADE PIERRE ; GILLET PIERRE ALAIN ; GIRON JEAN CHRISTOPHE ; LEGOIS VINCENT ; SHOSSAD P ER ; ZHILLE P ER ALEN ; ZHIRON ZHAN KRISTOF ; LEGUA VENSEN ; VINCENT LEGOIS ; PIERRE CHAUSSADE ; PIERRE ALAIN GILLET ; JEAN CHRISTOPHE GIRON

Inventor(s): ZHIRON ZHAN–KRISTOF ; ZHILLE P'ER–ALEN ; SHOSSAD P'ER

Agent(s): COLOMBIER CHRISTIAN; SAINT GOBAIN RECHERCHE; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; SAINT–GOBAIN RECHERCHE

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B32B17/06 B32B17/10 B60J3/04 B64C1/14 B64C15/14 C03C27/12 E06B5/00 G02B27/00 G02F1/01 G02F1/03 G02F1/1333 G02F1/15 G02F1/153 G02F1/17 H05K9/00 (Advanced/Invention); B32B17/06 B32B17/00 B64C1/00 B64C15/00 C03C27/12 G02B27/00 G02F1/01 G02F1/13 H05K9/00 (Core/Invention)

CPC: B32B17/10495 B32B17/10045 B32B17/10174 B32B17/10293 B32B17/10302 B32B17/1077 B32B2605/18 B64C1/1492 H05B3/86 H05B2203/013

European class: B32B17/10C4B B32B17/10E10 B32B17/10E16 B32B17/10E16B B32B17/10E28 B32B17/10E40D4 B32B17/10G30 B64C1/14C3 H05B3/86 L32B605/18 T05B203/013

US class: 349/16 349/16S 359/242 359/245 359/245S 359/275 359/275P 428/426 428/426S

Classification Explorer

Cited documents: US7002720 BB, US3953630 A, US2007020442 AA, US2006086715 AA, US2005002081 AA, SU677647 D, RU5167 U1, JP2005502578 T2, JP2005502578, JP2002187236 A2, JP2002187236, FR2857617 A1, FR2829723 B1, FR2829723 A1, FR2175910 A1, DE10118617 A1, CN1747907, CN1555310, CN1104978,

Forward Citations: WO12085433, US9782949, US9728920, US9703167, US9690162, US9687087, US9671665, US9618819, US9513525, US9498072, US9482922, US9442339, US9436054, US9387648, US9341912, US9341909, US9174721, US9116410, US9102124, US9019588, US8908259, US8810889, US8711465, US8665512, US8643933, US8453396, US8270059, US8164818, US2016031544, US2015223619, US2010127126, FR2998865, FR2969141, FR2938821, EP2988168, EP2740662, CN105584620, CN103847952, CN102233949, CN102233949,

Abstract:
Source: US2010020381A Glazing comprising, in succession: a first rigid substrate (S1); a second rigid substrate (S2); a third rigid substrate (S3); at least one "active" system (A) that includes at least one layer and is placed between the substrates (S1 and S2), the first substrate (S1) optionally being set back in relation to the other two substrates (S2, S3); and at least one polymer film having the function of retaining glazing fragments should the glazing break, said film being placed between the substrate (S1) and the substrate (S2) and between the substrate (S2) and the substrate (S3).

0) US2010006555A – ASSEMBLY FORMED BY AN ELECTRICALLY–HEATABLE GLA...

77) Family number: 41985724 (US2010006555A) © PatBase

Title: ASSEMBLY FORMED BY AN ELECTRICALLY–HEATABLE GLAZING UNIT AND AN APPARATUS SENSITIVE TO MAGNETIC FIELDS

Priority: DE200710001080 20070104 EP20070872018 20071221 WO2007FR52609 20071221

Family:

Publication number	Publication date	Application number	Application date
DE102007001080 A1	20080710	DE200710001080	20070104
DE602007035710 D1	20140430	DE200760035710T	20071221
DK2108238 T3	20140623	DK20070872018T	20071221
EP2108238 A2	20091014	EP20070872018	20071221
EP2108238 B1	20140319	EP20070872018	20071221
ES2463465 T3	20140528	ES20070872018T	20071221
PT2108238 T	20140625	PT20070872018T	20071221
US2010006555 AA	20100114	US20070520340	20071221
US8669493 BB	20140311	US20070520340	20071221
WO08087350 A2	20080724	WO2007FR52609	20071221
WO08087350 A3	20081127	WO2007FR52609	20071221

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** MAURER DR MARC ; MAURER MARC ; MELCHER DR MARTIN ; MELCHER MARTIN ; SAINT GOBAIN ; ZIEGLER DR STEFAN ; SAINT GOBAIN SEKURIT D GMBH ; SANIT GOBAIN GLASS FRANCE ; ZIEGLER STEFAN

Assignee(s): SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN SEKURIT DEUTSCHLAND GMBH AND CO KG

Inventor(s):(std)**:** MAURER DR MARC ; MAURER MARC ; MELCHER DR MARTIN ; MELCHER MARTIN ; ZIEGLER DR STEFAN ; ZIEGLER STEFAN

Inventor(s): MARC MAURER ; MARTIN MELCHER ; STEFAN ZIEGLER

Agent(s): BOCKHORNI AND KOLLEGEN PATENT U RECHTSANWAELTE; LUCAS FRANCOIS; DE ELZABURU ALBERTO; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; SAINT–GOBAIN RECHERCHE

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/00 B60L1/02 B60S1/02 B60S1/58 H05B3/84 (Advanced/Invention); B60L1/00 B60S1/02 B60S1/56 H05B3/84 (Core/Invention)

CPC: H01Q1/1278 H05B3/84 H05B2203/002 H05B2214/02

European class: H01Q1/12G1 H05B3/84 T05B203/002 T05B214/02

US class: 219/202 219/203

Classification Explorer

Cited documents: US6386742 BA, US6140933 A, US5854472 A, US5182431 A, US2878357 A, US2414520 A, US2007278200 AA, US2007159396 AA, US2006267856 AA, US2004200821 AA, US2004065651 AA, JPS5816942, JP5816942, JP58016942 A2, JP11208421 A2, GB1202522 A, EP1684546 A1, DE3644297 A1, DE2148243 A1, DE10352464 A1,

DE102004038448 B3

DE10126869 A1,

Forward Citations: WO11015551, WO10149649, US9277597, US8907250, US8809785, US8431867, US2012000896, US2009166347, JP5753164, JP2012530646, EP2436229, EP2325002,

DE202009018502, DE202009018104, DE102009026319, DE102009026021, DE102009004045,

Abstract:
Source: US2010006555A In an electrically−heated glazing unit including a plurality of collector conductors configured to supply a plurality of heating conductors with an electric current used to heat up the heating conductors and the glazing unit, at least one partial region of the surface of the glazing unit includes an arrangement of parallel heating conductors in which the current flows in opposing directions. The arrangement of the heating conductors in the partial region of the surface is tuned to minimize by mutual compensation or eliminate the magnetic field acting locally within this partial region and perpendicularly to the plane of the glazing unit when the current flows. The operation of an apparatus sensitive to magnetic fields, for example a compass, in the immediate vicinity of the glazing unit thus becomes more reliable.

0) FR2915142B – VEHICULE A TOIT RETRACTABLE.

78) Family number: 42435461 (FR2915142B) © PatBase

Title: VEHICULE A TOIT RETRACTABLE.

Priority: FR20070002832 20070419

Family:

Publication number	Publication date	Application number	Application date
FR2915142 A1	20081024	FR20070002832	20070419
FR2915142 B1	20130426	FR20070002832	20070419

Probable Assignee: HEULIEZ SA

Assignee(s):(std)**:** HEULIEZ ; HEULIEZ SA

Assignee(s): HEULIEZ SOC ANONYME ; HEULIEZ SOCIETE ANONYME

Inventor(s):(std)**:** JAULIN PHILIPPE

Inventor(s): PHILIPPE JAULIN

Agent(s): NOVAGRAAF TECHNOLOGIES

International class (IPC 8–9)**:** B60J10/10 B60J10/12 B60J10/82 B60J10/90 (Advanced/Invention); B60J10/00 (Core/Invention)

CPC: B60J7/0084 B60J7/145 B60J10/90

European class: B60J10/10 B60J7/00G B60J7/14G2

Classification Explorer

Cited documents: US5135280 A, US4729596 A, GB1162627 A, EP1719653 A1, EP1422098 A1,

Forward Citations: US9636977, US2016089966,

Abstract:
The vehicle has a retractable roof including a rigid front roof element and a rear roof element with lateral parts movable with respect to a central part. A resistant fixed structure e.g. rear window frame, is placed between a boot and rear seats, and has an upper edge that is placed above a line of a body shell. A water collector is arranged in a junction area between the roof and the structure for collecting water from the roof when the roof covers a passenger compartment. A ring seal (16) is arranged between a mobile upper part (11A) and a fixed lower part (11B) of the collector.

0) US2008272617A – TRAILER WITH AERODYNAMIC REAR DOOR

79) Family number: 42459389 (US2008272617A) © PatBase

Title: TRAILER WITH AERODYNAMIC REAR DOOR

Priority: US20070927614P 20070504 US20070932245P 20070530 US20080115511 20080505 US20080070669P 20080325 US20080070670P 20080325 US20070933882P 20070608 US20080128809 20080529 US20080135541 20080609

Family:

Publication number	Publication date	Application number	Application date
US2008272617 AA	20081106	US20080115511	20080505
US2008296930 AA	20081204	US20080128809	20080529
US2008303311 AA	20081211	US20080135541	20080609
US7699382 BB	20100420	US20080115511	20080505
US7780224 BB	20100824	US20080135541	20080609
US7789453 BB	20100907	US20080128809	20080529

Probable Assignee: VANGUARD NATIONAL TRAILER CORP

Assignee(s):(std)**:** VANGUARD NAT TRAILER CORP

Assignee(s): VANGUARD NATIONAL TRAILER CORP

Inventor(s):(std)**:** WALLACE KEITH ; ROUSH MARK A

Agent(s): DOWELL BAKER PC

International class(IPC 8–9)**:** B60J5/06 B60J5/12 B62D35/00 B62D35/02 B62D37/02 (Advanced/Invention); B60J5/06 B62D35/00 B62D37/00 (Core/Invention)

CPC: B60J5/062 B60J5/125 B62D35/001 B60R19/565 B60S9/02

European class: B60J5/06B B60J5/12B B60S9/02 B62D35/00B L60R19/56B

US class: 280/763.1 293/117 296/180.1 296/180.4 296/186.2 296/186.200P 296/186.3 298/180.1 298/180.4

Classification Explorer

Cited documents: USD277840 S1, USD266158 S1, US824541 A, US7578541 BB, US7284788 BA, US7188875 BB, US7165804 BB, US7093889 BB, US7086674 BB, US7008005 BA, US6974178 BB, US6837536 BA, US6644720 BB, US6623234 BA, US6554047 BA, US6467833 BA, US6450556 BA, US6409194 BA, US6401887 BA, US6394513 BB, US6297486 BA, US6286894 BA, US6213540 BA, US6199942 BA, US6176529 BA, US6176529 B1, US6116667 A, US6109675 A, US609789 A, US6085878 A, US6076871 A, US6068329 A, US6000738 A, US5947538 A, US5947452 A, US5921617 A, US5839760 A, US5788321 A, US5735560 A, US5659926 A, US564027 A, US5542365 A, US5418257 A, US5384975 A, US5375882 A, US5280990 A, US5242185 A, US5236347 A, US5058756 A, US5052732 A, US5048863 A, US4991347 A, US495801 A, US4938524 A, US4929008 A, US4924780 A, US4886046 A, US4789117 A, US4785494 A, US4682808 A, US4668008 A, US4666130 A, US4657121 A, US4649831 A, US4640541 A, US4624074 A, US4486046 A, US4458936 A, US4437410 A, US4403804 A, US4379585 A, US4359239 A, US4321989 A, US4262953 A, US4257641 A, US4236745 A, US4214787 A, US4210354 A, US4142755 A, US4077330 A, US4060268 A, US4021069 A, US4008915 A, US4006932 A, US3999797 A, US3995563 A, US3960402 A, US3934922 A, US3934635 A, US3743343 A, US3415566 A, US3405778 A, US3118702 A, US2737411 A, US2569983 A, US2514695 A, US2008116702 AA, US2008093887 AA, US2005280282 AA, US2005146161 AA, US2005104390 AA, US2004056029 AA, US2002030384 AA, US2001024043 AA, US1922027 A, US1127241 A, SE5115804 A,

Forward Citations: WO16121847, WO13078275, WO11034535, WO10116155, USD746178, USD706686, USD705133, USD649090, US9776674, US9718502, US9688320, US9669883, US9616944, US9573636, US9545960, US9528232, US9493196, US9487171, US9463759, US9457847, US9457726, US9440689, US9440688, US9409610, US9409609, US9404231, US9352714, US9346496, US9296433, US9283998, US9283997, US9199676, US9199673, US9139240, US9132869, US9126638, US9056636, US9004575, US8985677, US8944490, US8919863, US8899660, US8876191, US8820817, US8801078, US8783758, US8783757, US8708398, US8684447, US8678474, US8678473, US8622462, US8622461, US8590961,

US8579361, US8579359, US8562022, US8491036, US8480162, US8449017, US8376450, US8366180, US8342595, US8322778, US8292351, US8287030, US8276972, US8272680, US8251436, US8191956, US8162384, US8025329, US7967349, US7950721, US7942471, US7942470, US7942469, US7942468, US7942467, US7938475, US7887120, US7857376, US7850224, US7845708, US7828368, US7806464, US7784854, US7748772, US7618086, US2016096557, US2015061318, US2014035316, US2012235441, US2012169086, US2012126572, US2012091754, US2011175396, US2011163570, US2011068605, US2010264691, US2010187856, US2010181799, US2010098481, US2010096883, US2010096882, US2010096881, US2010096880, US2009315297, US2009267365, US2009218848, US2009189414, US2009146453, US2008238139, US2008164722, JP5835857, GB2498810, GB2469559, GB2469559, GB2465600,

Abstract:
Source: US2008272617A An aerodynamic cargo container with rounded rear doors is disclosed. The aerodynamic cargo container includes an angled rear area that reduces base drag when the container is transported. The rear sliding door allows for partial opening of the door and allows for operation of the door when the rear of the container is in close proximity to another object. The crash attenuating skirt deflects vehicles away from the cargo container. A pair of cargo doors may define the curved contour of the trailer rear section. These doors may have a plurality of pivoted and segmented sections that assume the curved contour of a stationary edge when the doors are moved to a closed position.

0) US2011115261A – CONTOURED STRUCTURE CONNECTING A VEHICLE PANE T...

80) Family number: 43827084 (US2011115261A) © PatBase

Title: CONTOURED STRUCTURE CONNECTING A VEHICLE PANE TO A WATER DRAINING CHAMBER

Priority: DE200820006986U 20080523 EP20090005430 20090416 WO2009EP03143 20090430 US20100993876 20101217 US20130072832 20131106 EP20090749539 20090430

Family:

Publication number	Publication date	Application number	Application date
BRPI0913029 A2	20151013	BR2009PI13029	20090430
CN102036844 A	20110427	CN200980118734	20090430
CN102036844 B	20150909	CN200980118734	20090430
DE202008006986 U1	20091001	DE200820006986U	20080523
DE502009008266 D1	20140102	DE200950008266T	20090416
DE502009011103 D1	20150716	DE200950011103T	20090430
EP2123497 A1	20091125	EP20090005430	20090416
EP2123497 B1	20131106	EP20090005430	20090416
EP2285612 A1	20110223	EP20090749539	20090430
EP2285612 B1	20150603	EP20090749539	20090430
ES2438277 T3	20140116	ES20090005430T	20090416
ES2543000 T3	20150813	ES20090749539T	20090430
IN04176KN2010 A	20101231	IN2010KN04176	20101104
JP2011520694 T2	20110721	JP20110509871T	20090430
JP5614894 B2	20141029	JP20110509871T	20090430
MX2010012178 A1	20110125	MX20100012178	20090430
PT2123497 T	20131128	PT20090005430T	20090416
PT2285612 T	20151007	PT20090749539T	20090430
RU2010152622 A	20120627	RU20100152622	20090430
RU2481198 C2	20130510	RU20100152622	20090430
TR201508438 T4	20150821	TR20150008438T	20090430
US2011115261 AA	20110519	US20090993876	20090430
US2014062037 AA	20140306	US20130072832	20131106
US8628137 BB	20140114	US20090993876	20090430
US8991893 BB	20150331	US20130072832	20131106
WO09141049 A1	20091126	WO2009EP03143	20090430

Probable Assignee: ELKAMET KUNSTSTOFFTECHNIK GMBH

Assignee(s):(std)**:** EHL KAMET KUNSTSHTOFFTEKHNIK GMBKH ; ELKAMET KUNSTSTOFFTECHNIK ; ELKAMET KUNSTSTOFFTECHNIK GMBH ; ORTMUELLER MICHAEL ; PLATT WOLFGANG ; WELLER DANIEL

Inventor(s):(std)**:** DANIEL WELLER ; LLER MICHAEL ORTMA ; MICHAEL ORTMUELLER ; ORTMJULLER MIKHEL ; ORTMUELLER MICHAEL ; PLATT VOL FGANG ; PLATT WOLFGANG ; VELLER DANIEHL ; WELLER DANIEL ; WOLFGANG PLATT

Inventor(s): MICHAEL ORTMAœLLER ; VELLER DANIEHL' ; PLATT VOL'FGANG ; ORTMJULLER MIKHEL' ; MICHAEL ORTMA LLER

Agent(s): DREISS PATENTANWAELTE PARTG MBB; BUCHHOLD JUERGEN; DREISS; VALLEJO JUAN PEDRO; AKTEN OEZGUER; LEYDIG VOIT AND MAYER LTD; BUCHHOLD JUERGEN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV

SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/00 B60J1/02 B60J10/00 B60J10/02 E06B7/22 (Advanced/Invention); B60J10/02 E06B7/22 (Core/Invention)

International class (IPC 1–7): B60J10/02

CPC: B60J10/30 B60J10/32 B60J10/70 B60J10/02 B60J10/265

European class: B60J10/00D7B B60J10/00G B60J10/02

US class: 277/616 296/201 296/208 296/208P 296/84.1 296/93

Classification Explorer

Cited documents: WO06002891 A2, WO0188481 A1, US7806455 BB, US5396746 A, US3363364 A, US2007246966 AA, US2003057660 AA, SU1779228 D, RU1779228 C, JP8240213 A2, JP3068533 Y, JP3068533 U, JP2003532574 T2, JP2003341369 A2, FR2817302 A1, FR2739060 A1, EP1808322 A1, EP1724141 A1, EP1634753 A1, EP1571069 A1, EP1361098 A1, EP1240041 B1, EP0836961 A1, EP0644350 A1, EP0249660 A1, EP0249560 A1, EP0003968 A1, DE8617588 U, DE60202318 T2,

DE602004006432 T2

DE2801640 A1,

DE202005019203 U1

DE20008555 U1, DE20008555 U, DE19959602 A1, DE1480058 A1, DE1480058, DE10322637 A1,

DE102004030465 A1

DE10122637 A1, CN1429155, CA2008350 AA,

Forward Citations: WO17157726, WO16124868, WO15111322, WO15033202, WO15010764, WO14206782, WO14177329, WO14146902, WO14082745, WO14012621, WO13120671, WO13091919, WO13076513, WO12089309, WO11160324, US9713951, US9694659, US9688128, US9586465, US9399393, US9315216, US9259994, US9227498, US9168879, US9126635, US9073421, US9056544, US8393668, US8251432, US2016325787, US2016229278, US2016101675, US2016075221, US2015091332, US2013033071, US2011018303, RU2630944, KR20140119730, KR101789400, KR101677821, KR101651028, JP2016526501, JP2016516638, JP2016514644, JP2015506877, JP2015502291, JP2015205656, JP2015137051, JP2015051694, JP2015051653, GB2520380, GB2520380, FR3032414, EP3219529, EP3219525, EP3103665, EP3037292, EP2746081, EP2746081, DE202017104920, DE202017101894, DE202014106202, DE202013103871, DE202013103287, DE202012104621, DE202012102712, DE102016104848, DE102015121710, DE102014117232, DE102013221311, DE102013204820, DE102012112662, DE102011056955, DE102011056955, DE102010056495, CN106103159, CN105745142, CN105339199, CN105307886, CN105189164, CN105189164, CN104890483, CN104093584, CN104085282, CN104010853,

Abstract:
Source: US2011115261A A contoured structure (10) to connect a vehicle pane (40) to a water draining chamber (50) comprises a first segment (20) affixable to the vehicle pane and a second segment (30) fitted with or subtending a snap−in recess (60) serving to detachably install the water draining chamber (50). Said water draining chamber comprises a rib (51) which is frictionally and/or geometrically interlocking into said recess, furthermore at least one seal (90) that, in the installed position of said water draining chamber, subtends a substantially flat and flush transition between the surfaces of the vehicle pane (40) and of the water draining chamber (50). To assure that the water draining chamber can be installed both simply and quickly, without thereby stressing the connection between the contoured structure and the vehicle pane, the invention provides that at least one detent (70)−which is designed to facilitate inserting the rib (51) of the water draining chamber (50) into the snap−in recess (60) along a first direction (R1) while extracting the rib (51) out of said snap−in recess (60) in the opposite direction (R2) will encounter greater resistance.

0) US2011240074A – UMBRELLA FOR AUTOMOBILE

81) Family number: 49698162 (US2011240074A) © PatBase

Title: UMBRELLA FOR AUTOMOBILE

Priority: US20100751878 20100331 US20120434489 20120329

Family:

Publication number	Publication date	Application number	Application date
US2011240074 AA	20111006	US20100751878	20100331
US2012180836 AA	20120719	US20120434489	20120329
US8276607 BB	20121002	US20100751878	20100331
US8387640 BB	20130305	US20120434489	20120329
WO11126691 A2	20111013	WO2011US28718	20110316
WO11126691 A3	20120119	WO2011US28718	20110316
WO13148952 A1	20131003	WO2013US34282	20130328

Probable Assignee: KIM JONATHAN

Assignee(s):(std)**:** KIM JONATHAN

Inventor(s):(std)**:** KIM JONATHAN

Agent(s): PARK LAW FIRM; JOHN K; LEE CHOONGSEOP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A45B25/00 B60J1/20 B60J11/02 B60J5/00 B60J5/04 B60J9/00 E04H15/06 (Advanced/Invention)

CPC: A45B11/00 A45B19/00 A45B23/00 A45B2023/0025 A45B2023/0093 B60J5/0494

European class: A45B11/00 A45B19/00 A45B23/00 K45B23/00D K45B23/00Z

US class: 135/20.3 135/20.300P 135/88.07 135/88.09 135/88.090P 135/903 296/139 296/154

Classification Explorer

Cited documents: USD492640 S1, US8240323 BB, US7819458 BB, US7641259 BB, US7604281 BA, US6948766 BA, US6341811 BA, US6044856 A, US6006811 A, US5800004 A, US5725004 A, US5476302 A, US4807920 A, US4378888 A, US2426113 A, US2012060345 AA, US2011240074 AA, US2011010920 AA, US2010078960 AA, US2007241586 AA, US2003192581 AA, KR20120011152 A, KR19980011300 U, JP63207720 A2, JP3153872 U, JP3153872 B2, JP2000158948 A2,

Forward Citations: WO13148952, US9468273, US9403426, US9174586, US9090153, US8387640, US2012180836, CN104354577, CN104175845,

Abstract:
Source: US2011240074A A retractable umbrella includes a retractable tube, a pulling rod, a rainshade screen, and a drip water collector. The retractable tube comprises retractable reels, and it is attached on a door frame of a car. Each of the retractable reels is disposed in the retractable tube. The pulling rod is attached to a rim portion of the door accepting frame of the car. The rainshade screen comprises an outer edge, an inner edge, a front edge, and a rear edge. The outer edge is attached to the retractable reels of the retractable tube. The inner edge is attached to the pulling rod. The front edge connects front portions of the inner and outer edges. The rear edge connects rear portions of the inner and outer edges. The drip water collector collects water dripped from the rainshade screen, and is disposed at an inner portion of door of the car.

0) DE102012008033A1 – WINDSCREEN DEVICE FOR MOTOR VEHICLE I.E. PASSEN...

82) Family number: 52394262 (DE102012008033A1) © PatBase

Title: WINDSCREEN DEVICE FOR MOTOR VEHICLE I.E. PASSENGER CAR, HAS WINDSCREEN PROVIDED WITH HEATING DEVICE, AND ANTENNA ARRANGED IN PORTION FOR RECEIVING OR SENDING ELECTROMAGNETIC WAVES, WHERE WINDSCREEN IS RECESSED IN PORTION OF HEATING DEVICE

Priority: DE201210004199 20120301 DE201210008033 20120421

Family:

Publication number	Publication date	Application number	Application date
DE102012008033 A1	20121122	DE201210008033	20120421

Probable Assignee: DAIMLER AG

Assignee(s):(std)**:** DAIMLER AG

Inventor(s):(std)**:** BERNHARDT FRANK ; LOTTERER NORBERT

International class (IPC 8–9): B60J1/02 H01Q1/32 H05B3/84 (Advanced/Invention)

CPC: H01Q1/1271 H05B3/84 H05B2203/008

European class: H05B3/84 T05B203/008

Classification Explorer

Forward Citations: WO16096432,

Abstract:
The device (34) has a windscreen (36) provided with a heating device (64) i.e. wire heater, that heats the windscreen. The windscreen is recessed in a portion of the heating device. An antenna i.e. slot antenna, is arranged in the portion for receiving and/or sending electromagnetic waves. The heating device comprises a projection, which is arranged near to the antenna and/or near to a shell of a motor vehicle. The heating device comprises multiple heating regions, which are independent of one another. The heating device is partially designed as a metallic layer (38). An independent claim is also included for a rear window device for a motor vehicle.

0) EP2584864A1 – HEATABLE GLAZING PANEL BEHEIZBARE SCHEIBE PAN...

83) Family number: 53536391 (EP2584864A1) © PatBase

Title: HEATABLE GLAZING PANEL

Priority: DE201110054645 20111020

Family:

Publication number	Publication date	Application number	Application date
DE102011054645 A1	20130425	DE201110054645	20111020
EP2584864 A1	20130424	EP20120189393	20121022

Probable Assignee: BAEUMLER PETER

Assignee(s):(std)**:** BAEUMLER PETER

Inventor(s):(std)**:** BAEUMLER PETER

Agent(s): NAEVEN RALF

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8–9): B60J1/20 H05B3/84 H05B3/86 (Advanced/Invention)

CPC: H05B3/84 H05B2203/005 H05B2203/014 H05B2203/031

Classification Explorer

Cited documents: US4593175 A, US2007278200 AA, EP1605729 A2, EP0788295 A2, EP0112930 A1, DE4316575 C1, DE3904490 A1, DE3724014 A1, DE29606071 U1, DE2707008 A1,

DE202008017877 U1

DE102008018147 A1

DE102007008833 A1

DE102004060032 A1

Forward Citations: WO16000927, FR3042677,

Abstract:
The heatable panel has an upper panel (10) and a lower panel (9). The different polarity heating wires (8) are arranged in lower heating region (24) along lower panel edge below a main field (3) of view, and are arranged in upper heating region (23) along upper panel edge above the main field of view. The heating wires are not crossed to each other in upper heating region along main direction, and are parallel to edge of upper panel.

0) US2013098183A – MECHANICAL REDUCER CASE FORMING A GUIDE RAIL, S...

84) Family number: 53536570 (US2013098183A) © PatBase

Title: MECHANICAL REDUCER CASE FORMING A GUIDE RAIL, SYSTEM FOR DRIVING AN OPENING

Priority: FR20110059456 20111019

Family:

Publication number	Publication date	Application number	Application date
BR102012026810 A2	20140610	BR20121026810	20121019
CN103256375 A	20130821	CN201210401101	20121019
FR2981716 A1	20130426	FR20110059456	20111019
FR2981716 B1	20140808	FR20110059456	20111019
US2013098183 AA	20130425	US20120654616	20121018

Probable Assignee: INTEVA PRODUCTS LLC

Assignee(s):(std)**:** FEVER MICHAEL ; HEMOND STEPHANE ; INTEVA PRODUCTS FRANCE SAS ; ROBALO JEAN LOUIS ; LEFEVRE FRANCOIS

Assignee(s): INTEVA PRODUCTS LLC ; WELLS FARGO BANK NATIONAL ASSOCIATION ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS

Inventor(s):(std)**:** FEVER MICHAEL ; HEMOND STEPHANE ; LEFEVRE FRANCOIS ; ROBALO JEAN LOUIS

Inventor(s): STEPHANE HEMOND ; MICHAEL FEVER ; JEAN LOUIS ROBALO ; FRANCOIS LEFEVRE

Agent(s): CABINET HIRSCH AND PARTNERS

International class (IPC 8–9)**:** B29C45/00 B29C67/00 B60J1/17 E05F11/40 E05F15/16 F16H19/02 F16H57/00 F16H57/02 F16H57/023 F16H57/031 (Advanced/Invention)

CPC: E05Y2900/55 E05Y2201/684 E05Y2800/676 E05F15/689 E05F11/481 Y10T74/18568 Y10T74/2186

US class: 264/239 74/606R 74/89

Classification Explorer

Cited documents: WO11025815 A2, WO09022601 A1, WO06130954 A1, US8844198 BB, US6591707 BB, US6516493 BA, US6109124 A, US2010139428 AA, US2009293655 AA, US2007144281 AA, US2006019522 AA, US2003172755 AA, JP5065947 A2, JP4181047 A2, EP1101968 A1, DE19838347 A1,

DE102007014934 A1

CN1608339 A,

Forward Citations: US9677312, US2015191953, CN105960502,

Abstract:
Source: US2013098183A A mechanical reducer case for converting a motor torque into a drive torque for an opening is provided, the case forming a guide rail guiding the opening into a closed position or into an open position. Also disclosed is a motorized system for driving an opening including the preceding case and a method for manufacturing the preceding case including a half−shell.

0) DE102012206767A1 – WINDSCHUTZSCHEIBE FUER EINEN KRAFTWAGEN WINDSC...

85) Family number: 55033032 (DE102012206767A1) © PatBase

Title: WINDSCHUTZSCHEIBE FUER EINEN KRAFTWAGEN WINDSCREEN FOR MOTOR VEHICLE I.E. PASSENGER CAR, HAS LATERAL EDGE AREA WHOSE OUTER SIDE IS PROVIDED WITH INTERRUPTION STRUCTURE COMPRISING INTERRUPTION ELEMENT FORMING SURFACE STRUCTURE ELEMENT IN OUTER SIDE OF LATERAL EDGE AREA

Priority: DE201210206767 20120425

Family:

Publication number	Publication date	Application number	Application date
DE102012206767 A1	20131031	DE201210206767	20120425

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Inventor(s):(std)**:** OSWALD ROLAND ; SEITZ CHRISTIAN

International class (IPC 8–9): B60J1/02 B60R13/07 (Advanced/Invention)

CPC: B60J1/02 B60R13/07

Classification Explorer

Cited documents: DE9111308 U, DE4132249 A1, DE3642065 C2, DE3022416 A1, DE10025792 A1,

Forward Citations: US2016039391, DE102014202560,

Abstract:
Source: DE102012206767A1 Die Erfindung betrifft eine Windschutzscheibe (12) fuer einen Kraftwagen (10), mittels welcher eine korrespondierenden Scheibenoeffnung (14) eines Aufbaus (16) des Kraftwagens (10) wenigstens teilweise zu ueberdecken und ein Fahrgastraum des Kraftwagens (10) in Fahrzeuglaengsrichtung zumindest teilweise begrenzbar ist, wobei in wenigstens einem seitlichen Randbereich (18, 20) der Windschutzscheibe (12) auf ihrer Aussenseite (28) eine Stoerstruktur (46, 46a–f) mit wenigstens einem, ein Oberflaechenstrukturelement der Aussenseite (28) bildenden Stoerelement (48, 40) vorgesehen ist, sowie eine Anordnung einer Windschutzscheibe (12) an einem Halteelement eines Kraftwagens (10). The windscreen (12) has a lateral edge area (18) whose outer side (28) is provided with an interruption structure comprising an interruption element forming a surface structure element in the outer side of the lateral edge area. The interruption structure is arranged with an opaque visual cover element (22) i.e. bootleg, on the covering of the windscreen. The interruption element comprises a linear extension, and the interruption structure extends over majority of an extension of the windscreen in height direction of the windscreen.

0) US2013325265A – AUTOMATIC WATER SENSOR WINDOW OPENING SYSTEM

86) Family number: 55155962 (US2013325265A) © PatBase

Title: AUTOMATIC WATER SENSOR WINDOW OPENING SYSTEM

Priority: US20120645803P 20120511 US20130891588 20130510 WO2013IB01531 20130510 US20150931471 20151103

Family:

Publication number	Publication date	Application number	Application date
CA2872973 AA	20141107	CA20132872973	20130510
EP2847407 A2	20150318	EP20130788542	20130510
EP2847407 A4	20160106	EP20130788542	20130510
JP2015525159 T2	20150903	JP20150510890T	20130510
JP6211067 B2	20170922	JP20150510890T	20130510
JP6211067 B2	20171011	JP20150510890T	20130510
KR20150024832 A	20150309	KR20147034895	20130510
US2013325265 AA	20131205	US20130891588	20130510
US2016053523 AA	20160225	US20150931471	20151103
US9206637 BB	20151208	US20130891588	20130510
US9731579 BB	20170815	US20150931471	20151103
WO13167978 A2	20131114	WO2013IB01531	20130510
WO13167978 A3	20140109	WO2013IB01531	20130510

Probable Assignee: KING ABDULLAH UNIV OF SCIENCE AND TECH

Assignee(s):(std)**:** KING ABDULLAH UNIV OF SCIENCE AND TECH ; KING ABDULLAH UNIV OF SCIENCE AND TECHNOLOGY ; PERCHER MICHAEL ; UNIV SCIENCE AND TECHNOLOGY KING ABDULLAH ; UNIV KING ABDULLAH SCI AND TECH

Assignee(s): PERCHER MICHAEL105 – 35 MAYWOOD AVENUEPOINTE–CLAIREQ1H9R 5A6CA ; KING ABDULLAH UNIV OF SCIENCE AND TECHNOLOGY4700 KING ABDULLAHUNIVERSITY OF SCIENCE AND TECHNOLOGY23955–6900THUWALSA ; OF SCIENCE AND TECHNOLOGY KING ABDULLAH UNIV

Inventor(s):(std)**:** PERCHER MICHAEL

Inventor(s): PERCHER MICHAEL105 – 35 MAYWOOD AVENUEPOINTE–CLAIREQ1H9R 5A6CA

Agent(s): BORDEN LADNER GERVAIS LLP; CRAIG WILSON AND CO; ALCOCK DAVID; STEPTOE AND JOHNSON LLP; PATENT PORTFOLIO BUILDERS PLLC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/00 B60J1/08 B60J1/17 B60J10/00 B60R21/00 E05F15/20 E05F15/44 E05F15/665 E05F15/695 E05F15/71 E05F15/72 E06B7/14 E06B7/16 G06F17/00 G08B25/04 G08B25/08 G08B25/10 (Advanced/Invention)

International class (IPC 1–7): E05F15/20

CPC: E05F15/72 B60J1/00 E06B7/14 E06B7/16 B60J10/00 B60J1/17 E05Y2400/44 E05Y2800/428 E05Y2900/55 E05F15/695 G06F17/00

US class: 1/1 49/31 49/506 701/49

Classification Explorer

Cited documents: WO11122941 A1, WO11122941, US8073577 BB, US7861460 BA, US6975084 BB, US6690096 BB, US6588532 BA, US6588532, US6489739 BB, US6486630 BB, US6459168 BA, US6396227 BB, US6377169 BA, US6377009 BA, US6333685 BA, US6288506 BA, US6281647 BA, US2013146381 AA, US2013146381, US2011283619

AA, US2011267624 AA, US2011128543 AA, US2009187314 AA, US2007157720 AA, US2007152615 AA, US2006015232 AA, US2004160202 AA, US2003151864 AA, US2002070697 AA, US2002024309 AA, US2001024063 AA, US2001008369 AA, JP2000204843 A2, JP2000204843, JP2000034860 A2, JP10292731, EP2552720 A1, EP2552720, EP1053897 A2, EP1002678 A2, CN102933410 A, CN102933410, CA2379905 AA, CA2379905,

Forward Citations: US9800713, US8869927, US2013146381,

Abstract:
Source: US2013325265A A system can automatically open at least one window of a vehicle when the vehicle is being submerged in water. The system can include a water collector and a water sensor, and when the water sensor detects water in the water collector, at least one window of the vehicle opens.

0) KR20140116613A – A MANUFACTURING EQUIPMENT OF FLOCKING FILM FOR ...

87) Family number: 57518558 (KR20140116613A) © PatBase

Title: A MANUFACTURING EQUIPMENT OF FLOCKING FILM FOR DOORS WEATHER STRIP OF CAR

Priority: KR20130031363 20130325

Family:

Publication number	Publication date	Application number	Application date
KR20140116613 A	20141006	KR20130031363	20130325

Probable Assignee: KIM JONG WON

Assignee(s):(std)**:** KIM JONG WON

Inventor(s):(std)**:** KIM JONG WON

International class (IPC 8–9)**:** B60J10/08 B62D65/00 B62D65/06 B62D65/08 (Advanced/Invention)

CPC: B62D65/06 B29C65/48 B62D65/18 D06C11/00

Classification Explorer

Forward Citations: KR101560260,

Abstract:
Source: KR20140116613A The present invention relates to an apparatus for manufacturing a flocking film of a weather strip for a vehicle door. More specifically, the present invention relates to an apparatus for manufacturing a flocking film of a weather strip for a vehicle door which includes an uncoiler (1) uncoiling a synthetic resin film (B) coiled around a bobbin to continuously supply the synthetic resin film (B); a vacuum absorption conveyor (2) vacuumizing and absorbing the film continuously supplied from the uncoiler (1) to forcibly transfer the film; a glue applying device (3) applying glue (C) to one surface of the transferred synthetic resin film (B); a flocking machine (4) transplanting a nylon pile (D) on the synthetic resin film (B) to which the glue (C) is applied at one surface; a dehydration device (5) dehydrating the glue (C) on the synthetic resin film (B) on which the nylon pile (D) is transplanted; a brushing device (6) brushing and shaking off the nylon pile (D) not transplanted on a surface of the flocking film discharged after being dehydrated in the dehydration device (5) with a brushing roller (601) and using a dust collector (602) to collect the nylon pile (D); and a winding machine (7) winding the flocking film in which flocking is completed. The transfer speed and tension of the synthetic resin film is constantly maintained from a start to an end of the process of manufacturing a flocking film, so that the film is not stretched. The glue application and the flocking process are automatically performed, such that productivity of the flocking film is remarkably improved.

0) US2014352764A – ROOF PANEL HAVING SOLAR CELL

88) Family number: 57927031 (US2014352764A) © PatBase

Title: ROOF PANEL HAVING SOLAR CELL

Priority: KR20130064144 20130604

Family:

Publication number	Publication date	Application number	Application date
KR101509887 B1	20150407	KR20130064144	20130604
KR20140142797 A	20141215	KR20130064144	20130604
US2014352764 AA	20141204	US20130109129	20131217

Probable Assignee: HYUNDAI MOTOR CO

Assignee(s):(std)**:** HYUNDAI MOTOR CO LTD

Assignee(s): HYUNDAI MOTOR COMPANY ; HYUNDAI MOTOR CO

Inventor(s):(std)**:** JUNG HAE YOON ; KIM SANG HAK ; KIM WON JUNG ; LEE EUN YEONG ; LEE EUN YOUNG ; LEE JI YONG ; LEE KI CHUN ; PARK SUNG GEUN ; SONG MI YEON

International class (IPC 8–9): B60J7/00 B62D25/06 H01L31/042 H01L31/048 (Advanced/Invention)

CPC: Y02E10/50 B62D29/043 B32B17/06 B60J7/043 H01L31/049 Y02T10/90 B62D25/06

US class: 136/251

Classification Explorer

Cited documents: US6437235 BA, US5753571 A, US5149351 A, US4717790 A, US2012080065 AA, US2012031460 AA, US2012024692 AA, US2009114279 AA, US2003140961 AA, KR20130034996 A, KR20050105472 A, JP2009255882 A2,

Abstract:
Source: US2014352764A A roof panel for a vehicle that has a solar cell is provided. Specifically, a solar cell panel that has a plurality of solar cell modules electrically connected is disposed on an inner surface of an upper surface of a vehicle body and a sticking member that protects the solar cell panel from an impact while having sticking characteristics is inserted and laminated between the inner surface of the upper surface of the vehicle body and the solar cell panel.

0) US2016174295A – HEATABLE LAMINATED SIDE PANE

89) Family number: 58451875 (US2016174295A) © PatBase

Title: HEATABLE LAMINATED SIDE PANE

Priority: EP20130178680 20130731 EP20140725171 20140520 WO2014EP60314 20140520

Family:

Publication number	Publication date	Application number	Application date
CA2918636 AA	20160119	CA20142918636	20140520
CN105409324 A	20160316	CN201480042979	20140520
EA201690301 A1	20160630	EA20160090301	20140520
EP3028534 A1	20160608	EP20140725171	20140520
ID201705046 A	20170512	ID2016P0000653	20140520
IN201637001348 A	20160701	IN201637001348	20160114
JP2016532624 T2	20161020	JP20160530387T	20140520
KR20160035035 A	20160330	KR20167004792	20140520
MX2016001274 A1	20160407	MX20160001274	20140520
US2016174295 AA	20160616	US20140908480	20140520
WO15014511 A1	20150205	WO2014EP60314	20140520

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** SAINT GOBAIN ; SAINT GOBAIN GRASS FRANCE ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA ; SAINT GOBAIN GLASS FRANCE S A

Assignee(s): SAINT GOBAIN GLASS FRANCE SA ; SAINT GOBAIN GLASS FRANCE ; HERMANGE FRANCOIS ; KLEIN MARCEL

Inventor(s):(std)**:** HERMANGE FRANCOIS ; KLEIN MARCEL

Inventor(s): MARCEL KLEIN ; FRANCOIS HERMANGE

Agent(s): GOUDREAU GAGE DUBUC; GEBAUER DIETER EDMUND; PROF DR TOETI HERATY N ROOSSENO; LENDVAI TOMAS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B32B17/10 B60J1/00 C03C27/12 H05B3/14 H05B3/20 H05B3/36 H05B3/56 H05B3/84 H05B3/86 (Advanced/Invention)

CPC: B32B17/10192 H05B2203/005 H05B2203/011 H05B2203/013 H05B2203/017 H05B3/56 H05B3/84 H05B3/36 H05B3/86 B32B17/10036 B32B17/10183 B32B17/10229 B32B17/10761

US class: 219/203 219/522

Classification Explorer

Cited documents: WO10049431 A2, WO07039747 A1, US2878357 A, JP2012506808 T2,

DE102004029164 A1

CN102246590 A,

Forward Citations: WO17001792, FR3038249,

Abstract:
Source: US2016174295A A heatable laminated side pane is described. The heatable laminated side pane comprises at least an outer pane and an inner pane, which are connected to each other via a thermoplastic intermediate layer. An electrically conductive coating is arranged on the surface between the outer pane and the inner pane. The electrically conductive coating is divided into segments by isolation lines, wherein the coating has heating strips extending between a first current collector rail and a second current collector rail. Each collector rail

contains at least one segment, wherein the heating strips are electrically isolated from each other. At least one heating strip is formed by at least two segments, which are electrically connected to each other via at least one electrically conductive connector element, and the length of each individual heating strip deviates by a maximum of 15 percent from the average length of the heating strips.

0) US2016250912A – VERTICAL SEALING ARRANGEMENT BETWEEN DOORS WITH...

90) Family number: 60066164 (US2016250912A) © PatBase

Title: VERTICAL SEALING ARRANGEMENT BETWEEN DOORS WITHOUT SIDE PILLARS

Priority: BR20141002997 20140207 BR20141031763 20141218 WO2015BR00012 20150130
BR2014PI02997 20140207 BR2014PI03176 20141218 BR20141331763 20141218

Family:

Publication number	Publication date	Application number	Application date
AR103099 AA	20170419	AR2015P100349	20150206
BR102014002997 A2	20151208	BR20141002997	20140207
CA2927636 AA	20160415	CA20152927636	20150130
CN105899386 A	20160824	CN201580003569	20150130
CO16101181 A2	20170113	CO20160101181	20160421
EP3072722 A1	20160928	EP20150746675	20150130
EP3072722 A4	20170712	EP20150746675	20150130
IN201637013016 A	20160826	IN201637013016	20160413
JP2017505252 T2	20170216	JP20160523905T	20150130
KR20160119752 A	20161014	KR20167011375	20150130
MX2016009133 A1	20161013	MX20160009133	20150130
US2016250912 AA	20160901	US20150030482	20150130
WO15117211 A1	20150813	WO2015BR00012	20150130

Probable Assignee: FCA FIAT CHRYSLER AUTOMOVEIS BRASIL LTDA

Assignee(s):(std)**:** FCA FIAT CHRYSLER AUTOMOVEIS BRASIL LTDA ; FIAT AUTOMOVEIS S A

Assignee(s): FIAT AUTOMOVEIS SA ; PEREIRA MARCELO FERREIRA ; BICALHO GUILHERME FERREIRA SETTE ; BORGES FILHO AROLDO GASPAR ; DA SILVA ANDERSON SEIXAS MALTA

Inventor(s):(std)**:** ANDERSON SEIXAS MALTA DA SILVA ; AROLDO GASPAR BORGES FILHO ; BICALHO GUILHERME FERREIRA SETTE ; BORGES AROLDO GASPAR FILHO ; BORGES FILHO AROLDO GASPAR ; DA SILVA ANDERSON SEIXAS MALTA ; GUILHERME FERREIRA SETTE BICALHO ; MARCELO FERREIRA PEREIRA ; PEREIRA MARCELO FERREIRA ; SILVA ANDERSON SEIXAS MALTA DA

Agent(s): SARKIS MARCELO K; INES CONSUELO BENJUMEA RENDON; GERVASI GEMMA; OHNO SEIJI; ARIBONI FABBRI E SCHMIDT SOCIEDADE DE ADVOGADOS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** B60J10/00 B60J10/08 B60J10/15 B60J10/23 B60J10/235 B60J10/24 B60J10/248 B60J10/25 B60J10/32 B60J10/36 B60J10/80 B60J10/86 B60J5/00 B60R13/07 (Advanced/Invention)

CPC: B60J10/40 B60J10/248 B60J10/15 B60R13/07 B60Y2200/14 B60J10/25 B60J10/86 B60J10/23

US class: 296/154

Classification Explorer

Cited documents: WO04103749 A1, US6686020 BB, US6641205 BA, US5590926 A, US5527583 A, US4998946 A, US4492405 A, US2014223830 AA, US2013047519 AA, US2012023830 AA, US2010095599 AA, US2009070960 AA, US2007113482 AA, GB2398597 A1, EP1346864 A1, EP1031690 A1, DE4029091 A1, CN201712450 U,

Abstract:
Source: US2016250912A A vertical sealing arrangement to be used between doors of utility motor vehicles of

various types, such as pickups, trucks, SUVs, sedans, hatchbacks and the like with front and rear doors without the side pillar, the so−called B pillar, is formed by two mouldings, the top collector and the bottom discharger, which are interconnected by an extruded profile having at least one hollow longitudinal cavity the lumen of which interconnects−the inside volume of the collector to the inside volume of the discharger, thus defining a flow path for water and dust deposited on the upper part of the vehicle down to the lower part of the vehicle.

0) US2016169232A – PUMP AND CLEANING APPARATUS

91) Family number: 60942364 (US2016169232A) © PatBase

Title: PUMP AND CLEANING APPARATUS

Priority:

CN201410765091	20141211	CN201510262232	20150521	CN201510323868	20150612
CN201510324192	20150612	CN201510324166	20150612	CN201510323877	20150612
CN201520407204U	20150612	CN201520407230U	20150612	CN201510324202	20150612
CN201510326055	20150612	CN201510894215	20151207	CN201510507014	20150818
CN201510545984	20150828	CN201510739830	20151103	CN201520409224U	20150612
CN201520409223U	20150612	JP20150241966	20151211	JP20150241967	20151211
JP20150241969	20151211	JP20150241970	20151211	JP20150241968	20151211
JP20150241971	20151211	JP20150241965	20151211	CN201610217337	20160408
CN201610219185	20160408	CN201610538811	20160707	JP20160102426	20160523
JP20160102427	20160523	JP20160102428	20160523	JP20160160371	20160818
KR20150176980	20151211	KR20150176981	20151211	KR20150176985	20151211
KR20150176987	20151211	KR20150176990	20151211	KR20150176991	20151211
KR20150177074	20151211	KR20160061490	20160519	KR20160062190	20160520
KR20160062197	20160520	JP20160166693	20160818	KR20160103614	20160816
KR20160109285	20160826	JP20160167123	20160829	JP20160160372	20160818

Family:

Publication number	Publication date	Application number	Application date
BR102015030823 A2	20160823	BR20151030823	20151209
BR102015030891 A2	20160823	BR20151030891	20151210
BR102015030893 A2	20160823	BR20151030893	20151210
BR102015030895 A2	20160823	BR20151030895	20151210
BR102015030906 A2	20160614	BR20151030906	20151210
BR102015030908 A2	20160823	BR20151030908	20151210
BR102015030911 A2	20160906	BR20151030911	20151210
BR102016011420 A2	20161122	BR20161011420	20160519
BR102016011534 A2	20161122	BR20161011534	20160520
BR102016011535 A2	20161227	BR20161011535	20160520
BR102016017830 A2	20170307	BR20161017830	20160801
CN105697389 A	20160622	CN201510859264	20151130
CN105703495 A	20160622	CN201510894215	20151207
CN105703591 A	20160622	CN201610108530	20150612
CN105703592 A	20160622	CN201610109753	20151207
CN106169819 A	20161130	CN201610343006	20160520
CN106169852 A	20161130	CN201610217337	20160408
CN106169853 A	20161130	CN201610338889	20160519
CN106194764 A	20161207	CN201510323868	20150612
CN106208424 A	20161207	CN201510324192	20150612
CN106208455 A	20161207	CN201510323877	20150612
CN106208581 A	20161207	CN201510324166	20150612
CN106208582 A	20161207	CN201510324202	20150612
CN106466729 A	20170301	CN201610538811	20160707
CN106469966 A	20170301	CN201510739830	20151103
CN106487187 A	20170308	CN201610428352	20160615
CN204809997 U	20151125	CN201520407230U	20150612
CN204810016 U	20151125	CN201520409224U	20150612
CN204810095 U	20151125	CN201520407204U	20150612
CN204810096 U	20151125	CN201520409223U	20150612
CN205319910 U	20160615	CN201520872105U	20151103
CN205429899 U	20160803	CN201521008418U	20151207

CN205792128 U	20161207	CN201620468156U	20160519	
CN206153618 U	20170510	CN201620722175U	20160707	
DE102016109018 A1	20161124	DE201610109018	20160517	
DE102016109020 A1	20161124	DE201610109020	20160517	
DE102016109083 A1	20161124	DE201610109083	20160518	
DE102016113934 A1	20170223	DE201610113934	20160728	
DE202016104039 U1	20161208	DE201620104039U	20160725	
DE202016104041 U1	20161215	DE201620104041U	20160725	
EP3032705 A2	20160615	EP20150198533	20151208	
EP3032705 A3	20160727	EP20150198533	20151208	
EP3032706 A2	20160615	EP20150198539	20151208	
EP3032706 A3	20160727	EP20150198539	20151208	
EP3032719 A1	20160615	EP20150198535	20151208	
EP3032720 A2	20160615	EP20150275252	20151208	
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EP3032721 A2	20160615	EP20150198525	20151208	
EP3032721 A3	20160713	EP20150198525	20151208	
EP3032722 A2	20160615	EP20150198530	20151208	
EP3032722 A3	20160713	EP20150198530	20151208	
EP3032723 A2	20160615	EP20150198537	20151208	
EP3032723 A3	20160713	EP20150198537	20151208	
EP3133723 A1	20170222	EP20160178036	20160705	
EP3136562 A1	20170301	EP20160177530	20160701	
IN201634016616 A	20170224	IN201634016616	20160512	
IN201634016617 A	20161125	IN201634016617	20160512	
IN201634017403 A	20161125	IN201634017403	20160520	
IN201634021083 A	20170224	IN201634021083	20160620	
IN201634021119 A	20170303	IN201634021119	20160620	
JP2016116441 A2	20160623	JP20150241966	20151211	
JP2016116442 A2	20160623	JP20150241967	20151211	
JP2016116443 A2	20160623	JP20150241969	20151211	
JP2016116444 A2	20160623	JP20150241970	20151211	
JP2016128686 A2	20160714	JP20150241971	20151211	
JP2016129477 A2	20160714	JP20150241968	20151211	
JP2016146735 A2	20160812	JP20150241965	20151211	
JP2016220527 A2	20161222	JP20160102426	20160523	
JP2017022971 A2	20170126	JP20160102427	20160523	
JP2017022972 A2	20170126	JP20160102428	20160523	
JP2017042038 A2	20170223	JP20160160371	20160818	
JP2017046579 A2	20170302	JP20160167123	20160829	
JP2017094483 A2	20170601	JP20160160372	20160818	
JP3207419 U	20161110	JP20160004195U	20160829	
JP3208939 U	20170302	JP20160004292U	20160902	
KR20160071345 A	20160621	KR20150176980	20151211	
KR20160071346 A	20160621	KR20150176981	20151211	
KR20160071347 A	20160621	KR20150176985	20151211	
KR20160071348 A	20160621	KR20150176987	20151211	
KR20160071349 A	20160621	KR20150176990	20151211	
KR20160071350 A	20160621	KR20150176991	20151211	
KR20160071351 A	20160621	KR20150177074	20151211	

KR20160137406 A	20161130	KR20160061490	20160519	
KR20160137434 A	20161130	KR20160062190	20160520	
KR20160137436 A	20161130	KR20160062197	20160520	
KR20170021749 A	20170228	KR20160103614	20160816	
KR20170026253 A	20170308	KR20160109285	20160826	
MX2015017013 A1	20160610	MX20150017013	20151210	
MX2015017014 A1	20160610	MX20150017014	20151210	
MX2015017015 A1	20160610	MX20150017015	20151210	
MX2015017016 A1	20160610	MX20150017016	20151210	
MX2015017017 A1	20160610	MX20150017017	20151210	
MX2015017018 A1	20160610	MX20150017018	20151210	
MX2015017019 A1	20160610	MX20150017019	20151210	
MX2016006402 A1	20161121	MX20160006402	20160516	
MX2016006404 A1	20170330	MX20160006404	20160516	
MX2016006569 A1	20170109	MX20160006569	20160519	
MX2016010508 A1	20170629	MX20160010508	20160812	
TWM540428 Y	20170421	TW20160212584U	20160818	
US2016169232 AA	20160616	US20150965425	20151210	
US2016169248 AA	20160616	US20150965405	20151210	
US2016172908 AA	20160616	US20150965529	20151210	
US2016172909 AA	20160616	US20150965605	20151210	
US2016172914 AA	20160616	US20150965426	20151210	
US2016172920 AA	20160616	US20150965357	20151210	
US2016172948 AA	20160616	US20150965303	20151210	
US2016341219 AA	20161124	US20160160225	20160520	
US2016344244 AA	20161124	US20160160494	20160520	
US2016344271 AA	20161124	US20160160174	20160520	
US2017054352 AA	20170223	US20160240185	20160818	
US2017054353 AA	20170223	US20160240343	20160818	
US2017055669 AA	20170302	US20160246994	20160825	

Probable Assignee: JOHNSON ELECTRIC SA

Assignee(s):(std)**:** JOHNSON ELECTRIC S A ; JOHNSON ELECTRIC SA ; JOHNSON ELECTRIC SHENZHEN CO ; JOHNSON ELECTRIC SHENZHEN CO LTD

Assignee(s): JOHNSON ELECTRIC SHENZHEN LTD

Inventor(s):(std)**:** CHAI JIE ; CHEN MING ; CHU DUNJIE ; CHU JUN JIE ; FU ZHI PING ; FU ZHIPING ; GUI LIN PING ; GUI LINPING ; HONG LIANG YI ; KWONG YIP POON ; LI GANG ; LI QIU MEI ; LI QIUMEI ; LI WEN LIANG ; LI WENLIANG ; LI YONG ; LIN PING GUI ; LIU BAO TING ; LU MING ; PAN GUANGYE ; POON KWONG YIP ; QIANG ZHOU ; REDDY MOOLA MALLIKARJUNA ; RI WEN RIAN ; TA JING NING ; TA JINGNING ; TAO JAN ; WEI CHANG ; WEN LIANG LI ; XIAO BING ZUO ; YI HONG LIANG ; YI HONGLIANG ; YON LEE ; ZHANG TAO ; ZHANG XIAO LIN ; ZHENG MING ; ZHOU CHUI YOU ; ZHOU QIANG ; ZUO XIAO BING ; ZUO XIAOBING ; ZHOU CHUIYOU ; ZHANG WEI ; YUE LI ; YONG WANG ; YONG LI ; WEI ZHANG ; WANG YONG ; TAO ZHANG ; MOOLA MALLIKARJUNA REDDY ; MING CHEN ; LIU BAOTING ; LI YUE ; JUN JIE CHU ; JIE CHAI ; GANG LI ; CHUI YOU ZHOU ; ZHANG XIAOLIN ; REDDY MALIK ; LI MIN

Inventor(s): MIN LI ; XIAO LIN ZHANG ; BAO TING LIU ; ZHI PING FU

Agent(s): HOCKING ADRIAN NIALL; NISHIJIMA TAKAKI; OHTSUKA FUMIAKI; SUDA HIROYUKI; KONDO NAOKI; UESUGI HIROSHI; DESHIMARU TAKESHI

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class(IPC 8–9)**:** A45D20/00 A45D20/08 A45D20/10 A45D20/12 A47K10/48 A47L15/42 A47L5/12 A47L9/00 A47L9/18 B23B45/00 B23B45/02 B23Q5/04 B25F5/00 B60J1/20 D06F39/08 E05F15/689 E05F15/697 F04B17/03 F04B49/06 F04D1/00 F04D13/06 F04D17/10 F04D17/16

F04D25/06 F04D25/08 F04D29/00 F04D29/043 F04D29/046 F04D29/056 F04D29/08 F04D29/22 F04D29/24 F04D29/28 F04D29/42 F04D29/44 F04D29/60 F04D29/62 F04D29/66 F04D9/02 H01F7/122 H02K1/06 H02K1/08 H02K1/12 H02K1/14 H02K1/16 H02K1/17 H02K1/18 H02K1/22 H02K1/26 H02K1/27 H02K1/28 H02K11/00 H02K11/21 H02K11/33 H02K17/04 H02K19/04 H02K21/00 H02K21/02 H02K21/12 H02K21/14 H02K21/16 H02K21/18 H02K21/22 H02K29/00 H02K29/03 H02K29/06 H02K29/08 H02K3/12 H02K3/18 H02K3/28 H02K3/34 H02K3/38 H02K3/46 H02K3/48 H02K3/50 H02K3/52 H02K44/00 H02K47/16 H02K5/04 H02K5/16 H02K5/167 H02K5/24 H02K7/14 H02K9/02 H02P27/02 H02P6/08 (Advanced/Invention);
H02K21/16 (Advanced/Non–invention);
B25F5/00 F04D1/00 (Core/Invention)

CPC: F04D1/00 F04D29/628 F04D13/0693 F04D29/22 F04D29/426 A47L15/4225 D06F39/085 F04D29/043 H02K1/278 H02K1/28 F04D17/10 F04D25/06 H02K17/04 H02K1/185 H02K9/02 H02K5/04 H02K3/524 H02K21/185 H02K21/225 H02K1/16 H02K1/27 H02K29/00 F04B49/06 H02K11/00 H02K3/48 F04B17/03 H02K3/34 F04D29/056 F04D29/08 F04D29/242 H02P27/02 H02K21/14 H02K2213/03 H02K7/14 H02K11/33 H02K1/143 H02K29/03 H02K1/141 F04D13/0626 F05D2260/85 F04D29/4293 F04D13/06 F04D13/064 F04D29/2255 F05D2300/43 F04D29/661 F04D17/16 F04D29/281 F04D29/441 F04D29/4226 A47K10/48 H02K1/276 H02K21/025 B60J1/20 E05F15/689 A45D20/08 A47L9/185 H02K2201/03 A45D20/00 H02P1/465 H02K21/16 A47L9/0081 H02K3/18 H02K1/26 A45D20/10 A47L9/2842 H02K5/24 E05F15/697 A45D20/12 H02K1/145 H02K3/12 H02K1/14 H02K1/148 H02K1/2706 H02K19/04 H02K1/146 H02K1/12 H02K1/22 H02K5/1675 H02K29/08 F04D13/0606 H02K21/12 H02K1/2766 H02K21/02 H02K2201/06 B25F5/00 B23B45/02 H02K21/00

US class: 134/186 310/156.01 310/156.11 310/156.21 310/172 310/216.074 310/216.094 310/50 310/59 310/68R 310/71 34/97 417/423.1 417/423.14 417/423.7 68/208

Classification Explorer

Cited documents: WO9624187 A1, WO14183408 A1, WO03021753 A1, WO0145235 A1, US6940205 BA, US6045340 A, US5934298 A, US5767606 A, US5675226 A, US5530343 A, US5373206 A, US3009748 A, US2792510 A, US2015042194 AA, US2014030121 AA, US2013183155 AA, US2013088114 AA, US2013071247 AA, US2012119627 AA, US2011221562 AA, US2009021094 AA, US2007145851 AA, US2007052318 AA, US2006197478 AA, US2006145559 AA, US2006082240 AA, US2005274158 AA, US2005111992 AA, JP61022743 A2, JP60026447 A2, JP55036973 A2, JP49079701 U1, JP11018325 A2, GB2181307 A1, GB2177456 A1, GB1456809 A, EP2731233 A2, EP2000675 A2, EP1942575 A2, EP1261101 A2, EP1139548 A2, EP1103202 A1, EP1052764 A1, EP0633648 A1, DE2360411 A1, DE2360402 A1, CN2705636 Y, CN203892243 U, CN202954989 U, CN104124849 A, CN101865157 A, CN101222198 A,

Forward Citations: US2017170760,

Abstract:
Source: US2016169232A A pump and a cleaning apparatus are provided. The pump includes a pump housing having a pump chamber, an inlet and an outlet in communication with the pump chamber, a motor, and an impeller. The motor includes a stator and a rotor. The impeller is fixedly connected to the shaft so as to always synchronously rotate along with the rotary shaft. The stator windings drag the rotor to rotate only in a fixed starting direction during a starting phase of the motor.

0) US2016368350A – DEVICE AND SYSTEM FOR PROVIDING A WIND CURTAIN ...

92) Family number: 64429725 (US2016368350A) © PatBase

Title: DEVICE AND SYSTEM FOR PROVIDING A WIND CURTAIN FOR PREVENTING BUGS FROM CONTACTING A VIEWING SURFACE

Priority: US20150742005 20150617

Family:

Publication number	Publication date	Application number	Application date
US2016368350 AA	20161222	US20150742005	20150617
WO16205501 A1	20161222	WO2016US37855	20160616

Probable Assignee: WIND SURFACE PRO LLC

Assignee(s):(std)**:** WIND SURFACE PRO LLC

Inventor(s):(std)**:** ALBANO JERRY ; ATHMER MICHAEL

Agent(s): ZELNER DAVID J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A01M29/00 B60J1/20 B60S1/54 (Advanced/Invention)

CPC: B60J1/2094 B60J1/2002 A01M29/00 B60S1/54

US class: 296/91

Classification Explorer

Cited documents: US3214215 A, US2006152031 AA, LU46116 A, GB194183 A,

Abstract:
Source: US2016368350A The present invention is directed to a device and system designed to prevent organisms, such as bugs, from contacting a viewing surface, such as a windshield or window associated with a moving vehicle. The device contains at least a first side wall having an air intake member constructed to receive and capture air flow generated by movement of the motor vehicle. A second wall contains air distribution members and is oriented in a different direction as that of the first wall. Because the device is designed to have side walls oriented at different directions, air exiting the device travels in a different path than the path of entry. In this manner, air flow can be directed to travel across a viewing surface, thereby providing a curtain of air thereupon.

0) WO17042508A1 – LUMINOUS GLAZING UNIT FOR A VEHICLE AND THE MAN...

93) Family number: 65174778 (WO17042508A1) © PatBase

Title: LUMINOUS GLAZING UNIT FOR A VEHICLE AND THE MANUFACTURE THEREOF

Priority: FR20150058499 20150911 WO2016FR52271 20160909

Family:

Publication number	Publication date	Application number	Application date
CN107074148 A	20170818	CN201680002124	20160909
FR3040992 A1	20170317	FR20150058499	20150911
FR3040992 B1	20171006	FR20150058499	20150911
WO17042508 A1	20170316	WO2016FR52271	20160909

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN LINAK AS

Inventor(s):(std)**:** LALUET JEAN YVES ; CHEVALIER DELPHINE ; BROCHIER CEDRIC ; BAUERLE PASCAL ; ARTZNER EMMANUELLE

Inventor(s): CEDRIC BROCHIER ; DELPHINE CHEVALIER ; EMMANUELLE ARTZNER ; JEAN YVES LALUET ; PASCAL BAUERLE

Agent(s): SAINT GOBAIN RECHERCHE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** B32B15/04 B32B15/14 B32B17/06 B32B17/10 B32B33/00 B60J1/00 B60Q3/00 B60Q3/02 B60Q3/208 B62D25/06 C03C4/00 (Advanced/Invention)

CPC: B32B17/10036 B32B17/067 B32B17/10174 B32B17/10541 B32B17/10761 B32B17/10788 B32B2605/08 B60Q3/208 B62D25/06

Classification Explorer

Cited documents: WO14009630 A1, WO12098330 A1, WO08062141 A2,

Abstract:
The invention relates to luminous glazing unit (200) for a vehicle, in particular a road vehicle, having a laminated glazing unit and a first light source at the periphery of the glazing unit, a luminous woven textile comprising warp yarns, weft yarns and optical fibres, the optical fibres being capable of emitting light sideways, the optical fibres protruding from a first edge surface of the laminated glazing unit, and the light source being connected to the first free ends of the optical fibres. The woven textile has openings between the warp yarns, the weft yarns and the optical fibres, allows a fraction of the solar radiation to pass through via the openings and has a clarity C of at least 75 percent. The luminous woven textile is in optical contact with the faces F2 and F3 of the glass panes of the laminated glazing unit.

- **search:** SS4 FT=((Seal* or strip) and (car or vehicle) and ((no or without) W5 pillar)) and IC=B60J (Results 178)
- List: SS4 1–25 (FT=((Seal* or strip) and (car or vehicle) and ((no or without) W5 pillar)) and IC=B60J) (Results 178)

0) GB247781A – IMPROVEMENTS RELATING TO ANTI–DAZZLE SCREENS OR...

1) Family number: 18212078 (GB247781A) © PatBase

Title: Improvements relating to anti–dazzle screens or attachments for the use of vehicle drivers

Priority: GB19250009546 19250409

Family:

Publication number	Publication date	Application number	Application date
GB247781 A	19260225	GB19250009546	19250409

Probable Assignee: FREDERICK SHIRLEY CORFIELD

Assignee(s):(std)**:** FREDERICK SHIRLEY CORFIELD

International class (IPC 8–9)**:** B60J3/02 (Advanced/Invention); B60J3/02 (Core/Invention)

International class (IPC 1–7)**:** B60J3/02

CPC: B60J3/02

European class: B60J3/02

Classification Explorer

Forward Citations: US4765675, GB2189445, GB2189445,

Abstract:
Source: GB247781A Anti–dazzle screens for drivers.An anti–dazzle screen for protecting the driver of a vehicle comprises a relatively narrow slip blind mounted on the wind–screen in such a manner that it may, against the power of a spring, be slowly drawn down the screen so as contilnuously to interrupt the relatively moving glare, while at the same time allowing the driver a sufficient view of the road. In the construction shown the blind t is carried by a ball–bearing runner–block k slidable vertically within a vertical tube b and operated against the action of a spring l by the pull on a Bowden cable n connected through a sheath o with a. finger on the steering–wheel. The blind shown consists of three metallic leaves u, v, w having interposed leaf springs 8, z and connected by pins 10 and slots 11 so that the blind is extended to its full width when pulled downwardly, the lowest member u being carried by the block k and made of channel section so as to receive the other members v, w when the blind is in its uppermost or collapsed position. An horizontal bracket d formed integral with the tube b serves for attaching the blind to the upper edge of and either in front of or behind the wind–screen a, the former position being adopted when a screen–wiping flap x is attached to the member u. An additional guide 12 may be arranged at the free edges of the leaves of the blind. The blind may alternatively consist of a single fabric strip adapted to wind by tapes upon a spring roller.

0) GB261307A – IMPROVEMENTS IN WINDSCREENS FOR VEHICLES

2) Family number: 18286625 (GB261307A) © PatBase

Title: IMPROVEMENTS IN WINDSCREENS FOR VEHICLES

Priority: GB19260017114 19260708

Family:

Publication number	Publication date	Application number	Application date
GB261307 A	19261118	GB19260017114	19260708

Probable Assignee: EDWARD AXELSON HELLSTRAND

Assignee(s):(std)**:** EDWARD AXELSON HELLSTRAND

International class (IPC 8–9)**:** B60J10/02 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/04

CPC: B60J10/70

European class: B60J10/02

Classification Explorer

Forward Citations: US5907469,

Abstract:
Source: GB261307A 261,307. Hellstrand, E. A. July 8, 1926. Windscreens.–In order to prevent strains due to the lateral rocking of the supporting pillars of a vehicle wind–screen being transmitted to the screen itself and to avoid the provision of a heavy screen frame which would increase the obstruction to the driver's view caused bv the pillars, the screen 4 is pivoted directly to the upper ends of the pillars 2 so as to lie in a plane in advance of the pillars with the vertical members of the screen frame 7 situated immediately in front of the pillars. Preferably, the screen pivot is constituted by a transverse rod 6 extending between forwardly projecting lugs 3 on the upper ends of the pillars. The screen frame 7 is of light construction and is surrounded on its lower and vertical edges with a single or separate draught excluding strips 10, 12 co–operating with the scuttle 9 and pillars 2 respectively. An additional rubber or like strip 8 is arranged on the scuttle to contact with the inner side of the screen frame. When the screen comprises two panels arranged to form a V, draught excluding strips are also provided at the junction of the meeting vertical edges, and an additional central supporting pillar may also be incorporated. The side panels 13 are attached to the pillars 2 by means of tubular hinge members 20, Fig. 5, having flanges 21 to which the side screen frames 19 may be detachably bolted. In addition to or instead of the bolts 22 and flanges 21 the edges of the screen frames may be provided with dovetails 23 engaging corresponding grooves 24 in the hinge members 20, thus allowing the screens to be removed by a vertical sliding movement relative to the pillars.

0) US1711010A – CONVERTIBLE BODY

3) Family number: 19911195 (US1711010A) © PatBase

Title: CONVERTIBLE BODY

Priority: US19240750356 19241117

Family:

Publication number	Publication date	Application number	Application date
US1711010 A	19290430	US19240750356	19241117

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** ROSCOE BERINGER

Inventor(s): BERINGER ROSCOE

International class (IPC 8–9)**:** B60J1/08 (Advanced/Invention); B60J1/08 (Core/Invention)

International class (IPC 1–7)**:** B60P3/42

CPC: B60J1/085

European class: B60J1/08B

US class: 296/139 296/148 296/149 49/166

Classification Explorer

Forward Citations: US4716682,

Abstract:
Source: US1711010A 1. A vehicle door having sockets at its iippei' edge, a panel lislving siipportiin; posts vxtezidiiigg into the esoclrets. a ifockslieft having; cams IIIfl3TSC(’–llllllg the sockets to grip the posts, and means for rocking the shaft.

0) GB310626A – IMPROVEMENTS IN OR RELATING TO BODIES FOR MOTOR...

4) Family number: 18633024 (GB310626A) © PatBase

Title: Improvements in or relating to bodies for motor vehicles

Priority: GB19280008801 19280323

Family:

Publication number	Publication date	Application number	Application date
GB310626 A	19290502	GB19280008801	19280323

Probable Assignee: LEONARD THOMAS TAYLOR

Assignee(s):(std)**:** LEONARD THOMAS TAYLOR

International class (IPC 8–9)**:** B60J5/06 (Advanced/Invention); B60J5/06 (Core/Invention)

International class (IPC 1–7)**:** B60J5/06 B62D31/00

CPC: B60J5/06

European class: B60J5/06

Classification Explorer

Forward Citations: US2548950, US2459502, EP0504767, DE1236352, DE1148460, DE1140092,

Abstract:
Source: GB310626A Doors for passenger vehicles.–Sliding doors for giving free access at one or both sides to the seats of a motor vehicle are supported along their upper and lower edges in guides carried by the sides of the body so as to slide forwardly substantially in the planes of these sides. In the construction shown the doors a of a saloon car are adapted to slide forwardly into the spaces between the bonnet and side wings, and are provided along their upper edges with T–headed rails d sliding in slots in guide channels e secured to the body cantrail and along their lower edges with rails f fitted with rollers h running in channels g. The doors and guides may either be plane or, as shown, of a uniform slight curvature. In their closed positions, watertight joints are maintained by means of strips j on the front edges of the doors co–operating with recesses on the front pillars k, while the near edges of the doors are stepped at l to engage complementary steps m on the body frame. In the case of a touring car, each upper guide consists of a channel member extending rearwardly and horizontally from the windscreen to a point above the front edge of the rear seats, whence it is carried down to the chassis.

0) GB332725A – VEHICLE BODIES

5) Family number: 18685079 (GB332725A) © PatBase

Title: Vehicle bodies

Priority: GB19290021047 19290709

Family:

Publication number	Publication date	Application number	Application date
GB332725 A	19300731	GB19290021047	19290709

Probable Assignee: JAMES DIXON KILSHAW

Assignee(s):(std)**:** JAMES DIXON KILSHAW

International class (IPC 8–9)**:** B60J5/04 (Advanced/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: B60J5/0479

European class: B60J5/04H5B

Classification Explorer

Abstract:
Source: GB332725A 332,725. Kilshaw, J. D. July 9, 1929. Doors for passenger vehicles.–In a road vehicle body of the type having two doors 2, 3 on the same side hinged at their remote edges 4, 5 and interconnected for movement in unison, their other edges 8, 9 abutting when closed, the connecting–means comprises linkwork resiliently connected to one of the doors. In one form a slidable link 16 is pivoted at its ends to links 12, 19, the link 12 being hinged to the door 2 and the link 19 pivoted at 18 to a C–shaped spring 22 fixed to the door 3. With closed bodies the links 12, 19 are situated in recesses 13, 20 in the tops of the doors while the link 16 slides in a. recess on the roof cantrail. A single handle 24 actuates means to lock both doors. In a modification a single link may be employed directly connecting the front door and the spring 22.

0) GB339004A – IMPROVEMENTS IN OR RELATING TO WIND–SCREENS FOR...

6) Family number: 18785584 (GB339004A) © PatBase

Title: Improvements in or relating to wind–screens for motor vehicles

Priority: GB19290027447 19290910

Family:

Publication number	Publication date	Application number	Application date
GB339004 A	19301204	GB19290027447	19290910

Probable Assignee: PERFECTA MOTOR EQUIPMENTS LTD

Assignee(s):(std): PERFECTA MOTOR EQUIPMENTS LTD ; VICTOR HARRY PINSON

Assignee(s): PERFECTA MOTOR EQUIPMENTS LIMITED

International class (IPC 8–9): E05C17/30 (Advanced/Invention); E05C17/00 (Core/Invention)

International class (IPC 1–7): B60J1/04

CPC: E05C17/30

European class: E05C17/30

Classification Explorer

Abstract:
Source: GB339004A Stays.–An additional stay for a windscreen by which the screen is held slightly open or is drawn tightly closed, comprises a pivoted member which is adapted to be clamped either by its tail k or around its recess j by a clamping–nut g of a telescopic stay c, e. The clamp comprises a screwed stud f, which projects from the arm c through a slot in the arm e, and a shouldered washer h which is adapted to fit the recess j. The pivoted member is provided with a. stop n behind which a spring may be adapted to snap.

0) US1847558A – DOORCHECK

7) Family number: 19786943 (US1847558A) © PatBase

Title:	DOORCHECK
Priority:	US19290403310 19291029

Family:

Publication number	Publication date	Application number	Application date
US1847558 A	19320301	US19290403310	19291029

Probable Assignee:	WILLYS OVERLAND CO
Assignee(s):(std):	WILLYS OVERLAND CO
Assignee(s):	THE WILLYS OVERLAND COMPANY
Inventor(s):(std):	GRIMM GEORGE E
International class (IPC 8–9):	E05C17/20 (Advanced/Invention); E05C17/00 (Core/Invention)
International class (IPC 1–7):	B60J5/00
CPC:	E05C17/20 Y10T16/61
European class:	E05C17/20
US class:	16/82

Classification Explorer

Abstract:
Source: US1847558A 1. A combination with a vehicle body pil~ lar and a door~pillar hinged thereto arranged to have their inner surfaces substantially aligned when in their normal position; of u door check comprising a substantially inflexible strap mounted on one of said pillars and hinged to the other; a plate secured to the door–pillar for guiding said strap, said strap having a bent–up portion adjacent its free end acting as a movement limiting means for said door–pillar; and resilient means interposed between the strap and doorpillar for constantly urging the strap into Contact with the plate.

0) GB406613A – IMPROVEMENTS IN OR RELATING TO VEHICLE BODIES

8) Family number: 19717175 (GB406613A) © PatBase

Title: IMPROVEMENTS IN OR RELATING TO VEHICLE BODIES

Priority: GB19330028325 19331013

Family:

Publication number	Publication date	Application number	Application date
GB406613 A	19340301	GB19330028325	19331013

Probable Assignee: AMBI BUDD PRESSWERK GMBH

Assignee(s):(std)**:** AMBI BUDD PRESSWERK GMBH

Assignee(s): AMBI BUDD PRESSWERK G M B H

International class (IPC 8–9)**:** E05C9/04 (Advanced/Invention); E05C9/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: E05C9/043

European class: E05C9/04

Classification Explorer

Forward Citations: US3034826, US2895763, FR2513298,

Abstract:
Source: GB406613A 406,613. Door fastenings. PRESSED STEEL CO. OF GREAT BRITAIN, Ltd., Cowley, Oxford.–(Ambi–Budd Presswerk Ges.; Johanisthal, Berlin.) Oct. 13, 1933, No. 28325. [Class 44.] In saloon vehicles having two doors at each side adapted to close towards one another without an intervening pillar and provided with lock mechanism adapted to engage the upper and lower horizontal frame members of the vehicle the adjacent edges of the doors are provided with means whereby the doors are held tightly against one another in the closed position. The doors 11, 12 are hinged at their remote edges and meet without intervening pillar. The door 11 comprises rails 18–21 with inner and outer panels and the door 12 is similarly constructed, while the adjacent rails 20, 24 are provided with off–set portions 27, 31 in which are mounted tightening strips 28, 32 of rubber. The locking arrangements comprise pivoted latches at the upper and lower parts of each door engaging the cant rail and the sill. The upper latch 36 which is spring–pressed engages a striking plate having a rack 41, while the lower latch 37, engaging by gravity, projects through the outer face of the sill 46 and engages a striking plate 49. The latches are linked by links 42, 50 to sliding plates 45, 52, Fig. 4, having pin and slot connection to a two–armed lever 53 mounted on the spindle 54 which also carries an arm 55 connected to the inner handle and a member 56 connected to the outer handle. A dog 60 with spring 59 engages a shoulder 61 to prevent disengagement of the locks, the dog 60 being withdrawn when necessary by means of a rotary member 62 operated from inside the door.

0) GB419740A – IMPROVEMENTS IN AND RELATING TO SLIDING WINDOWS...

9) Family number: 20224464 (GB419740A) © PatBase

Title: IMPROVEMENTS IN AND RELATING TO SLIDING WINDOWS FOR MOTOR OR OTHER VEHICLES

Priority: GB19330014414 19330518

Family:

Publication number	Publication date	Application number	Application date
GB419740 A	19341119	GB19330014414	19330518

Probable Assignee: MARTIN WALTER LTD

Assignee(s):(std): ERNEST METCALFE ; MARTIN WALTER LTD

Assignee(s): MARTIN WALTER LIMITED

International class (IPC 8–9): B60J10/04 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J1/17

CPC: B60J10/74

European class: B60J10/04

Classification Explorer

Forward Citations: US2938245, US2797958,

Abstract:
Source: GB419740A 419,740. Vehicle windows; frames; preventing rattle. METCALFE, E., 44, Alder Road, and WALTER, Ltd., M., 145, Sandgate Road, both in Folkestone, Kent. May 18, 1933, No. 14414. [Class 20 (iii).] Pairs of sliding vehicle windows are adapted to move in inclined guides 1, 2 in the vehicle doors or body so that the vertical edges 9 of the panels may engage when raised. A rubber or other bead may be provided on the meeting edge of one panel and the inclined extensions of the panel frame may have rollers 11 engaging the sides of the frame guides in the well to prevent vibration, the rollers being carried by plates secured to the frame at points where the panel is recessed. The meeting point of the inclined guides is preferably arranged below the top of well, but if above the well the triangular gap between the sashes when closed may be filled by a removable piece.

0) GB422215A – IMPROVEMENTS RELATING TO WINDOWS

10) Family number: 20281468 (GB422215A) © PatBase

Title: Improvements relating to windows

Priority: GB19330020666 19330722

Family:

Publication number	Publication date	Application number	Application date
GB422215 A	19350108	GB19330020666	19330722

Probable Assignee: HERBERT LINWOOD SLEIGH

Assignee(s):(std)**:** ARTHUR SAM CHESTON ; FREDERICK JOSEPH STUART ; HERBERT LINWOOD SLEIGH

International class (IPC 8–9)**:** E05F11/38 (Advanced/Invention); E05F11/38 (Core/Invention)

International class (IPC 1–7)**:** B60J1/14 E05F11/38

CPC: E05F11/382 E05Y2900/506 E05Y2900/55

European class: E05F11/38B P05Y900/506 P05Y900/550

Classification Explorer

Forward Citations: WO8807617, US2572764,

Abstract:
Source: GB422215A 422,215. Window holders. SLEIGH, H. L., CHESTON, A. S., and STUART, F. J., Widney Works, Bagot Street, Birming– ham. July 22, 1933, Nos. 20666/33 and 14364/34. [Class 44] [See also Group X] A sliding sash 23 is held in any required position by the engagement of pawls 27 on a rock shaft 26 with fixed rackbars 30, in the manner described in Specification 374,129.

0) GB449825A – IMPROVEMENTS IN MOTOR VEHICLES

11) Family number: 20450793 (GB449825A) © PatBase

Title: Improvements in motor vehicles

Priority: GB19350009109 19350323

Family:

Publication number	Publication date	Application number	Application date
GB449825 A	19360706	GB19350009109	19350323

Probable Assignee: FRANCIS BRIAN SYLVESTER GRIMST

Assignee(s):(std)**:** FRANCIS BRIAN SYLVESTER GRIMST

Assignee(s): FRANCIS BRIAN SYLVESTER GRIMSTON

International class (IPC 8–9)**:** B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00

CPC: B60J1/14

European class: B60J1/14

Classification Explorer

Forward Citations: US2596355, DE946951,

Abstract:
Source: GB449825A 9109. [Classes 103 (ii) and 108 (i)] [See also Group X] A motor vehicle having a movable hood adapted to be moved between an " up " position in which it forms a roof and a " down position at the rear of the vehicle is provided with a movable window at each side adapted to be housed in a " down " position in the body of the vehicle and arranged for movement about a horizontal pivot As. shown the hood 1 is movable by means of side links and c. from the position shown in Fig. 1, to a position in which it rests on the tonneau 2 and a pair of doors 3, 4 are hinged at each side to a central pillar by hinges 15. In the front door 3 is housed a window 6 adapted to be movable vertically and in the rear door 4 a window 11 with frame 12, 13 is pivoted at 14 so as to swing as shown. The window is preferably operated by a link 22, quadrant 19, pinion 21 and hand crank and the window and frame is offset at 12 <1> to overlap the central pillar and either abut against or overlap the rear edge of the front window 6. A transverse screen 23 with foldable side flaps 30 is provided to co–operate with the windows 11 when the hood is lowered and is adapted to be lowered into a housing 24 which is pivoted at 25 whereby the screen 23 may be adjusted towards the windows 16. Specification 445,188 is referred to.

0) US2552503A – DOOR AND WINDOW STRUCTURE FOR CONVERTIBLE BODIE...

12) Family number: 22135615 (US2552503A) © PatBase

Title: DOOR AND WINDOW STRUCTURE FOR CONVERTIBLE BODIES

Priority: US19470793272 19471222 US19510222254 19510421

Family:

Publication number	Publication date	Application number	Application date
US2552503 A	19510508	US19470793272	19471222
US2596356 A	19520513	US19510222254	19510421

Probable Assignee: ACKERMANS JOHN W J

Assignee(s):(std)**:** ACKERMANS JOHN W J

Inventor(s):(std)**:** ACKERMANS JOHN W J

International class (IPC 8–9)**:** B60J1/14 B60J1/17 B60J5/04 (Advanced/Invention); B60J1/12 B60J1/17 B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00

CPC: B60J1/14 B60J5/0402 B60J1/17

European class: B60J1/14 B60J1/17 B60J5/04B2

US class: 296/149

Classification Explorer

Cited documents: US2552503 A, US2403061 A, US2356403 A, US2211665 A, US2135215 A, US2132688 A, US2129921 A, US2023238 A, US1973219 A, US1880208 A, US1826865 A, US1753795 A, US1721875 A, US1606675 A,

Forward Citations: US4567636, US3138283, US2761183, US2596356,

Abstract:
Source: US2552503A (Claim 1) 1. A vehicle body having at each side a lower center pillar and two doors provided with windows spaced from each other longitudinally of the body, a permanently erected transparent panel dispose,d between said windows and having edges formed with a groove, an insert in said grbove, supporting means on one of said doors for carrying said panel, removable fastening mechariism coacting with said supporting means and with said insert for retaining said panel, and weatherstripping secured to at least one side of said insert by said fastening mechanism, said supporting means comprising a guide channel for sliding one of said windows from a closed position to an open position,.

13) Family number: 19960523 (GB687458A) © PatBase

Title: IMPROVEMENTS IN AND RELATING TO AUTOMOBILE BODIES

Family:

Publication number	Publication date	Application number	Application date
GB687458 A	19530211	GB19510015539	19510629

Probable Assignee: BRIGGS MFG CO

Assignee(s):(std)**:** BRIGGS MFG CO

Assignee(s): BRIGGS MANUFACTURING CO

International class (IPC 8–9)**:** B60J5/04 B62D25/04 E05D5/02 (Advanced/Invention); B60J5/04 B62D25/04 E05D5/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: E05Y2900/531 B62D25/04 B60J5/0431 E05D5/0207 E05Y2600/626

European class: B60J5/04 B60J5/04E2B12 B62D25/04 E05D5/02A P05Y600/626

Classification Explorer

Forward Citations: US5472258, FR2949805,

Abstract:
Source: GB687458A 687,458. Road vehicle bodies. BRIGGS MANUFACTURING CO. June 29, 1951 [Aug. 18, 1950], No. 15539/51. Class 108 (i). An intermediate body pillar has greater thickness longitudinally of the body on the outside than on the inside. The pillar comprises sheet–metal members 27, 28 secured by their flanges 33, 28b and closed on the inside by a channel member 38. Secured to appropriate parts are hinge brackets of generally L–section having a short outer leg 35 and a longer inwardly extending leg 36 provided with an embossment 36a to which the channel–like hinge mounting 48 is secured by screws 52. The mounting 48 carries the hinge pin 47 on which the goose–neck type hinge 46 supporting the rear door C is mounted. The cross–section of the pillar is larger in the lower part than in the upper part in the neighbourhood of the door window.

0) US2677572A – VEHICLE BODY WINDCORD AND TRIM MOUNTING MEANS

14) Family number: 20563111 (US2677572A) © PatBase

Title: VEHICLE BODY WINDCORD AND TRIM MOUNTING MEANS

Priority: US19510207513 19510124

Family:

Publication number	Publication date	Application number	Application date
GB697073 A	19530916	GB19520001631	19520121
US2677572 A	19540504	US19510207513	19510124

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR CO LTD ; FORD MOTOR COMPANY ; FORD MOTOR COMPANY LIMITED

Inventor(s):(std)**:** PICKARD EDWIN C

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: B60J10/80

European class: B60J10/08

US class: 296/206 49/500.1

Classification Explorer

Cited documents: US2536863 A, US2383575 A, US2356976 A, US2051757 A, US1896632 A, GB541917 A, FR864869 A,

Forward Citations: US4549761, US3198572, US3090645, US3021172, US3019049, US2994555, US2967072, US2787493,

Abstract:
Source: GB697073A 697,073. Draught excluders. FORD MOTOR CO.. Ltd. Jan. 21. 1951 [Jan. 24. 1951], No. 1631/52. Class 20(iii) A windcord, for a vehicle body, having an enlarged cylindrical sealing portion 33, Fig. 2, formed of resilient material such as sponge rubber and a smaller beaded portion 34 formed of hard rubber or cording spaced from portion 33 and connected thereto by a reinforcing strip 36 covered by fabric 37 is clamped against the inwardly extending flanges 17, 18 of the body structure by a continuous metal strip 23 provided with holes 26 registering with tabs 22 struck up from the body member; the marginal edge of the clamping strip 23 lying adjacent the windcord to clamp, it in place. The strip 23 has flanges 27, 28 to receive the edge of a trim panel 31. As applied to mounting the windcord at the windshield pillar, the clamping strip has no spaced flanges for receiving a trim. panel. In the mounting arrangement adjacent the roof rail 51, Fig. 7, the clamping strip 57 having a base 58. provided with holes for receiving tabs 59 struck from the body member 53, is formed with a rolled edge 63 for clamping the windcord against flanges 54, 56. A plurality of triangular barbs 64 struck out from the clamping strip 57 pierce the fabric headlining 67 of the vehicle to anchor it.

0) US2680645A – AUTOMOBILE BODY PILLAR AND DOOR

15) Family number: 22142271 (US2680645A) © PatBase

Title: AUTOMOBILE BODY PILLAR AND DOOR

Priority: US19500180231 19500818

Family:

Publication number	Publication date	Application number	Application date
US2680645 A	19540608	US19500180231	19500818

Probable Assignee: BRIGGS MFG CO

Assignee(s):(std)**:** BRIGGS MFG CO

Assignee(s): BRIGGS MANUFACTURING COMPANY

Inventor(s):(std)**:** BRILL HERBERT C

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B62D25/04

CPC: Y10T16/5525 Y10T16/5595 B60J10/80

European class: B60J10/08

US class: 16/379 16/389 296/206 49/484.1 49/500.1

Classification Explorer

Cited documents: USRE19416 E, US2532203 A, US2342531 A, US2326789 A, US2314337 A, US2121790 A, US1622098 A,

Forward Citations: US3944278, US3097878, US2860911, US2775478, DE1147496,

Abstract:
Source: US2680645A (Claim 1) 1. In a vehicle body, an interraediate body pillar havip–g a rear face comprising a jamb fbr. a rear door, a rear door hingedly4 connected to s–,_id P–lilar and, having a window in its upper poytion, said jamb and juxi.–aposed portion of the closed door below –the window being offset later– 4o ally outward a7–id _ rearward of. the upper portion of said jarr_b at the_ windovi level.

0) US2719749A – MOTOR VEHICLE WINDSHIELD PILLAR CONSTRUCTION

16) Family number: 22397454 (US2719749A) © PatBase

Title: MOTOR VEHICLE WINDSHIELD PILLAR CONSTRUCTION

Priority: US19540417256 19540319

Family:

Publication number	Publication date	Application number	Application date
US2719749 A	19551004	US19540417256	19540319

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR COMPANY

Inventor(s):(std)**:** PULLEYBLANK AUBREY V ; RICHARDS JESSE W

International class (IPC 8–9)**:** B60J10/00 B62D25/04 (Advanced/Invention); B60J10/00 B62D25/04 (Core/Invention)

International class (IPC 1–7)**:** B60H1/00

CPC: B60J10/00 B62D25/04

European class: B60J10/00 B62D25/04

US class: 296/200 296/93 296/96.21 49/391

Classification Explorer

Cited documents: US2620221 A,

Forward Citations: US5772277, US4807925, US3526426, US3155420, US2817559,

Abstract:
Source: US2719749A (Claim 1) 1. In a motor vehicle body construction, a windshield pillar at each side of said body having inner and outer pillar sections welded together along their marginal edges, said windshield pillar having a generally vertically extending upper portion and a forwardly and downwardly curved lower portion, the forward ends of said inner and outer pillar sections being substantially horizontal, a door hinge pillar at each side of said body having a Vertical door supporting portion and a generally horizontal rearwardly projecting portion with the latter being welded to the forward end of said outer windshield pillar section, a side cowl panel extending generally horizontally and longitudinally and having its forward end welded to said door hinge pillar and its rearward end welded to the inner windshield pillar section, said door hinge pillar and said side cowl panel forming a structural support for said windshield pillar, and an upper cowl panel extending transversely across said vehicle body and having its outer portions supported upon said door hinge pillars, said upper cowl panel having an upper flange generally arcuate in plan and conforming to the curvature of the windshield and extending transversely of the vehicle body between the windshield pillars at opposite sides thereof, said upper cowl Range intersecting said windshield pillars adjacent the juncture between the generally vertical upper portion of each windshield pillar and the forwardly and downwardly curved lower portion of each windshield pillar to form with the upper portions of said windshield pillars the windshield opening and to conceal from view the lower curved portions of said windshield pillars.

0) GB765044A – IMPROVEMENTS IN OR RELATING TO MOTOR–VEHICLE BO...

17) Family number: 19799016 (GB765044A) © PatBase

Title: IMPROVEMENTS IN OR RELATING TO MOTOR–VEHICLE BODY–CONSTRUCTIONS

Priority: 19540319 GB19550008005 19550318

Family:

Publication number	Publication date	Application number	Application date
GB765044 A	19570102	GB19550008005	19550318

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR CO LTD ; FORD MOTOR COMPANY LIMITED

International class (IPC 8–9)**:** B60J10/02 B62D25/08 (Advanced/Invention); B60J10/02 B62D25/08 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B62D25/08

CPC: B62D25/081 B60J10/70

European class: B60J10/02 B62D25/08B

Classification Explorer

Forward Citations: WO09098579, US7946645,

Abstract:
Source: GB765044A 765,044. Vehicle bodies. FORD MOTOR CO., Ltd. March 18, 1955 [March 19, 1954], No. 8005/55. Class 108(1). To obtain relatively sharp corners adjacent the windshield pillar in a vehicle with a wraparound windshield without undue stress concentrations the pillar 19 at its upper end penetrates the roof rail 44 and has its outer section 27 provided with a flange 51 welded to the outer roof rail section 52 and its inner section 26 provided with an extension flange 57 welded between the flanges 53 and 56 of the inner and outer roof rail sections. At the lower end the pillar sections, Fig. 2, are curved forwardly and are secured to the forward door pillar 66 by welding together flanges 63 and 72 and flange 62 to the rearward wall 74 of the door pillar. The inner side of the door pillar 66 is completed by a side cowl panel 76 having a flange 77 for attachment to the flange 72 and being secured to flanges 79, 81 formed on the forward face 67 of the door pillar. The joint between the windshield and door pillars is concealed by cowl panel 16 and by the reinforcement panel 97.

0) GB772128A – IMPROVEMENTS RELATING TO VEHICLE WINDOW ASSEMBL...

18) Family number: 20016438 (GB772128A) © PatBase

Title: Improvements relating to vehicle window assemblies

Priority: 19541025

Family:

Publication number	Publication date	Application number	Application date
GB772128 A	19570410	GB19550029180	19551013

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

International class (IPC 8–9): B60J1/17 (Advanced/Invention); B60J1/17 (Core/Invention)

CPC: B60J1/17

European class: B60J1/17

Classification Explorer

Forward Citations: FR2972391, DE3116917,

Abstract:
Source: GB772128A 772,128. Vehicle windows. GENERAL MOTORS CORPORATION. Oct. 13, 1955 [Oct. 25, 1954], No. 29180/55. Class 20(3) A rear quarter drop window 30 for a hardtop sedan type of vehicle which is pillarless above the waistline and therefore must have its entire support for the window located within a window well 32, is mounted on curved guides 46, 58 for vertical movement in a slantwise path into and out of the well 32 formed between laterally spaced inner and outer panels 34, 36 of the door, and is provided with a stabilizer which resists lateral sway of the window in its raised position and comprises a rail 98 which is pivoted to the lower rail of a frame 38 for the window and is slidably engaged by a fixed roller member 102 so that during opening, or closing movement of the window the rail turns about its pivot and slides along the member 102. The stabilizer arm 98 includes a U–shaped channel 100 which slidingly receives the headed roller 102 which is carried by a bolt 104 adjustably secured to a channel 106 extending horizontally along the outer door panel 36 and secured, with rubber pads 108, at its ends to the door edges. A U–shaped channel 110, welded to the upper end of the channel 100, is pivoted by a rivet 112 to a plate 114 which carries an angle plate 116 to form, with the outer face of the plate 114, a channel to interlock with one upper side of the channel 110 when the window is raised and sealed against the rear edge 40 of a front window 42 and against a roof panel 20. Front and rear rollers 74, 76, projecting from the inner side of the lower edge of the window frame, engage the tracks 46, 58, which are mounted by brackets 48, 50 and 60, 62, to the inner door panel 34, a bracket 56, and a lip 68 on the bracket 62, acting as stops for.the bottom rail of the window frame 38 when the window is lowered. Mechanism for moving the window includes a reversible motor 94 which swings an operating arm 84 which is pivoted at one end at 86 to a frame 88 secured to the inner door panel 34 and carries on its free end a roller 82 which slidingly engages a channel 80 secured to the lower rail of the window frame 38. Additional lateral stability of the window in the raised position is achieved by a tongue 120 which is adjustably secured to the front member of the door frame for interlocking engagement, when the window is in its fully open position, with a grooved bracket 128 which is adjustably secured to the forward edge of the window frame 38. During the rearward and downward movement of the window from a fully closed position, the stabilizing arm rotates in a counter–clockwise direction about the pivot 112, disengages the angle plate 116, and slidably pivots about the roller 102, thus following an irregular curvilinear path different from that of the window.

0) US2860911A – AUTOMOBILE BODY PILLAR AND DOOR CONSTRUCTION

19) Family number: 20093968 (US2860911A) © PatBase

Title: AUTOMOBILE BODY PILLAR AND DOOR CONSTRUCTION

Priority: US19540464201 19541025

Family:

Publication number	Publication date	Application number	Application date
DE1075958 B	19600218	DE1955G018221	19551021
GB773127 A	19570424	GB19550027715	19550929
US2860911 A	19581118	US19540464201	19541025

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** BART COTTER ; COTTER BART

International class (IPC 8–9)**:** B60J10/08 B60J5/04 B62D25/04 E05D5/02 (Advanced/Invention); B60J10/00 B60J5/04 B62D25/04 E05D5/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B62D25/04

CPC: B60J10/80 B62D25/04 B60J5/04 B60J5/0431 E05D5/0207 E05Y2600/626 E05Y2900/531

European class: B60J10/08 B60J5/04 B60J5/04E2B12 B62D25/04 E05D5/02A P05Y600/626 P05Y900/531

US class: 296/146.11 296/146.9 296/202 49/166 49/366

Classification Explorer

Cited documents: US2680645 A, US2532203 A, US2248319 A, US2167664 A, US2061788 A, US1831455 A, FR983890 A, FR516259 A, DE615693 A, DE577330 A, CH194919 A,

Forward Citations: US8555552, US8328269, US7871120, US6129410, US5564775, US5074611, US4716623, US4713862, US4700984, US4700983, US4697842, US4591204, US4018475, US3944278, US3097878, US2013047519, US2012256445, US2012193938, US2009100762, FR2434725, EP1190938, EP1190938, EP0180234,

Abstract:
Source: GB773127A 773,127. Vehicle bodies. GENERAL MOTORS CORPORATION. Sept. 29, 1955, No. 27715/55. Class 108(1). The pillar between'the front and rear doors of an automobile comprises an inboard channel 70 secured to front and rear plates 82, 103 and an internal stiffener 142. The plate 103 is provided with a forward offset defined by surfaces 136, 141, 140 from approximately the belt–line to the region of the lower door hinge to accommodate a projection on the door 10 defined by surfaces 206, 208, 210 thus enabling the window frame 24 for the rear window 16 to be disposed within the transverse planes containing the front and rear surfaces of the door post.

0) US2797958A – ABUTTING FRONT AND REAR DOOR WINDOWSEAL CONSTRU...

20) Family number: 20520170 (US2797958A) © PatBase

Title: ABUTTING FRONT AND REAR DOOR WINDOWSEAL CONSTRUCTION FOR HARD TOP SEDANS

Priority: US19550482137 19550117

Family:

Publication number	Publication date	Application number	Application date
DE1074420 B	00000000		00000000
GB784770 A	19571016	GB19560000814	19560110
US2797958 A	19570702	US19550482137	19550117

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** PODOLAN EDWARD G

International class (IPC 8–9)**:** B60J10/08 B60J5/04 (Advanced/Invention); B60J10/00 B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 E06B3/04

CPC: B60J10/80

European class: B60J10/08 B60J5/04

US class: 49/371 49/480.1 49/483.1

Classification Explorer

Cited documents: US2692792 A, US1962809 A, US1317410 A, GB647756 A, GB454352 A, GB419740 A, GB276839 A, GB276684 A, GB260056 A, FR820462 A, FR1058864 A, FR1047933 A, DE911376 A, DE659705 A, DE583362 A, DE581038 A, DE544462 A, DE391337 A, DE1695246 U, CH176787 A,

Forward Citations: USRE36825, US5581946, US5433031, US4842327, US3959927, US3461611, US3400964, US3160452, US3150422, US3095619, US2938245, US2933784, US2892220, US2008236062, DE1185072,

Abstract:
Source: US2797958A 784,770. Vehicle windows, draught excluders. GENERAL MOTORS CORPORATION. Jan. 10, 1956 [Jan. 17, 1955], No. 814/56. Class 20(3) A vehicle of the four door hard–top sedan type having no centre pillar and no fixed door frame above the body waist line, except for a ventipane window frame 18, is provided with a mechanical seal between the rear vertical frame portion 24 of a vertically slidable front window 12, mounted within a front door 4 hinged at its forward edge to the vehicle body and latched.at its rearward edge to a centre pillar 6, and the front vertical frame portion 26 of a vertically slidable rear window 20 which is mounted and supported within a rear door 8, hinged at its forward edge to the centre pillar 6 and latched at its rearward edge 10 to the vehicle body. The front vertical frame member 26 of the rear window 20 has a dovetail groove 28 which accommodates a frusto–conical sealing strip 32 having a groove 34 defined by two rounded lips 36, 37. The rear vertical frame member 24 of the front window 12 has a T–slot 38 for a metal sealing member 44 which is urged toward the rear by a number of coil compression springs 48 fitted within vertically spaced bores 50 in the sealing member 44 and reacting against the base of the slot 38 so that flanges 46 on the sealing member 44 abut against the shoulders 42 of the T–shaped slot 38. The protruding edge of the sealing member 44 has oblique surfaces 52, 53 terminating in a blunt nose 54 which engages within the groove 34 in the sealing strip 32 when the doors are closed. In a modification the sealing member in the rear frame edge 24 of the front window frame 12 is urged rearward by a number of leaf springs which extend within a channel along the length of the corresponding edge of the sealing member and have their ends bearing against the base of the T–shaped slot, the nose of the sealing member being provided with a groove of semi–circular cross section to receive a bead in the sealing member carried by the forward frame member 28 of the rear window 20.

0) US2805886A – FOLDING PILLAR AND VERTICALLY MOVABLE WINDOW AR...

21) Family number: 22181999 (US2805886A) © PatBase

Title: FOLDING PILLAR AND VERTICALLY MOVABLE WINDOW ARRANGEMENT FOR VEHICLE BODIES

Priority: US19550553463 19551216

Family:

Publication number	Publication date	Application number	Application date
US2805886 A	19570910	US19550553463	19551216

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** SEMAR CLAUD S

International class (IPC 8–9)**:** B60J1/17 E05F11/44 (Advanced/Invention); B60J1/17 E05F11/38 (Core/Invention)

International class (IPC 1–7)**:** E05F11/44

CPC: B60J1/17 E05F11/445 E05Y2900/55

European class: B60J1/17 E05F11/44B P05Y900/550

US class: 49/323 49/351

Classification Explorer

Cited documents: US2080936 A, US1909168 A, US1752511 A,

Forward Citations: US3859753, US3816961, US3706236, US2947569,

Abstract:
Source: US2805886A (Claim 1) 1. I In a vehicle–body having a window op–.nitig therein and a body well below said opening, a window supported on said body for movidrnent between an opeil position within said well and a closed positiorl– within sa–_d opening, a body _pillar structur6 movably– supported on –,aid body at one. side of said window for mo,,,ement betweeii aTi out bf the way position and an operating position wi–thin said opening in abutting relationship_with an edge nortion of said window in the closed position thereof, and common operatin.– means alternately operatively connectqble and altefnately non–op_–ratively connectable with said pillar structiire and said window for sequent:al operation and–non–operation thereof.

0) US2828999A – WINDOW ARRANGEMENT FOR VEHICLE BODIES

22) Family number: 21763955 (US2828999A) © PatBase

Title: WINDOW ARRANGEMENT FOR VEHICLE BODIES

Priority: US19560557743 19560106

Family:

Publication number	Publication date	Application number	Application date
US2828999 A	19580401	US19560557743	19560106

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** SCHAMEL CLYDE H ; SEMAR CLAUD S

International class (IPC 8–9)**:** E05F11/38 (Advanced/Invention); E05F11/38 (Core/Invention)

International class (IPC 1–7)**:** B60J1/17 E05F11/38 F16C11/04

CPC: E05F11/382 E05Y2900/55

European class: E05F11/38B P05Y900/550

US class: 296/149 49/136 49/143

Classification Explorer

Cited documents: US2317697 A, US2138838 A, US2131745 A, US2032690 A, US1914066 A, US1826865 A,

Forward Citations: US3086810, US3024062,

Abstract:
Source: US2828999A (Claim 1) What is claimed is: 1. In combination with a vehicle body having Q window opening therein and a window Well below said opening having an entrance thereto, a Strat window mounted on said body for movement to open and closed positions with respect to a portion of said window opening and adapted to close a portion of the entrance of said well in the closed position thereof, a second window supported on saidbody for movement into and out of said well to open and closed positions with respect to an adjacent portion of said win~ dow opening, said second window having an open position Within said Well and a closed position within said opening out of registry with thc entrance of said wel] to allow movement of said first Window to closed position, operadug means for moving each of said windows to open and closed positions, and means controlled by said windows , y ,_ z,s2s,999 ` ` ll 12 in predeterminedpositions thereof for coordinating actuation of said operating means.

0) US2997334A – VEHICLE BODY WINDOW GLASS FRAME STRUCTURE

23) Family number: 22235012 (US2997334A) © PatBase

Title: VEHICLE BODY WINDOW GLASS FRAME STRUCTURE

Priority: US19590823433 19590629

Family:

Publication number	Publication date	Application number	Application date
US2997334 A	19610822	US19590823433	19590629

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR COMPANY

Inventor(s):(std)**:** KRAMER CLARENCE F

International class (IPC 8–9)**:** B60J1/00 (Advanced/Invention); B60J1/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00

CPC: B60J1/007

European class: B60J1/00F4

US class: 49/211 49/34 49/40 49/440

Classification Explorer

Cited documents: US2912727 A, US2844405 A, US2798761 A, US2260997 A, US2120359 A, US1701969 A,

Forward Citations: US2012055841,

Abstract:
Source: US2997334A (Claim 1) 1. In combination, a curved window glass adapted to be raised or lowered relative to a window opening, said window glass having a predetermined curvature through 55 its vertical section and a sag through its horizontal section, said sag reaching a maximum approximately midway of the height of the glass, cushioning means encompassing a peripheral edge of said glass, and a frame structure comprising a substantially U–shaped channel 60 member having a base portion and vertically extending leg portions at each edge thereof, means on at least one of said leg portions effective to maintain the latter in spaced relationship to the adjacent edge of said glass, the outer width of said channel member across said leg por– 65 tions being such that the glass is retained in a position sufficiently inboard of the extreme outer point of sag on the curved surface thereof to permit lowering or raising movements of the glass through a body structure defining said window opening without interference at said extreme 70 outer point of sag, said frame structure in engagement with said body structure maintaining the lateral stability of said glass during said movements.

0) US3006681A – VEHICLE WINDOW STABILIZER

24) Family number: 22540581 (US3006681A) © PatBase

Title: VEHICLE WINDOW STABILIZER

Priority: US19570670901 19570710

Family:

Publication number	Publication date	Application number	Application date
US3006681 A	19611031	US19570670901	19570710

Probable Assignee: ANDERSON CO

Assignee(s):(std)**:** ANDERSON CO

Assignee(s): THE ANDERSON COMPANY

Inventor(s):(std)**:** WISE RALPH H

International class (IPC 8–9): B60J1/17 (Advanced/Invention); B60J1/17 (Core/Invention)

International class (IPC 1–7): B60J1/17

CPC: B60J1/17

European class: B60J1/17

US class: 49/227

Classification Explorer

Cited documents: US2811387 A, US2809827 A, US2775479 A, US2746747 A,

Forward Citations: US6425208, US2007176464,

Abstract:
Source: US3006681A (Claim 1) A movable window construction for an automobile or the like having a body, spaced guide tracks for carrying the window as it is raised and lowered, said tracks being fixedly mounted in the body, said window traversing a generally vertical path into and out of the body and having an endwise movement substantially in the plane of the glass during the raising and lowering thereof, support means cooperating with and extending longitudinally along the bottom of the window, track following means disposed at points spaced along the support means for cooperating with the support means and the tracks during the raising and lowering of the window, means for raising and lowering the window, and stabilizing means for coacting with the window to assist in holding it against displacement relative to the body when the window is projected an appreciable distance out of the body comprising a pair of substantially rigid downwardly extending members, said members being fixed relative to said window support means at spaced points, embracing elements rigidly mounted on the lower end portions of said members, each of said embracing elements being caused to embracingly engage said spaced guide tracks respectively by the motion of said window support means as the window is raised, whereby when the rigid downwardly projecting members and their associated embracing ele– ments engage the relatively fixed guide tracks, the up–vvardly extending window is stabilized.

0) US3034826A – CLOSURE SEALING ARRANGEMENT

25) Family number: 22644464 (US3034826A) © PatBase

Title: CLOSURE SEALING ARRANGEMENT

Priority: US19590823121 19590626

Family:

Publication number	Publication date	Application number	Application date
US3034826 A	19620515	US19590823121	19590626

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** GARVEY LOUIS P ; REUTHER MARTIN E

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** E05B65/30

CPC: B60J10/80

European class: B60J10/08

US class: 49/319 49/365 49/484.1

Classification Explorer

Cited documents: US2876506 A, US2765504 A, US2171070 A, US1681869 A, US1558954 A, GB406613 A, GB384630 A, DE484095 A,

Forward Citations: US6009669, DE3927542,

Abstract:
Source: US3034826A (Claim 1) 1. The combination comprising, a vehicle body, a pair of closures swingably mounted on said body for movement between open and closed positions, latch means operable to latch said closures to eacli other or to unlatch said closures from each other to allow either or both to be moved between open and closed positions, sealing means mounted on one of said closures for movement between extended and retracted positions with respect thereto, said sealing means being located out of engagement with said other closure in the retracted position thereof to allow either or both of said closures to be moved between open and closed positions and being sealingly engageable with said other closure in the extended position thereof, and means responsive to operation of said latch means for moving said sealing means between said extended and retracted positions thereof.

0) AT231836B – PERSONENKRAFTWAGEN MIT GESCHLOSSENEM AUFSATZ P...

26) Family number: 24903733 (AT231836B) © PatBase

Title: PERSONENKRAFTWAGEN MIT GESCHLOSSENEM AUFSATZ PASSENGER CARS WITH CLOSED TOP (Machine translation)

Priority: 19580701

Family:

Publication number	Publication date	Application number	Application date
AT231836 B	19640225	AT19590004784	19590630

Probable Assignee: DAIMLER BENZ AG

Assignee(s):(std)**:** DAIMLER BENZ AG

Assignee(s): DAIMLER BENZ AKTIENGESELLSCHAFT

Inventor(s):(std)**:** BARENYI BELA ING

Inventor(s): ING BELA BARENYI

International class (IPC 1–7)**:** B60J1/08 B62D25/06

Forward Citations: US3797881,

Abstract:
Source: AT231836B [Source: Claim 1] 1. Personenkraftwagen mit geschlossenem Aufsatz, dessen Dach im wesentlichen flach ist und durch mindestens vier Saeulen getragen ist, dadurch gekennzeichnet, dass entlang den Laengskanten des Daches (1) auf diesem ueber die Dachflaeche nach oben vorstehende Erhebungen (4) in Form von Rippen, Auswoelbungen, Flanschen od.dgl. angebracht sind. 20 [Source: claim 1] 1 passenger cars with closed top, its roofing is essentially flat and is worn by at least four columns, characterized that along the longitudinal edges of the roof (1) on this, over the roof surface to top protruding surveys (4) in the form of off vaults, ribs, flanges od.dgl. are attached. 20

0) DE1505588A1 – VORRICHTUNG ZUM ABLEITEN DES REGENWASSERS VON K...

27) Family number: 351744 (DE1505588A1) © PatBase

Title: VORRICHTUNG ZUM ABLEITEN DES REGENWASSERS VON KRAFTFAHRZEUGDAECHERN DEVICE FOR DIVERT THE RAIN WATER FROM KRAFTFAHRZEUGDAECHERN (Machine translation)

Priority: DE1966B087310 19660526

Family:

Publication number	Publication date	Application number	Application date
DE1505588 A1	19700709	DE19661505588	19660526

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Assignee(s): BAYERISCHE MOTORENWERKE AG

Inventor(s):(std)**:** HOFMEISTER WILLI

International class (IPC 8–9)**:** B60J1/20 B60J10/00 (Advanced/Invention); B60J1/20 B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60R13/06

CPC: B60J1/20 B60J10/32

European class: B60J1/20 B60J10/00G1

Classification Explorer

Forward Citations: US4518197, FR2525549, DE3600504, DE3214876, DE3132325, DE3124271, DE3023767, DE102010037018,

Abstract:
Source: DE1505588A1 (Claim 1) 1. Vorrichtung zum Ableiten des Regenwaasera von Kraftfahrzeug daechern, bestehend aus an den Laengeseiten des Daches ange–, ordneten Wasserablaufrinnen, die sich an den vorderen Dach pfosten, schraeg nach unten verlaufend, fortsetzeng wobei die Wasserablaufrinne von einer ueber ihre gesamte Laenge einen gleichbleibenden Querschnitt aufweisenden Profilleiste sowie Teilen des Daches bzw. des Dachpfostens gebildet ist und im Bereich der etwa horizontal verlaufenden Laengeseiten des Daches einen nach aussen offenen Querschnitt aufweistg dadurch gekennzeichnet, dass im Bereich der Dachpfosten der nach unten fuehrende Teil der Regenrinne einen nach aussen im wesentlichen geschlossenen, durch Teile der Profilleiste und des Dachpfostens gebildeten Querschnitt aufweist.

Machine translation: (Claim 1) 1 Device to derive the Regenwaasera of vehicle roofs made from in–to the Laengeseiten the roof positioned drain channels, the posts on the front roof is inclined downwards, fortsetzeng with the water drainage channel from one over its entire length a constant cross–section having profiled strip and parts of the roof or the roof pole is formed and in the range of approximately horizontal Laengeseiten of the roof, an outwardly open cross–section aufweistg wherein the area of the roof pillars of the world leading down part of the gutter an outwardly substantially closed by parts the profile of the roof bar and post formed cross–section.

0) US3728819A – VEHICLE DOORS

28) Family number: 1959546 (US3728819A) © PatBase

Title: VEHICLE DOORS

Priority: DE19700039710U 19701028 DE19700047061U 19701221 DE19702030799 19700623 DE19702030799 19700623 DE19702030799 19700623 DE19702020576 19700428 DE19722219176 19720420 FR19710014139 19710421 DE19702052764 19701028 DE19702054397 19701105 DE19702062822 19701221 DE19702064678 19701231 DE19702042936 19700829

Family:

Publication number	Publication date	Application number	Application date
AT314991 B	19740510	AT19710003614	19710427
BE766311 A1	19710916	BE19710766311	19710427
BR7102965 A0	19730419	BR19710002965	19710518
CH534065 A	19730228	CH19710005913	19710423
DE2020576 A1	19711125	DE19702020576	19700428
DE2020576 B2	19731004	DE19702020576	19700428
DE2020576 C3	19740425	DE19702020576	19700428
DE2030799 A1	19720504	DE19702030799	19700623
DE2030799 B2	19731129	DE19702030799	19700623
DE2030799 C3	19740718	DE19702030799	19700623
DE2042936 A1	19720302	DE19702042936	19700829
DE2052764 A1	19720504	DE19702052764	19701028
DE2052764 B2	19731129	DE19702052764	19701028
DE2052764 C3	19740822	DE19702052764	19701028
DE2054397 A1	19720510	DE19702054397	19701105
DE2062822 A1	19720803	DE19702062822	19701221
DE2062822 B2	19750507	DE19702062822	19701221
DE2062822 C3	19800410	DE19702062822	19701221
DE2064678 A1	19720727	DE19702064678	19701231
DE2064678 B2	19750626	DE19702064678	19701231
DE2219176 A1	19731031	DE19722219176	19720420
DE2219176 B2	19740404	DE19722219176	19720420
DE2219176 C3	19741121	DE19722219176	19720420
DE7015828 U	19701008	DE19700015828U	19700428
DE7032326 U	19710211	DE19700032326U	19700829
DE7039710 U	19710715	DE19700039710U	19701028
DE7047061 U	19710902	DE19700447061U	19701221
ES390306 A1	19750501	ES19710390306	19710417
FR2094969 A5	19720204	FR19710014139	19710421
GB1353483 A	19740515	GB19710011188	19710423
US3728819 A	19730424	US19710138032	19710428
ZA7102726 A	19720531	ZA19710002726	19710427

Probable Assignee: KIEKERT GMBH AND CO

Assignee(s):(std)**:** ARN KIEKERT SOHNE ; KIEKERT SOEHNE ARN ; KIEKERT A SOEHNE DT

Assignee(s): KIEKERT GMBH AND CO ; KIEKERT GMBH ; KIEKERT ARN SOHNE ; ARN KIEKERT AND SOHNE DT ; ARN KIEKERT SOEHNE ; ARN KIEKERT SOEHNE 5628 HEILIGENHAUS ; ARN KIEKERT SOHNE KETTWIGER STRASSE 16 20 HEILIGEN ; ARN KIEKERT SOHNE KETTWIGER STRASSE 16 20 HEILIGENHAUS ALLEMAGNE ; KIEKERT A SOEHNE

Inventor(s):(std)**:**

RUDOLF BRANDENBURG ; HORST GOLDBACH ; GOLDBACH HORST ; GOLDBACH H ; ERICH DABRINGHAUSEN ; DABRINGHAUSEN ERICH ; DABRINGHAUSEN E ; BRANDENBURG RUDOLF ; BRANDENBURG R

Inventor(s): BRANDENBURG R DT ; DABRINGHAUSEN E DT ; GOLDBACH H DT

International class (IPC 8–9): B60J5/06 B61D19/00 E05D15/10 E05F15/06 E05F15/14 (Advanced/Invention); B60J5/06 (Advanced/Non–invention); B60J5/06 B61D19/00 E05D15/10 E05F15/00 E05F15/14 (Core/Invention); B60J5/06 (Core/Non–invention); B60J (Subclass/Invention); B60J (Subclass/Non–invention)

International class (IPC 1–7): B60J5/00 B60J5/06 E05D15/10

CPC: E05Y2201/11 E05Y2201/684 E05Y2800/122 E05D15/1068 E05D15/1044 E05D2015/1055 E05D2015/1076 E05D2015/1086 E05D2015/1097 E05Y2900/51 E05Y2800/12 E05Y2800/27 B60J5/06 B61D19/008 E05D2015/1092 E05Y2201/22 B60J5/062 E05D15/1047 E05D15/1081 E05D2015/1031 E05Y2900/506 E05F15/565 E05F15/646 E05Y2600/46 E05Y2600/62

European class: B60J5/06 B60J5/06B B61D19/00C4 E05D15/10S1 E05D15/10S2 E05D15/10T1 E05D15/10T3 E05F15/06B E05F15/14F2 P05D15/10R2 P05D15/10S5 P05D15/10T2B P05D15/10T4A P05D15/10T4A2 P05D15/10T6 P05Y201/22 P05Y900/506 P05Y900/510

US class: 49/21.6 49/216 49/218 49/223 49/225

Classification Explorer

Cited documents: GB738486 A, FR698436 A, DE847916 A,

Forward Citations: WO9951129, WO9801644, WO9729264, WO9101427, WO15165677, WO15044357, WO14096465, WO14009626, WO07104902, WO04041567, WO0105612, US9752366, US9266540, US8070102, US8015727, US7918492, US6779832, US6328374, US5913562, US5711185, US5212849, US5210906, US5195272, US5173992, US5144720, US4561690, US4559740, US4541201, US4495729, US4492405, US4406420, US4337596, US4028850, US3994094, US3903661, US2010171336, US2010059628, US2005102854, JP53077517, ITFI20120150, GB2517887, FR2993210, FR2865758, FR2795446, FR2763033, FR2664882, FR2647721, FR2485077, FR2443942, FR2374495, FR2310236, FR2310236, FR2253386, FR2253386, ES2390717, ES2166667, ES2128944, ES2127098, ES2127097, ES2123388, EP3088646, EP3073037, EP1914372, EP1085154, EP0940278, EP0940278, EP0876946, EP0876945, EP0589096, EP0401081, EP0134971, EP0134971, EP0063281, DE4331078, DE4323424, DE4218006, DE3710451, DE3630229, DE3526761, DE3249390, DE3224395, DE3101000, DE3049189, DE2937662, DE2631853, DE2602610, DE202006015735, DE102013113483, DE102012006531, DE102009018430, DE102004033759, DE102004011903, DE10158094, CN104487271, AT514501, AT514501, AT392239, AT391160,

Abstract:
Source: US3728819A A swinging, sliding door for vehicles, said door comprising at least one door panel, a guide track mounted on the panel, at least one roller guided in the track and a telescopic guide having at least two sections, one of the sections being mounted on the door panel and another of the sections being adapted to be mounted on the body of a vehicle by means of guide members. The telescopic guide extends essentially parallel to the upper edge of the door panel and the sections of the telescopic guide are arranged to move substantially parallel to each other on movement of the door.

0) DE2121048A1 –

29) Family number: 563554 (DE2121048A1) © PatBase

Priority: DE19712121048 19710429

Family:

Publication number	Publication date	Application number	Application date
DE2121048 A1	19721102	DE19712121048	19710429

International class (IPC 8–9): B60J1/20 B60J10/00 B60J10/02 B60J10/08 B60R13/07 B62D25/04 (Advanced/Invention); B60J1/20 B60J10/00 B60J10/02 B60R13/00 B62D25/04 (Core/Invention)

International class (IPC 1–7): B62D25/02

CPC: B60R13/07 B60J1/20 B60J10/25 B60J10/70 B60J10/86 B62D25/04

European class: B60J1/20 B60J10/00D6 B60J10/02 B60J10/08C B60R13/07 B62D25/04

Classification Explorer

Forward Citations: WO10130486, FR2500388, DE3048889, DE2834012,

Abstract:
Source: DE2121048A1 (Claim 1) 1.Windschutzscheibensaeule fuer Fahrzeuge, insbesondere Kraft– fahrzeuge, mit einer in ihrem in Fahrtrichtung hinteren Aussen bereich verlaufenden, durch eine Regenleiste begrenzten Re genrinne, dadurch gekennzeichnet, dass die Regenrinne (6) zumindest teilweise in die Saeule (1) eingezogen ist und die Regenleiste (8) eine zwischen Parallelitaet zur Fahr zeuglaengsachse und Parallelitaet zu dem Profil (9) der nichteingezogenen Saeule (1) liegende Neigung bezueglich der Fahrzeuglaengsachse besitzt.

Machine translation: (Claim 1) 1.Windschutzscheibensaeule for vehicles, particularly motor vehicles, with one in her rear in the direction of travel outside area running through a wet bar, limited re genrinne, wherein the rain gutter (6), at least partially into the safari (1) is retracted and the rain bar (8) a zeuglaengsachse between parallelism and parallelism to drive to the profile (9) of unrecovered column (1) lying tendency has in respect of Fahrzeuglaengsachse.

0) GB1348298A – FLANGE EDGE PROTECTOR CONSTRUCTION FOR VEHICLE ...

30) Family number: 1719210 (GB1348298A) © PatBase

Title: FLANGE EDGE PROTECTOR CONSTRUCTION FOR VEHICLE DOOR OPENINGS

Priority: GB19710054132 19711122

Family:

Publication number	Publication date	Application number	Application date
DE2257257 A1	19730530	DE19722257257	19721122
GB1348298 A	19740313	GB19710054132	19711122
JP48063427 A2	19730904	JP19720117607	19721122

Probable Assignee: SCHLEGEL UK LTD

Assignee(s):(std)**:** SCHLEGEL UK LTD

Assignee(s): SCHLEGEL U K LTD LEEDS GROSSBRITANNIEN

Inventor(s):(std)**:** GARNETT JOHN FREDERICK CLAYTON ; WEAVER JOHN LOCKERBIE ; WEBSTER RONALD GEOFFREY ; WORMALD NIGEL

Inventor(s): GARNETT JOHN FREDERICK CLAYTON OTLEY YORKSHIRE

International class (IPC 8–9): B60J10/00 B60R13/06 F16B5/06 F16B5/12 (Advanced/Invention); B60J10/00 B60R13/06 F16B5/06 F16B5/12 (Core/Invention)

International class (IPC 1–7): B60R13/04 B60R13/06 E06B7/22 E06B7/23

CPC: B60J10/16 B60J10/235 B60J10/32 B60J10/33 F16B5/121 F16B5/0635

European class: B60J10/00C2 B60J10/00D3 B60J10/00G1 B60J10/00G1B F16B5/06B3B F16B5/12B

Classification Explorer

Forward Citations: US6260906, JP64022651, JP63015249, JP1022651, GB2273952, GB2273952, EP1930215, DE2623316,

Abstract:
Source: GB1348298A 1348298 Sealing strips SCHLEGEL (UK) Ltd 22 Nov 1971 54132/71 Heading E1J A flange edge protector comprises a U– shaped portion 13 from which extends a plate portion 15 with a flanged edge. The flange is on a vehicle body and the plate forms a doorsill or head liner. The plate and U–shaped portion are integrally extruded or moulded of plastics, fins 19 being of softer material, and door seal 21 is secured by heat sealing. Alternatively the plate and U–shaped portion are formed separately and heat–sealed together (Fig. 3, not shown).

0) US3866524A – VEHICLE WINDOW VENTILATOR

31) Family number: 1124127 (US3866524A) © PatBase

Title: VEHICLE WINDOW VENTILATOR

Priority: US19730359455 19730511

Family:

Publication number	Publication date	Application number	Application date
US3866524 A	19750218	US19730359455	19730511

Probable Assignee: FORBES JR HAMPTON E

Assignee(s):(std)**:** FORBES JR HAMPTON E

Inventor(s):(std)**:** FORBES JR HAMPTON E

International class (IPC 8–9)**:** B60H1/26 B60J1/20 (Advanced/Invention); B60H1/24 B60J1/20 (Core/Invention)

International class (IPC 1–7)**:** B60H1/24 B60H1/26 B60J1/16

CPC: B60H1/267 B60J1/20

European class: B60H1/26C B60J1/20

US class: 454/131

Classification Explorer

Cited documents: US2034528 A,

Forward Citations: USD556657, USD554571, USD549626, USD544821, US9630481, US9279325, US8147300, US7172240, US5797645, US5525105, US4923241, US4756242, US2008113601, EP0170238, EP0170238,

Abstract:
Source: US3866524A A vehicle window ventilating device adapted for present day style windows comprises a slotted flange extension for the window opening of a vehicle. In one form, the slotted flange extension comprises a simple extension of the conventional flange presently provided around vehicle window apertures, and against which the window seats, for controlling the engress and egress of air and water through the window opening, and in another embodiment, the slotted flange extension comprises an accessory element having at least two angularly related sections. In the latter case, one section of the slotted flange extension element is attached to the vehicle window opening along both the rearwardly inclined front portion and the upper portion thereof, and the second section of the flanged extension element extends into the window opening aperture to reduce the apparent size thereof. However, both the second section of the flanged extension element and the simple extension of the conventional window flange each include a slotted part which slotted part is located along the inclined front portion of said window opening, thereby providing a ventilating slot along the inclined front portion of said window opening when the window member is partially lowered within the window opening.

0) US4018474A – VEHICLE BODY CONSTRUCTION WITH SLIMLY SHAPED FR...

32) Family number: 1386730 (US4018474A) © PatBase

Title: VEHICLE BODY CONSTRUCTION WITH SLIMLY SHAPED FRONT PILLAR

Priority: JP19740098411 19740829

Family:

Publication number	Publication date	Application number	Application date
JP51027225 A2	19760306	JP19740098411	19740829
JP52032494 B4	19770822	JP19740098411	19740829
JP900786 C3	19780315	JP19740098411	19740829
US4018474 A	19770419	US19750606213	19750820

Probable Assignee: NISSAN MOTOR

Assignee(s):(std)**:** NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD

Inventor(s):(std)**:** AYA AKIMOTO ; AYA NORIMOTO ; KAJIO YOSHIHIRO

International class (IPC 8–9)**:** B60J10/02 B60J10/06 B62D25/04 B62D25/06 (Advanced/Invention); B60J10/02 B62D25/04 B62D25/06 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00 B62D25/04 B62D25/06

CPC: B60J10/70 B60J10/79 B62D25/04

European class: B60J10/02 B60J10/06 B62D25/04

US class: 296/200 296/28R 296/96.12 296/96.21

Classification Explorer

Cited documents: US2456175 A, US2061788 A,

Forward Citations: US9610981, US4292774, JP54036107,

Abstract:
Source: US4018474A The front pillar consists of three sheet–formed members, each of which is bent lengthwise to form a central crease, assembled back to back and in close contact with each other so that the three ridges of the respective creases form one line and the cross–section of the pillar is Y–shaped. The front pillar is arranged such that the front windshield and a window glass panel are mounted on the pillar partitioned by one leg of the letter Y, while the remaining side of the pillar is exposed to the interior of the body.

0) US3961821A – VEHICLE BODY HAVING A WINDOW OPENING

33) Family number: 1291361 (US3961821A) © PatBase

Title: VEHICLE BODY HAVING A WINDOW OPENING

Priority: US19750589641 19750623

Family:

Publication number	Publication date	Application number	Application date
CA1054651 A1	19790515	CA19760253160	19760521
DE2626015 A1	19770120	DE19762626015	19760610
GB1495900 A	19771221	GB19760020362	19760517
US3961821 A	19760608	US19750589641	19750623

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CANADA ; FORD MOTOR CO ; FORD WERKE AG

Assignee(s): MISTOPOULOS CHRIS ; FORD MOTOR CO LTD ; FORD MOTOR CO OF CANADA ; FORD MOTOR CO OF CANADA LTD ; FORD MOTOR COMPANY

Inventor(s):(std)**:** MISTOPOULOS C ; MISTOPOULOS JR CHRIS ; MISTOPOULOS JUN CHRIS

Inventor(s): MISTOPOULOS CHRIS ; JUN

International class (IPC 8–9): B60J1/00 B60J1/10 B60J10/02 (Advanced/Invention) ; B60J1/08 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J1/00 B60J1/10 E06B3/54

CPC: B60J10/777 B60J1/10

European class: B60J1/10 B60J10/04E4

US class: 248/208 296/146 296/146.15

Classification Explorer

Cited documents: US3776591 A, US2772915 A, US2067939 A,

Forward Citations: US8490345, US4148532, US2014028050, US2003051421,

Abstract:
Source: US3961821A A vehicle body having a window opening, a window well subjacent the opening, and a vertical inner body panel forming a wall of the window well. A window panel supported on a bracket is provided for the window opening.

0) US4036522A – VEHICLE BODY ROOF CONSTRUCTION

34) Family number: 1419109 (US4036522A) © PatBase

Title: Vehicle body roof construction

Priority: US19760673174 19760402

Family:

Publication number	Publication date	Application number	Application date
US4036522 A	19770719	US19760673174	19760402

Probable Assignee: AMERICAN MOTORS CORP

Assignee(s):(std)**:** AMERICAN MOTORS CORP

Inventor(s):(std)**:** DEREES DELBERT D ; PINSONNEAULT JACQUES EMILE

International class (IPC 8–9)**:** B60J5/10 B62D25/06 (Advanced/Invention); B60J5/10 B62D25/06 (Core/Invention)

International class (IPC 1–7)**:** B60J9/00

CPC: B60J5/101 B60J5/107 B62D25/06

European class: B60J5/10 B60J5/10C B60J5/10C5 B62D25/06

US class: 296/154 296/210

Classification Explorer

Cited documents: US3938856 A, US3833254 A, US3794376 A, US3711147 A, US3596980 A, US3526426 A, US3326599 A, US2926402 A,

Forward Citations: US8668255, US7243985, US7021704, US6523983, US6290285, US6224125, US6027160, US4695090, US4653802, US4541664, US4508382, US4444428, US4410211, US4396223, US4231608, US2013175828, US2006066135, US2005146163, FR2519926, DE3837972, DE3809196,

Abstract:
Source: US4036522A A vehicle body roof construction of the disclosure includes an improved edge structure adjacent closure members thereof such as a side door or rear tailgate and also includes an improved pillar structure for supporting a roof panel whose edge portions are stamped to define integrally connected flanges that constitute components of the improved roof edge structure. At the side and rear edge portions of the roof panel, roof inner members have extreme outer edges secured to extreme outer edges of the roof panel so as to cooperate therewith in providing a side roof rail and a tailgate header that define the upper extremities of side door and tailgate openings, respectively. An associated side door and a tailgate are mounted for movement between open and closed positions and include upper window frames that overlie the adjacent roof panel edge portion in their closed position. Pillars support the side edge portion of the roof panel at its juncture with the rear and front edge portions of the roof panel. Each pillar includes inner and outer members that define an enclosed chamber and include first and second portions that project along the adjacent front or rear edge portion and the side edge portion, respectively. The pillar outer member includes depressions in its projecting portions at a spaced location from the juncture of the roof panel edge portions.

0) GB2029339A – VEHICLE ROOF PANELS

35) Family number: 1742050 (GB2029339A) © PatBase

Title: Vehicle Roof Panels

Priority: US19780938444 19780831

Family:

Publication number	Publication date	Application number	Application date
DE2935665 A1	19800313	DE19792935665	19790831
ES483730 A1	19800301	ES19790483730	19790830
GB2029339 A1	19800319	GB19790029994	19790830
IT1122878 A	19860430	IT19790025336	19790829
IT7925336 A0	19790829	IT19790025336	19790829
JP55036184 A2	19800313	JP19790101159	19790808

Probable Assignee: AMERICAN SUNROOF CORP

Assignee(s):(std)**:** AMERICAN SUNROOF CORP

Inventor(s):(std)**:** KALTZ MILTON C ; MIRUTON SHII KARUTSU

Inventor(s): C KALTZ MILTON

International class (IPC 8–9)**:** B60J7/00 B60J7/02 (Advanced/Invention); B60J7/00 B60J7/02 (Core/Invention)

International class (IPC 1–7)**:** B60J7/02 B60J7/04 B60J7/4 B61D39/00

CPC: B60J7/0007

European class: B60J7/00B

Classification Explorer

Forward Citations: US4476154,

Abstract:
Source: GB2029339A A trim 10 has an actuator assembly 26–32 interconnected with a lifter assembly 34 associated with a slidable roof of a vehicle. When the panel is in the closed position the actuator assembly urges the trim into contiguity with the interior roof line to define a substantially contiguous configuration with the roof line of the vehicle. When the panel is opened, the trim is moved into engagement with the panel to facilitate storage of the panel in its retracted position. The construction is particularly adapted for utilization with sliding roof hatch panels.

0) JP55164521A – CENTER SEAL FOR DOOR GLASS OF AUTOMOBILE

36) Family number: 7002733 (JP55164521A) © PatBase

Title: CENTER SEAL FOR DOOR GLASS OF AUTOMOBILE

Priority: JP19790070407 19790605

Family:

Publication number	Publication date	Application number	Application date
JP55164521 A2	19801222	JP19790070407	19790605

Probable Assignee: NISSAN MOTOR

Assignee(s):(std)**:** NISSAN MOTOR

Inventor(s):(std)**:** SASAKI ICHIROU

International class (IPC 8–9)**:** B60J1/08 B60J10/04 (Advanced/Invention); B60J1/08 B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/08

Classification Explorer

Cited documents: JP52020617 B4,

Forward Citations: JP56119720,

Abstract:
Source: JP55164521A PURPOSE:To provide a proper seal and to prevent a generation of leaked blow of air or wind during a high speed driving of the car by a method wherein a lower part of the center seal extending forwardly to the lower and front edge of the center seal is made to be wide in the center seal for use in sealing between the rear and front door glasses. CONSTITUTION:In the automobile having no center pillar, a center seal 2 is fixed to the front edge of the rear door glass 1 to have a sealing acion between the glasses when the rear door glass 1 and the front door glass 3 are raised up from within the doors 4 and 5. In this case, the center seal 2 is made to have a wider lower part when front edge thereof is forwardly extended at 2b. Thereby, when the front door glass 3 is raised, the rear edge of the front glass 3 is positively positioned at the lower extended part 2b of the center seal 2 outside of the car 0 and overlapped against the extended part to prevent a generation of the leaked air or wind during a high speed driving of the automobile.

0) US4544198A – AUTOMOTIVE VEHICLE WITH FRONT AND REAR SLIDING ...

37) Family number: 2154708 (US4544198A) © PatBase

Title: AUTOMOTIVE VEHICLE WITH FRONT AND REAR SLIDING DOORS

Priority: JP19820124191 19820716

Family:

Publication number	Publication date	Application number	Application date
DE3325297 A1	19840119	DE19833325297	19830713
GB2126173 A1	19840321	GB19830019140	19830715
GB2126173 B2	19860806	GB19830019140	19830715
GB8319140 A0	19830817	GB19830019140	19830715
JP59015179 A2	19840126	JP19820124191	19820716
US4544198 A	19851001	US19830513688	19830714

Probable Assignee: NISSAN MOTOR CO LTD

Assignee(s):(std): NISSAN MOTOR ; NISSAN SHATAI CO

Assignee(s): NISSAN MOTOR COMPANY LIMITED ; NITSUSAN SHIYATAI KK ; NISSAN JIDOSHA KK ; NISSAN MOTOR CO ; NISSAN MOTOR CO 2 TAKARA CHO KANGAWA KU YOKOHAMA S ; NISSAN MOTOR CO 2 TAKARA CHO KANGAWA KU YOKOHAMA SHI KANAGAWA KEN JAPAN LTD ; NISSAN MOTOR CO LTD

Inventor(s):(std): OCHIAI AKIRA ; SUZUKI YOSHITAKA

Inventor(s): YOSHITAKA SUZUKI ; AKIRA OCHIAI

International class (IPC 8–9): B60J10/00 B60J5/04 B60J5/06 E05D15/10 (Advanced/Invention); B60J10/00 B60J5/04 B60J5/06 E05D15/10 (Core/Invention)

International class (IPC 1–7): B60J5/04 B60J5/06 E05D15/06 E06B3/46

CPC: B60J10/40 B60J5/0479 B60J5/06 E05F5/003 E05Y2900/531

European class: B60J10/00J B60J5/04H5B B60J5/06 P05F5/00A P05Y900/531

US class: 296/155 49/370

Classification Explorer

Cited documents: US4152872 A, US4068407 A, US3501864 A, US2628860 A, JP57045420 A2, JP57041209 A2, GB505672 A, GB493234 A, GB370837 A, GB1316779 A, GB1227079 A, FR2493792 A1, DE6806861 U, DE2832270 B1,

Forward Citations: WO13154833, WO08025827, WO05007431, WO05007431, US9718497, US9566850, US9050878, US8740284, US8459592, US8104824, US7789022, US7726723, US7527321, US7311350, US7243978, US7104588, US6955389, US6902220, US6834909, US6779832, US6299241, US6286260, US5676417, US5618080, US5322339, US5042864, US4991905, US4984842, US4981321, US4976488, US4869544, US2015007504, US2013008088, US2010252682, US2010181797, US2009212592, US2008282614, US2007085374, US2007062118, US2005264031, US2005140145, US2005093331, US2004262945, US2004003484, FR2894884, FR2799788, EP1092574, EP0938992, EP0844123, EP0357543, EP0357542, EP0356373, EP0350228, DE4305598, DE3737533, DE102008020091,

Abstract:
Source: US4544198A An automotive vehicle has a single integral door opening on each side of the door body. The door opening is closed by a pair of front and rear doors which are slidable along the vehicle side to open and close the door opening. The rear edge of the front sliding door and the front edge of the rear sliding door directly oppose each other without a vehicle body pillar therebetween. The opposing edges of the sliding doors have seals for water–proofing. Also, the upper edges of the sliding doors sealingly contact seals mounted on vehicle side frames extending along upper edge of the door opening for water–proofing. Guide rails slidingly supporting the sliding doors are mounted on the side frames in such a manner that they serve to reinforce the side frames. Lower seals are provided between the lower edges of the front and rear doors and the lower side frames for establishing water–tight seal therebetween.

38) Family number: 4623547 (US4492405A) © PatBase

Title: SEALING STRUCTURE FOR AUTOMOTIVE VEHICLE SIDE DOORS

Priority: JP19820124192 19820716

Family:

Publication number	Publication date	Application number	Application date
DE3380987 D1	19900125	DE19833380987	19830712
EP0099116 A2	19840125	EP19830106836	19830712
EP0099116 A3	19861008	EP19830106836	19830712
EP0099116 B1	19891220	EP19830106836	19830712
JP1498571 C3	19890529	JP19820124192	19820716
JP59014519 A2	19840125	JP19820124192	19820716
JP63047647 B4	19880922	JP19820124192	19820716
US4492405 A	19850108	US19830513401	19830714

Probable Assignee: NISSAN MOTOR CO LTD

Assignee(s):(std): NISSAN SHATAI CO LTD ; NISSAN SHATAI CO ; NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN JIDOSHA KK ; NISSAN MOTOR COMPANY LIMITED ; NISSAN SHATAI COMPANY LIMITED ; NITSUSAN JIDOSHA KK ; NISSAN SHATAI CO LTD HIRATSUKA KANAGAWA JP ; NISSAN MOTOR CO LTD YOKOHAMA KANAGAWA JP ; NITSUSAN SHIYATAI KK ; NITSUSAN SHATAI KK

Inventor(s):(std): CHIKARAISHI TAKAYO ; KAWAMO KAZUNORI ; TUCHIYA YOSIMASA ; TSUCHIYA YOSHIMASA ; KAWAOMO KAZUNORI

Inventor(s): KAWAMO KAZUNORI ATSUGI SHI KANAGAWA KEN JP ; CHIKARAISHI TAKAYO KAWASAKI SHI KANAGAWA KEN JP ; TSUCHA YOSHIMASA ; TUCHIYA YOSIMASA EBINA SHI KANAGAWA KEN JP

Designated states: DE FR GB

International class (IPC 8–9): B60J10/00 B60J10/08 B60J5/06 B60R13/07 E06B7/23 (Advanced/Invention); B60J10/00 B60J5/06 B60R13/00 E06B7/22 (Core/Invention)

International class (IPC 1–7): B60J5/04 B60J5/06 B60R13/06 B60R13/07 E06B7/22

CPC: B60J10/24 B60J10/248 B60J10/25 B60J10/30 B60J10/40 B60J10/85 B60J10/86 B60R13/07 B60J5/06

European class: B60J10/00D5 B60J10/00D5E B60J10/00D6 B60J10/00G B60J10/00J B60J10/08B2 B60J10/08C B60J5/06 B60R13/07

US class: 296/146 296/146.9 296/154 296/213 49/483 49/483.1

Classification Explorer

Cited documents: US4378130 A, US3728819 A, US3432966 A, JP57045420 U1, JP57045420 A2, JP57045419 A2, JP57041209 A2, GB1091332 A, EP0103734 A1,

Forward Citations: WO15072558, WO12057842, USD488243, USD474845, USD460563, US9649922, US9617112, US8342601, US8328268, US7823963, US7168755, US6751908, US6601345, US4979333, US4678227, US4582358, US2017182871, US2016082815, US2012139298, US2012091749, US2011186577, US2007252410, US2006186608, US2005253413, US2003005644, KR101242266, KR100946447, JP61124416, JP6055930, JP5028723, JP4050546, JP2015072558, JP2009269526, JP2008285067, JP2006248426, JP2006248424, FR2794490, EP3072722, EP1346864, EP1057673, CN105916715,

Abstract:
Source: US4492405A A sealing structure for an automotive vehicle is adapted to establish a water–proof seal for a type of vehicle which has no pillar between adjacent front and rear doors. The seal between the adjacent doors serves as a downspout for a vehicle roof gutter for draining any water which might leak from the gutter.

39) Family number: 4931352 (US4561690A) © PatBase

Title: BODY STRUCTURE OF AUTOMOTIVE VEHICLE HAVING FRONT SWINGING DOOR AND REAR SLIDING DOOR AND HAVING NO PILLAR BETWEEN FRONT AND REAR DOORS

Priority: JP19820145857 19820823

Family:

Publication number	Publication date	Application number	Application date
DE3369288 D1	19870226	DE19833369288	19830810
EP0103734 A1	19840328	EP19830107913	19830810
EP0103734 B1	19870121	EP19830107913	19830810
JP59034922 A2	19840225	JP19820145857	19820823
US4561690 A	19851231	US19830524581	19830819

Probable Assignee: NISSAN MOTOR CO

Assignee(s):(std)**:** NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN MOTOR COMPANY LIMITED ; NISSAN JIDOSHA KK

Inventor(s):(std)**:** CHIKARAISHI TAKAYO ; NAKAMURA YOSHIHARU ; NAKAMURA ZENJI ; SHINJIYOU TSUNEO ; SHINJO TUNEO

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/04 B60J5/06 B62D25/02 B62D25/04 B62D25/20 (Advanced/Invention); B60J5/04 B60J5/06 B62D25/00 B62D25/04 B62D25/20 (Core/Invention)

International class (IPC 1–7)**:** B60J5/04 B60J5/06 B62D25/02 B62D25/04 B62D25/20

CPC: B60J5/0409 B60J5/0479 B60J5/06 Y10T292/0839 Y10T292/0853 Y10T292/564

European class: B60J5/04B7 B60J5/04H5B B60J5/06 B62D25/02

US class: 292/336 292/36 292/48 296/155 49/217

Classification Explorer

Cited documents: US4413444 A, US4157846 A, US4152872 A, US4110934 A, US4014587 A, US3728819 A, US3697124 A, US3171669 A, US3137518 A, US3011209 A, JP57045420 A2, JP57045419 A2, JP57041209 A2, JP56105079 A2, EP0100455 A1, EP0045139 A1, DE3127998 A1, DE2854204 A1, DE1078454 A,

Forward Citations: WO17162994, US9340234, US8496275, US7520557, US7104588, US7017979, US6955389, US6899374, US6840567, US6827387, US6616214, US6447054, US6382705, US6328374, US6234565, US6213535, US6196618, US6059352, US5782523, US5605363, US5398988, US5117665, US4917412, US4896906, US2015360547, US2009235767, US2006055184, US2006000145, US2005140145, US2005052045, US2004262945, US2004207227, US2004094991, GB2325653, GB2325653, GB2139273, FR3049260, FR2849094, EP2803560, EP2803560, EP0540053, EP0342915, EP0342915, EP0099116, CN104039633, CN104039633, CN103660874,

Abstract:
Source: US4561690A A vehicle body structure which can provide a wider passenger compartment than conventional sedan–type vehicles. The vehicle has a substantially flat floor which provides extra space and a single integral door opening on each side. The door opening is closed by a front swinging door and a rear sliding door. The rear sliding door support mechanism is adapted to allow the floor to be positioned lower than in conventional van–type vehicles. The front swinging door has upper and lower door lock mechanisms for locking the front door when closed. The rear sliding door support mechanism includes upper and lower guide rails which are respectively adapted to reinforce a roof side rail and a side sill comprising part of a vehicle framework to provide sufficient resistance to bending stresses applied to the framework, thus allowing a center–pillarless body structure.

0) US4496186A – SEALING STRUCTURE FOR AN AUTOMOTIVE VEHICLE

40) Family number: 4646831 (US4496186A) © PatBase

Title: SEALING STRUCTURE FOR AN AUTOMOTIVE VEHICLE

Priority: JP19820145354 19820821

Family:

Publication number	Publication date	Application number	Application date
DE3382246 D1	19910516	DE19833382246	19830810
EP0102556 A2	19840314	EP19830107912	19830810
EP0102556 A3	19870513	EP19830107912	19830810
EP0102556 B1	19910410	EP19830107912	19830810
JP59034954 A2	19840225	JP19820145354	19820821
US4496186 A	19850129	US19830524349	19830818

Probable Assignee: NISSAN MOTOR CO

Assignee(s):(std)**:** NISSAN MOTOR ; NISSAN SHATAI CO

Assignee(s): NISSAN SHATAI CO COMPANY LTD ; NISSAN MOTOR COMPANY LIMITED ; NISSAN SHATAI COMPANY LIMITED ; NITSUSAN SHIYATAI KK ; NISSAN SHATAI CO LTD ; NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN MOTOR CO LTD YOKOHAMA KANAGAWA JP ; NISSAN JIDOSHA KK

Inventor(s):(std)**:** KAWAMO KAZUNORI ; KAWAOMO KAZUNORI ; TSUCHIYA YOSHIMASA ; TUCHIYA YOSHIMASA ; CHIKARAISHI TAKAYO

Inventor(s): TUCHIYA YOSHIMASA EBINA SHI KANAGAWA KEN JP ; KAWAMO KAZUNORI ATSUGI SHI JP ; CHIKARAISHI TAKAYO KAWASAKI SHI KANAGAWA KEN JP

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J10/00 B60J10/08 B60R13/06 B62D25/04 E06B7/23 (Advanced/Invention); B60J10/00 B60R13/06 B62D25/04 E06B7/22 (Core/Invention)

International class (IPC 1–7)**:** B60J5/02 B60J5/04 B60R13/06 B62D25/04 E06B7/22

CPC: B60J10/85 B60J10/24 B60J10/32

European class: B60J10/00D5 B60J10/00G1 B60J10/08B2

US class: 296/146 296/146.9 296/93 49/383 49/490.1 49/491 49/495.1 49/498.1

Classification Explorer

Cited documents: US4433867 A, US4348443 A, US4304435 A, US4026598 A, US3666316 A, US3665646 A, JP59004353 B4, JP57030640 A2, JP57030640, JP56073616 B4, JP55002737 B4, FR2520467 A1, FR2479114 A1, FR2227166 A1, FR1572985 A, DE2818225 A1, DE2551240 A1,

Forward Citations: WO07051937, USD488243, USD474845, USD460563, US9745798, US9617112, US8950797, US7578098, US7434870, US6968649, US6393766, US5797644, US5775768, US5127193, US5123693, US5056850, US5029931, US5020277, US4976068, US4907838, US4888919, US4787668, US4729593, US4678227, US4653801, US4614061, US4549761, US2013187404, US2012304543, US2008007083, US2006042170, US2003005644, JP63110142, JP60175755, JP5041985, GB2359320, GB2359320, GB2359320, GB2296522, GB2296522, GB2170848, FR2903370, FR2892695, FR2694523, FR2616190, FR2595782, EP0582499, EP0270942, EP0172144, DE3805931, DE3706039, DE3545832, AU611986,

Abstract:
Source: US4496186A A sealing structure for an automotive vehicle prevents turbulent air flow around a front pillar and thus reduces noise due to wind. This seal is provided by a weatherstrip which also seals the space between the front pillar and a front door against water. The weatherstrip is provided with an extension extending towards the opening of the above space to close same. The extension lies approximately flush with the outer surfaces of the front pillar and the front door to form a substantially continuous external surface. This continuous external surface around the front pillar improves the aerodynamics of the vehicle.

0) US4631865A – CONSTRUCTION OF DOOR IN MOTOR VEHICLE

41) Family number: 5175887 (US4631865A) © PatBase

Title: CONSTRUCTION OF DOOR IN MOTOR VEHICLE

Priority: JP19820198034 19821111 JP19830004821 19830114

Family:

Publication number	Publication date	Application number	Application date
DE3380485 D1	19891005	DE19833380485	19831110
EP0109058 A2	19840523	EP19830111239	19831110
EP0109058 A3	19860806	EP19830111239	19831110
EP0109058 B1	19890830	EP19830111239	19831110
JP59089221 A2	19840523	JP19820198034	19821111
JP59130727 A2	19840727	JP19830004821	19830114
US4631865 A	19861230	US19830550045	19831109

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** HIRAMASTU EIJI ; SHIRAISHI DAIICHI ; MOTONAMI MASANAO ; HIRAMATSU EIJI

Designated states: DE FR GB

International class(IPC 8–9)**:** B60J1/17 B60J10/06 B60J10/08 B60J10/79 B60J5/04 E06B7/23 (Advanced/Invention); B60J1/17 B60J10/00 B60J10/02 B60J5/04 E06B7/22 (Core/Invention)

International class(IPC 1–7)**:** B60J1/17 B60J5/04 E05F11/38 E06B3/70 E06B7/22

CPC: B60J10/79

European class: B60J10/06

US class: 49/374 49/440

Classification Explorer

Cited documents: US4494337 A, US4490942 A, US4483100 A, US4240227 A, US2024773 A, JP56158321 A2, GB983052 A, GB2078839 A1, EP0040588 A1,

Forward Citations: US8650802, US6880293, US6143397, US5398452, US5217786, US5048232, US4903436, US4845894, US4827671, US4800638, US2012025564, US2006037249, US2006021282, US2004194390, JP61188223, JP60192923, EP0146186,

Abstract:
Source: US4631865A A window assembly for a motor vehicle door wherein the outer surface of the window and the outer surface of the door frame are substantially flush with each other. The assembly includes a window pane with at least one bracket secured to the outer surface of an end of the pane and projecting outwardly from that end in a direction substantially parallel to the surface of the glass. The assembly also includes a door frame having a vertically positioned guide portion with a guide groove open in the direction of the window pane. A slide piece is secured to the end of the bracket opposite the end secured to the pane and is slidably engaged within the guide groove so that the outer surface of the guide portion is substantially flush with the window pane and the window pane is guided in the vertical direction. Finally, there is a weather strip between the window pane and the door frame which is positioned at the vehicle compartment side of the guide portion.

0) EP0139537A2 – A CONTAINER WITH SLIDABLE DOORS. CONTAINER MIT...

42) Family number: 2121765 (EP0139537A2) © PatBase

Title: A CONTAINER WITH SLIDABLE DOORS.

Priority: GB19830028068 19831020

Family:

Publication number	Publication date	Application number	Application date
AU198434544 A1	19850426	AU19840034544	19841022
EP0139537 A2	19850502	EP19840307267	19841022
EP0139537 A3	19861217	EP19840307267	19841022
GB8328068 A0	19831123	GB19830028068	19831020

Probable Assignee: LAWRENCE DAVID LTD

Assignee(s):(std)**:** LAWRENCE DAVID LTD

Inventor(s):(std)**:** MARSHALL LAWRENCE

Inventor(s): LAWRENCE MARSHALL

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: AT BE CH DE FR GB IT LI NL SE

International class (IPC 8–9)**:** B65D88/12 B65D90/00 (Advanced/Invention); B65D88/00 B65D90/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/06 B65D88/12 B65D90/00 B65D90/62

CPC: B65D88/121 B65D88/127 B65D90/008

European class: B65D88/12A B65D88/12C B65D90/00F

Classification Explorer

Cited documents: FR2311707 A1, FR2023497 A1, FR1595713 A, DE2019632 A1,

Forward Citations: WO9310023, WO0125118, US6988781, FR2785883, EP0893366, EP0893366, EP0541832, CN103538826,

Abstract:
Source: EP0139537A2 A transportable freight container having an elongate body (1) having a cant rail (3) and side rave (5) extending along each side of the container. The cant rail and side rave each have tracks (15,18,34,46) between which side doors (6,7) of the container are suspended. The track is straight over substantially the whole length of the container and in a closed position the doors lie flush with each other. In an open position, allowing loading of the container one of the end doors (6) is arranged to overlie another one of the doors (7). This end door (6) is movable past the other doors along the whole length of the side of the container. A rod (53) is pivotally mounted on the one door (6) in the region of one edge (6c) and is provided with arms at opposite ends to interengage with the tracks of the cant rail and side rave. The rod (53) is rotatable by a handle (52) operated manually and such rotation facilitates movement of the edge of the door to which the rod is connected in a lateral direction relative to the longitudinally extending cant rail and side rave. Such construction permits maximum loading space within the container and safely prevents a load spilling out of the container when the door is opened or alternatively jamming the doors in their closed position.

0) US4700983A – CONSTRUCTION OF BODY OF MOTOR VEHICLE

43) Family number: 17139617 (US4700983A) © PatBase

Title: CONSTRUCTION OF BODY OF MOTOR VEHICLE

Priority: JP19840167012U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575760 D1	19900308	DE19853575760	19851031
EP0180234 A2	19860507	EP19850113890	19851031
EP0180234 A3	19861105	EP19850113890	19851031
EP0180234 B1	19900131	EP19850113890	19851031
JP1943397 Y	19930716	JP19840167012U	19841102
JP4011856 Y2	19920324	JP19840167012U	19841102
JP61081417 U1	19860530	JP19840167012U	19841102
US4700983 A	19871020	US19850793154	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std): TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 J ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN KK ; TOYOTA JIDOSHA K K

Inventor(s):(std): KINAGA EIICHI ; SHIRAISHI DAIICHI ; SHIRAISHI DIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class (IPC 8–9): B60J5/04 E05D3/06 E05D3/10 (Advanced/Invention); B60J5/04 E05D3/00 (Core/Invention)

International class (IPC 1–7): B60J5/04 E05D15/32 E05D3/06 E05D3/10 E05F1/08

CPC: Y10T16/53833 Y10T16/5389 Y10T16/5476 B60J5/0431 E05D3/10 E05D3/147 E05Y2900/531

European class: B60J5/04E2B12 E05D3/10 E05D3/14V2 P05Y900/531

US class: 16/288 16/308 16/370 296/146 296/146.11

Classification Explorer

Cited documents: US4502182 A, US4474402 A, US3969789 A, US3889316 A, US3758990 A, US3427682 A, US3339226 A, US3206186 A, US2948917 A, US2008256 A, JP60064122 U1, JP60064122 U, JP60031474 U1, JP60031474 U, JP58036767 U1, JP58036767 U, JP57082560 U1, JP57082560 U, JP57046014 U1, JP57046014 U, GB462033 A, GB447734 A, FR2542796 A1, FR1285896 A, EP0140245 A2, EP0136714 A2, EP0135929 A2, EP0135114 A2, EP0126438 A2, DE3223938 A1, DE1075958 B,

Forward Citations: US8347554, US7070225, US6938941, US6647592, US6149222, US4932101, US2011185637, US2005093335, US2005057063, FR2715894, EP2031166, EP1489255,

Abstract:
Source: US4700983A A door hinge mechanism and associated body of a motor vehicle is disclosed. The hinge mechanism has rotary center shafts supported on an end panel on the pivoting (rocking proximal) end of a side door, and rotary center shafts supported on a surface on the vehicle body adjacent the end panel. A first arm is rotatably connected at its opposite ends to a rotary center shaft on the vehicle body and to another rotary center shaft on the end panel of the door. A second arm is rotatably connected at its opposite ends to a rotary center shaft on the vehicle body and to a rotary center shaft on the door. A forward end corner portion of the end panel of the side door is raised forward on the compartment side of the vehicle body from the rear surface of the end panel where the side door hinge is secured. The raised portion of this configuration is attached to a weather strip mount. A weather strip attached thereto, comes into pressed contact with a weather strip contact surface on the vehicle body when the side door is fully closed.

0) US4713862A – SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

44) Family number: 19141652 (US4713862A) © PatBase

Title: SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

Priority: JP19840167005U 19841102 JP19840167006U 19841102 JP19840167009U 19841102 JP19840167011U 19841102 JP19840231679 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575758 D1	19900308	DE19853575758	19851031
EP0180232 A2	19860507	EP19850113886	19851031
EP0180232 A3	19861022	EP19850113886	19851031
EP0180232 B1	19900131	EP19850113886	19851031
JP1728396 C3	19930119	JP19840231679	19841102
JP1941439 Y	19930716	JP19840167005U	19841102
JP1941440 Y	19930716	JP19840167006U	19841102
JP1941443 Y	19930716	JP19840167011U	19841102
JP4009411 Y2	19920309	JP19840167005U	19841102
JP4009413 Y2	19920309	JP19840167011U	19841102
JP4009414 Y2	19920309	JP19840167006U	19841102
JP4015877 B4	19920319	JP19840231679	19841102
JP61080980 U1	19860529	JP19840167005U	19841102
JP61080981 U1	19860529	JP19840167006U	19841102
JP61080984 U1	19860529	JP19840167009U	19841102
JP61080986 U1	19860529	JP19840167011U	19841102
JP61110618 A2	19860528	JP19840231679	19841102
US4713862 A	19871222	US19850793246	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 J ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN KK ; TOYOTA JIDOSHA K K ; TOYOTA JIDOSHA K K TOYOTA AICHI JP

Inventor(s):(std)**:** SHIRAISHI DAIICHI ; KINAGA HIDEKAZU ; SHIRAISHI DIICHI ; KINAGA EIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/04 E05D11/00 E05D3/06 E05D3/10 E05D5/02 E05D7/00 (Advanced/Invention); B60J5/04 E05D11/00 E05D3/00 E05D5/00 E05D7/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/04 E05D11/00 E05D15/32 E05D3/06 E05D3/10 E05D5/02 E05D7/00

CPC: Y10T16/522 Y10T16/5476 E05D3/147 E05D3/10 E05Y2900/531

European class: E05D3/10 E05D3/14V2 P05Y900/531

US class: 16/223 16/370 296/146 296/146.11

Classification Explorer

Cited documents: US4502182 A, US4474402 A, US4116514 A, US3969789 A, US3889316 A, US3758990 A, US3427682 A, US3339226 A, US3206186 A, US2008256 A, JP60064122 A2, JP60031474 A2, JP58036767 A2, JP57046014 A2, JP55101263 A2, GB462033 A, GB447734 A, FR2542796 A1, FR1285896 A, EP0140245 A2, EP0136714 A2, EP0135929 A2, EP0135114 A2, EP0126438 A2, DE3223938 A1, DE1075958 B,

Forward Citations: USRE41143, US9777522, US9562383, US9562382, US8307512, US7032953, US6942277, US6817063, US6647592, US6629337, US6149222, US5611114,

Abstract:
Source: US4713862A A quadric rotary link device for a side door hinge mechanism in a motor vehicle is disclosed. The device has first and second arms connected by rotary center shafts to a vehicle body and a side door. The hinge mechanism has a door side base and a body side base formed long in the vertical direction. The door side base is secured to the rocking proximal end of the side door. The body side base is secured to a vertical surface of the vehicle body. There are four top rotary center shafts and four bottom rotary center shafts supported at two pairs of positions in the top and bottom of the door side base and the body side base, respectively.

0) US4665586A – SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

45) Family number: 16224013 (US4665586A) © PatBase

Title: SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

Priority: JP19840167001U 19841102 JP19840167007U 19841102 JP19840167008U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575759 D1	19900308	DE19853575759	19851031
EP0180233 A2	19860507	EP19850113887	19851031
EP0180233 A3	19861029	EP19850113887	19851031
EP0180233 B1	19900131	EP19850113887	19851031
JP1941441 Y	19930716	JP19840167007U	19841102
JP1961056 Y	19931126	JP19840167001U	19841102
JP1961057 Y	19931126	JP19840167008U	19841102
JP4009419 Y2	19920309	JP19840167007U	19841102
JP4028378 Y2	19920709	JP19840167001U	19841102
JP4028379 Y2	19920709	JP19840167008U	19841102
JP61080976 U1	19860529	JP19840167001U	19841102
JP61080982 U1	19860529	JP19840167007U	19841102
JP61080983 U1	19860529	JP19840167008U	19841102
US4665586 A	19870519	US19850793230	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA KABUSIKI KAISHA ; TOYOTA JIDOSHA KABUSIKI KAISHA 1 TOYOTA CHO TOYOTA ; TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA KABUSIKI KAISHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN ; TOYOTA JIDOSHA K K ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA KABUSHIKI KAISHA

Inventor(s):(std)**:** KINAGA EIICHI ; SHIRAISHI DAIICHI ; SHIRAISHI DIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/04 E05C17/34 E05D11/10 E05D3/06 E05D3/10 (Advanced/Invention); E05D15/32 (Advanced/Non–invention); E05D11/00 E05D3/00 (Core/Invention); E05D15/00 (Core/Non–invention)

International class (IPC 1–7)**:** B60J5/04 E05C17/28 E05D11/10 E05D3/06 E05D3/10

CPC: Y10T16/54 Y10T16/5476 Y10T16/5478 E05D3/147 E05D3/10 E05D11/1042 E05D15/32 E05Y2900/531

European class: E05D11/10E2 E05D3/10 E05D3/14V2 P05D15/32 P05Y900/531

US class: 16/319 16/370 16/371 248/74.3

Classification Explorer

Cited documents: US3969789 A, US3339226 A, US3206186 A, US2008256 A, JP60064122 A2, JP60031474 A2, JP59167008 A2, JP59167001 A2, JP57046014 A2, JP55101263 A2, GB462033 A, FR2542796 A1, DE3223938 A1,

Forward Citations: WO0102682, US6817065, US6606763, US2004189164, EP0596403, DE4321797, DE19930328, DE19930322,

Abstract:
Source: US4665586A A motor vehicle is provided with a side door hinge mechanism having rotary center shafts, two rotatable arms and a door check mechanism. The rotary center shafts are supported at two positions on the rocking proximal end of the side door and at two positions on the side of the vehicle body. The first arm is rotatably connected at its opposite ends by a rotary center shaft on the side of the vehicle body and a rotary

center shaft on the side of the door. The second arm is rotatably connected at its opposite ends to a rotary center shaft on the side of the vehicle body and a rotary center shaft on the side of the door and is in a plane parallel to and directly below the first arm. The door check mechanism is comprised of a torsion bar, a cam plate and a roller. The torsion bar is mounted to either the first or the second arm. The cam plate is mounted on a side door of the vehicle body. A roller is rotatably supported on the torsion bar and rotatably urged against the surface of the cam plate by a torsion force. A door check force is generated by lifting the surface of the cam plate.

0) US4665587A – SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

46) Family number: 17139630 (US4665587A) © PatBase

Title: SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

Priority: JP19840167003U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575175 D1	19900208	DE19853575175	19851031
EP0180235 A2	19860507	EP19850113892	19851031
EP0180235 A3	19861029	EP19850113892	19851031
EP0180235 B1	19900103	EP19850113892	19851031
JP1941437 Y	19930716	JP19840167003U	19841102
JP4009410 Y2	19920309	JP19840167003U	19841102
JP61080978 U1	19860529	JP19840167003U	19841102
US4665587 A	19870519	US19850793247	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN KK ; TOYOTA JIDOSA KK ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** KINAGA EIICHI ; SHIRAISHI DAIICHI ; SHIRAISHI DIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class(IPC 8–9)**:** B60J5/04 E05D3/06 E05D3/10 (Advanced/Invention); B60J5/04 E05D3/00 (Core/Invention)

International class(IPC 1–7)**:** B60J5/04 E05D3/06 E05D3/10

CPC: Y10T16/54 Y10T16/5476 Y10T16/5478 E05D3/10

European class: E05D3/10

US class: 16/319 16/370 16/371

Classification Explorer

Cited documents: US3969789 A, US3339226 A, US3206186 A, US2008256 A, GB462033 A, FR2542796 A1, EP0140245 A2,

Forward Citations: US6817065, US6149222, US5524323, US2017241179,

Abstract:
Source: US4665587A A light weight, rigid side door hinge mechanism for a motor vehicle is disclosed. The hinge has four top rotary center shafts, two of which are supported at two positions spaced apart from each other in a generally horizontal direction on an end of the door, and the other two at two positions on a surface on the side of the vehicle body disposed adjacent to the end of the door. Four bottom rotary center shafts are also provided: two shafts are supported at two positions on the end of the side door and two shafts are supported at the surface of the side of the vehicle body. The four bottom shafts are aligned with the four top rotary center shafts. A top control arm is rotatably connected at its opposite ends to one of the top rotary center shafts on the vehicle body and one of the top rotary center shafts on the door. A bottom control arm is rotatably connected at opposite ends to the bottom rotary center shafts aligned with the top rotary center shafts at the opposite ends of the top control arm. A vertical integral main arm is rotatably connected at its ends in the vertical and lateral directions to the remaining top rotary center shaft and the remaining bottom rotary center shaft.

0) US4716623A – SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

47) Family number: 17381947 (US4716623A) © PatBase

Title: SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

Priority: JP19840167002U 19841102 JP19840167004U 19841102 JP19840167010U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575761 D1	19900308	DE19853575761	19851031
EP0180923 A2	19860514	EP19850113891	19851031
EP0180923 A3	19861029	EP19850113891	19851031
EP0180923 B1	19900131	EP19850113891	19851031
JP1941436 Y	19930716	JP19840167002U	19841102
JP1941438 Y	19930716	JP19840167004U	19841102
JP1941442 Y	19930716	JP19840167010U	19841102
JP4009409 Y2	19920309	JP19840167002U	19841102
JP4009412 Y2	19920309	JP19840167010U	19841102
JP4009418 Y2	19920309	JP19840167004U	19841102
JP61080977 U1	19860529	JP19840167002U	19841102
JP61080979 U1	19860529	JP19840167004U	19841102
JP61080985 U1	19860529	JP19840167010U	19841102
US4716623 A	19880105	US19850793152	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA K K ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** SHIRAISHI DAIICHI ; KINAGA EIICHI ; SHIRAISHI DIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/04 E05D11/06 E05D3/06 E05D3/10 (Advanced/Invention); B60J5/04 E05D11/00 E05D3/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/04 E05D11/06 E05D3/06 E05D3/10

CPC: Y10T16/522 Y10T16/5389 Y10T16/5476 Y10T16/5478 E05D3/147 E05D3/10 E05Y2900/531

European class: E05D3/10 E05D3/14V2 P05Y900/531

US class: 16/223 16/308 16/370 16/371 296/146 296/146.11

Classification Explorer

Cited documents: US4502182 A, US4474402 A, US3969789 A, US3889316 A, US3758990 A, US3427682 A, US3339226 A, US3206186 A, US2948917 A, US2008256 A, JP60064122 U1, JP60064122 U, JP60031474 U1, JP60031474 U, JP58036767 U1, JP58036767 U, JP57046014 U1, JP57046014 U, JP55101263 A2, GB462033 A, GB447734 A, FR2542796 A1, FR1285846 A, EP0140245 A2, EP0136714 A2, EP0135429 A1, EP0135114 A2, EP0126438 A2, DE3223938 A1, DE1075958 B,

Forward Citations: WO15032476, US8307512, US6974177, US6844497, US6817063, US6647592, US6382705, US6149222, US6052870, US5611114, US2017241179, US2010257700, US2009140551, US2005127712, US2003183411, FR2716842, DE102013014894, CN101858178, CN101858178,

Abstract:
Source: US4716623A A side door hinge mechanism for a motor vehicle includes a pair of top rotary center shafts supported on an end of the door at a top portion thereof, a pair of top rotary center shafts supported on the vehicle body, a pair of bottom rotary center shafts supported on the door, and a pair of bottom rotary center shafts

supported on the vehicle body. The bottom rotary center shafts are aligned with the top rotary center shafts. A top control arm in rotatably connected at opposite ends to one of the top rotary center shafts on the vehicle body and one of the top rotary center shafts on the door. A bottom control arm is rotatably connected at opposite ends to the bottom rotary center shafts which are aligned with the top rotary center shafts which are rotatably connected to the top control arm. A main arm is formed integrally in the vertical direction, and i rotatably connected at its end portion to the remaining top and bottom rotary center shafts. The main arm includes a large diameter pipe portion, a top arm and a bottom arm.

0) US4700984A – CONSTRUCTION OF BODY OF MOTOR VEHICLE

48) Family number: 17139986 (US4700984A) © PatBase

Title: CONSTRUCTION OF BODY OF MOTOR VEHICLE

Priority: JP19840167013U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3577462 D1	19910523	DE19853577462	19851031
EP0180922 A2	19860514	EP19850113889	19851031
EP0180922 A3	19861203	EP19850113889	19851031
EP0180922 B1	19900502	EP19850113889	19851031
JP1943398 Y	19930716	JP19840167013U	19841102
JP4011857 Y2	19920324	JP19840167013U	19841102
JP61081418 U1	19860530	JP19840167013U	19841102
US4700984 A	19871020	US19850793150	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 J ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN KK ; TOYOTA JIDOSHA K K ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA KABUSHIKI KAISHA

Inventor(s):(std)**:** SHIRAISHI DIICHI ; SHIRAISHI DAIICHI ; KINAGA EIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class(IPC 8–9)**:** B60J5/04 E05D3/06 E05D3/10 (Advanced/Invention); B60J5/04 E05D3/00 (Core/Invention)

International class(IPC 1–7)**:** B60J5/04 E05D15/32 E05D3/06 E05D3/10 E05F1/08

CPC: Y10T16/53833 Y10T16/5389 Y10T16/5476 E05D3/10 E05D3/147 E05Y2900/531

European class: E05D3/10 E05D3/14V2 P05Y900/531

US class: 16/288 16/308 16/370 296/146 296/146.11

Classification Explorer

Cited documents: US4502182 A, US4474402 A, US3969789 A, US3889316 A, US3758990 A, US3427682 A, US3339226 A, US3206186 A, US2948917 A, US2008256 A, JP60064122 U1, JP60064122 U, JP60031474 U1, JP60031474 U, JP58036767 U1, JP58036767 U, JP58036766 U1, JP58036766 U, JP57046014 U1, JP57046014 U, JP55101263 A2, GB462033 A, GB447734 A, FR2542796 A1, FR1285896 A, EP0140245 A2, EP0136714 A2, EP0135929 A2, EP0135114 A2, EP0126438 A2, DE3223938 A1, DE1075958 B,

Forward Citations: US9777522, US9562383, US9562382, US8413382, US8347554, US7150492, US7032953, US6817063, US6386621, US6196618, US6175991, US6149222, US5611114, US2011185637, US2011126469, US2005212325, US2005184556,

Abstract:
Source: US4700984A A door hinge mechanism for a motor vehicle is disclosed. The hinge has four rotary center shafts, two of which are supported at positions on an end of the side door, and two others at two positions on a surface on the side of the vehicle body disposed adjacent to the end of the door. A first arm is rotatably connected at its opposite ends to one of the rotary center shafts on the vehicle body and one of the rotary center shafts on the door. A second arm is rotatably connected at its opposite ends to the remaining rotary center shafts. A rear end portion of a front side fender is located at a position adjacent to and in front of the forward end of the side door. A portion of the end face of the side door is disposed outwardly in the widthwise direction and extended forward from the end face of the body of the vehicle to form an extension for covering the outer surface of the side door hinge mechanism.

0) DE3729643A1 – FOLDING WALL FOR VEHICLE BODIES WITH ANTI–WEAR ...

49) Family number: 7297272 (DE3729643A1) © PatBase

Title: Folding wall for vehicle bodies with anti–wear protection

Priority: DE19873729643 19870904

Family:

Publication number	Publication date	Application number	Application date
DE3729643 A1	19890323	DE19873729643	19870904

Probable Assignee: GROSS ALUMINIUM GMBH

Assignee(s):(std)**:** GROSS ALUMINIUM GMBH

Inventor(s):(std)**:** GROSS GERHARD H DIPL ING

Inventor(s): H ; H DIPL ING GROSS GERHARD

International class (IPC 8–9)**:** B60J5/10 B62D33/023 (Advanced/Invention); B60J5/10 B62D33/02 (Core/Invention)

International class (IPC 1–7)**:** B62D33/02 B62D33/04

CPC: B60J5/108 B62D33/023

European class: B60J5/10B B60J5/10F B62D33/023

Classification Explorer

Abstract:
Source: DE3729643A1 A folding wall for vehicle bodies has a peripheral profile which in the closed state of the folding wall rests against a stop via a shoulder. The stop is part of the vehicle body and can, for example, be a rung. In order to prevent metallic contact and thus wear, in particular of the peripheral profile, which is usually produced from a lightweight metal extruded profile, a guide which is preferably dovetail–shaped is provided on the shoulder. A profile consisting of abrasion–resistant plastic, for example polytetrafluoroethylene, can be inserted into this guide. A metallic contact between the peripheral profile and the corresponding stop is thus avoided. In this way, excessive wear on the shoulder of the peripheral profile is avoided.

0) US5054847A – FLEXIBLE TOP APPARATUS FOR A VEHICLE

50) Family number: 4282732 (US5054847A) © PatBase

Title: Flexible top apparatus for a vehicle

Priority: JP19880153291 19880620 JP19880162045 19880628 JP19890137016 19890529

Family:

Publication number	Publication date	Application number	Application date
DE68909322 D1	19931028	DE19896009322	19890620
DE68909322 T2	19940428	DE19896009322T	19890620
EP0347859 A2	19891227	EP19890111239	19890620
EP0347859 A3	19910403	EP19890111239	19890620
EP0347859 B1	19930922	EP19890111239	19890620
JP2011416 A2	19900116	JP19880162045	19880628
JP2077324 A2	19900316	JP19890137016	19890529
KR920007237 B1	19920828	KR19890008496	19890620
US5054847 A	19911008	US19890367749	19890619

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR A CORP OF JAPAN CORP ; MAZDA MOTOR CO ; MAZDA MOTOR CO LTD ; MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP

Inventor(s):(std)**:** ASO SEIICHI ; ASOH SEIICHI ; FUKUDA HITOKI ; FUKUDA KAZUKI ; KOHNO SHIGEFUMI ; KUBOTA SATOSHI ; MURAKAMI FUMIYUKI ; TAGUCHI TOMOO ; USHIJIMA KAZUHIRO ; USHIJIMA KATSUHIRO ; TAKANO SHIGEFUMI ; KONO SHIGEFUMI ; FUKUDA HIROKI ; ASOU SEIICHI ; USHIJIMA KAJUHIRO C O MAZDA MO ; TAGUCHI TOMOO C O MAZDA MOTOR ; MURAKAMI FUMIYUKI C O MAZDA MO ; KUBOTA SATOSHI C O MAZDA MOTOR ; KOHNO SHIGEFUMI C O MAZDA MOTO ; FUKUDA HITOKI C O MAZDA MOTOR ; ASOH SEIICHI C O MAZDA MOTOR C ; USHIJIMA KAJUHIRO

Inventor(s): USHIJIMA KAJUHIRO C O MAZDA MOTOR CORPORATION ; ASOH SEIICHI C O MAZDA MOTOR CORPORATION AKI... ; ASOH SEIICHI C O MAZDA MOTOR CORPORATION AKI GUN H ; KOHNO SHIGEFUMI C O MAZDA MOTOR CORPORATION... ; KOHNO SHIGEFUMI C O MAZDA MOTOR CORPORATION AKI GU ; FUKUDA HITOKI C O MAZDA MOTOR CORPORATION AKI... ; FUKUDA HITOKI C O MAZDA MOTOR CORPORATION AKI GUN ; TAGUCHI TOMOO C O MAZDA MOTOR CORPORATION AKI... ; TAGUCHI TOMOO C O MAZDA MOTOR CORPORATION AKI GUN ; MURAKAMI FUMIYUKI C O MAZDA MOTOR CORPORATIO... ; MURAKAMI FUMIYUKI C O MAZDA MOTOR CORPORATIO AKI G ; KUBOTA SATOSHI C O MAZDA MOTOR CORPORATION AKI... ; KUBOTA SATOSHI C O MAZDA MOTOR CORPORATION AKI GUN ; USHIJIMA KAJUHIRO C O MAZDA MOTOR CORPORATIO... ; USHIJIMA KAJUHIRO C O MAZDA MOTOR CORPORATIO AKI K ; TAGUCHI TOMOO C O MAZDA MOTOR CORPORATION ; MURAKAMI FUMIYUKI C O MAZDA MOTOR CORPORATION ; KUBOTA SATOSHI C O MAZDA MOTOR CORPORATION ; FUKUDA HITOKI C O MAZDA MOTOR CORPORATION ; ASOH SEIICHI C O MAZDA MOTOR CORPORATION

Designated states: DE FR GB

International class (IPC 8–9): B60J7/06 B60J7/12 B60J7/20 (Advanced/Invention); B60J7/00 B60J7/02 (Core/Invention)

International class (IPC 1–7): B60J7/06 B60J7/12 B60J7/20

CPC: B60J7/061 B60J7/202

European class: B60J7/06B B60J7/20 B60J7/20C

US class: 296/124 296/219

Classification Explorer

Cited documents: US3823977 A, US3357738 A, US3338624 A, US2985483 A, US2845299 A, US2785922 A, US2770489 A, US2747928 A, US2694598 A, US1922545 A, JP63082883 A2,

JP62103621 B4, JP61247515 B4, JP61030525 B4, IT475695 A, IT439249 A, GB444907 A, FR635755 A,

Forward Citations: WO9812061, WO0238406, US8657360, US7334835, US7320499, US7172242, US7063372, US6926354, US6676192, US5310241, US2008174153, US2007096510, US2006043775, US2006012223, US2004051347, US2004021345, FR2987334, FR2979292, FR2821303, EP2631159, EP2468548, EP1808321, EP1808321, EP1281550, EP1078799, DE10247556, DE102010056246, DE102008045573, DE102008045573, DE102005041743, DE102005041743, DE10138370, DE10138370,

Abstract:
Source: US5054847A A roof panel connected to the vehicle body through at least a pair of left−hand and right−hand front pillars and a pair of left−hand and right−hand rear pillars is provided with a wide open roof panel opening enclosed by a front header, a pair of left−hand and right−hand roof side rails and a rear header. To the pair of left−hand and right−hand rear pillars and the rear header is fixed a rear window glass panel. In order to close the roof panel opening, there is provided a flexible top foldable or windable. When the roof panel opening is in a closed state, a forward end portion of the flexible top is in abutment with said front header, its left−hand and right−hand side end portions are abutted with the left−hand and right−hand roof side rails, and its rearward end portion is in abutment with the rear header. The flexible top is displaceable along the roof side rails and the rear pillars. When the roof panel opening is in an open state, the flexible top is housed or accommodated in a folded or wound state at a position rearward of the rear window glass panel and nearby its lower end portion.

0) US5052747A – FLEXIBLE TOP APPARATUS OF A VEHICLE

51) Family number: 4783380 (US5052747A) © PatBase

Title: Flexible top apparatus of a vehicle

Priority: JP19880191662 19880730 US19890385730 19890727

Family:

Publication number	Publication date	Application number	Application date
DE3925150 A1	19900201	DE19893925150	19890728
DE3925150 C2	19930603	DE19893925150	19890728
JP1979962 C3	19951017	JP19880191662	19880730
JP2041925 A2	19900213	JP19880191662	19880730
JP6104418 B4	19941221	JP19880191662	19880730
KR930003580 B1	19930508	KR19890010598	19890726
US5052747 A	19911001	US19910676464	19910326

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP ; MAZDA CO LTD

Inventor(s):(std)**:** KUBOTA SATOSHI ; YOKOUCHI TAKAHITO

Inventor(s): YOKOUCHI TAKAHITO HIROSHIMA JP

International class (IPC 8–9): B60J7/06 B60J7/12 (Advanced/Invention); B60J7/02 B60J7/08 (Core/Invention)

International class (IPC 1–7): B06J7/12 B60J7/06 B60J7/12

CPC: B60J7/064

European class: B60J7/06B4

US class: 296/107 296/107.09 296/107.16 296/219

Classification Explorer

Cited documents: US4830428 A, US4572570 A, US2694598 A, US1860463 A, JP63162326 A2, JP63061629 A2, JP62031516 A2, JP62026118 A2, JP16232688 A2, GB637871 A, GB1315364 A, DE830001 A, DE2032144 A1,

Forward Citations: WO07093155, WO04037583, US9283833, US7938483, US7922232, US7896430, US7828364, US7320499, US7172242, US6793267, US6676192, US6497448, US6416121, US6398296, US6161893, US6055953, US6015184, US5941592, US5572967, US5242210, US2015165878, US2008290696, US2008231071, US2008185877, US2007096510, US2006012223, US2003038501, JP2013540648, JP2001105877, JP2001030766, FR2921870, FR2810590, FR2766429, EP1554147, EP1500541, EP1167096, EP1080966, DE4314717, DE19638846, DE19638846, DE19616971, DE19604855,

Abstract:
Source: US5052747A In a roof panel connected to a vehicle body through at least a pair of left−hand and right−hand front pillars and a pair of left−hand and right−hand rear pillars, there is formed a roof opening (3) large in size in such a manner as leaving a front header, a pair of left−hand and right−hand roof side rails, and a rear header and being surrounded by said four members. A foldable or windable flexible top having a size as substantially large as the roof opening is provided. The flexible top is disposed to selectively take a first posture in which the roof opening is closed and a second posture in which it is contracted in a longitudinal direction of the body and placed in a contracted state, i.e., in a folded or wound state, at a position nearby said rear header. The flexible top in such a contracted state is guided by a guiding means and transferred between the second posture and a third posture located nearby a lower end portion of the rear window glass panel in a spaced relationship away from and without contact with the rear window glass panel and the rear pillars.

0) US5018784A – FLEXIBLE TOP APPARATUS OF A VEHICLE

52) Family number: 29584815 (US5018784A) © PatBase

Title: Flexible top apparatus of a vehicle

Priority: JP19880115562U 19880831 JP19880191605 19880730 JP19880218969 19880831

Family:

Publication number	Publication date	Application number	Application date
DE68910038 D1	19931125	DE19896010038	19890731
DE68910038 T2	19940505	DE19896010038T	19890731
EP0353695 A2	19900207	EP19890114128	19890731
EP0353695 A3	19910410	EP19890114128	19890731
EP0353695 B1	19931020	EP19890114128	19890731
JP1970897 C3	19950918	JP19880191605	19880730
JP1972456 C3	19950927	JP19880218969	19880831
JP2035826 U1	19900308	JP19880115562U	19880831
JP2041924 A2	19900213	JP19880191605	19880730
JP2060270 Y	19960326	JP19880115562U	19880831
JP2068220 A2	19900307	JP19880218969	19880831
JP6030511 Y2	19940817	JP19880115562U	19880831
JP6104417 B4	19941221	JP19880191605	19880730
JP6104419 B4	19941221	JP19880218969	19880831
KR930000747 B1	19930130	KR19890010794	19890729
US5018784 A	19910528	US19890386734	19890731

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP

Inventor(s):(std)**:** MATSUMOTO KENJI ; ODOI KOZO ; YOKOUCHI TAKAHITO ; OTOI KOJO ; OODOI KOUZOU

Inventor(s): YOKOUCHI TAKAHITO FUCHU CHO AKI GUN HIROSHIMA KEN ; ODOI KOZO FUCHU CHO AKI GUN HIROSHIMA KEN JP ; MATSUMOTO KENJI FUCHU CHO AKI GUN HIROSHIMA KEN JP ; YOKOUCHI TAKAHITO FUCHU CHO AKI GUN HIROSHIMA...

Designated states: DE FR GB

International class (IPC 8–9): B60J7/047 B60J7/06 B60J7/12 B60J7/185 B60J7/20 (Advanced/Invention); B60J7/00 B60J7/02 B60J7/04 B60J7/08 (Core/Invention)

International class (IPC 1–7): B60J7/06 B60J7/12

CPC: B60J7/047 B60J7/061 B60J7/201

European class: B60J7/047 B60J7/06B B60J7/20B

US class: 296/219 296/223 296/224

Classification Explorer

Cited documents: US2964598 A, JP63162326 A2, GB444907 A, DE3816977 A1, CH149292 A,

Forward Citations: WO9425301, WO07093155, WO0114157, US9522591, US9283833, US7896430, US7320499, US6942286, US6428093, US6398296, US6288511, US6246199, US6114819, US6012767, US5971473, US5825147, US5765908, US5470126, US5451849, US5242210, US5190007, US2015165878, US2012161464, US2007096510, US2007024080, JP4558761, JP4534236, JP4243480, JP2011168275, JP2009096268, JP2007269318, JP2004513017, FR2928873, FR2898858, FR2797816, FR2797814, FR2797813, FR2679495, ES2153741, EP2103467, EP1500541, EP1123220, EP1078799, EP1063112, DE19604855, DE19531074,

Abstract:
Source: US5018784A In a roof panel connected to a vehicle body through at least a pair of left−hand and right−hand front pillars and a pair of left−hand and right−hand rear pillars, there is formed a roof opening large in size in such a manner as leaving a front header, a pair of left−hand and right−hand roof side rails, and a rear header and being surrounded by said four members. A foldable flexible top having a size as substantially large as the roof opening is provided. The flexible top is disposed to selectively take a first posture in which the roof opening is closed and a second posture in which it is contracted in a longitudinal direction of the body and placed in a contracted state, i.e., in a folded state, at a position nearby said rear header. Underneath the flexible top in the second posture, a board member supporting the flexible top is disposed, and the board member is movable between the second posture and a third posture rearward of the second posture by means of a guiding device consisting of a link mechanism and so on while the board member supports the flexible top. The third posture is set at a position in a vicinity of a lower end portion of the rear window glass panel.

0) US4968089A – FLEXIBLE TOP APPARATUS OF A VEHICLE

53) Family number: 4319681 (US4968089A) © PatBase

Title: Flexible top apparatus of a vehicle

Priority: JP19880327162 19881223

Family:

Publication number	Publication date	Application number	Application date
DE3942746 A1	19900628	DE19893942746	19891222
DE3942746 C2	19921224	DE19893942746	19891222
JP1971107 C3	19950927	JP19880327162	19881223
JP2171324 A2	19900703	JP19880327162	19881223
JP6104420 B4	19941221	JP19880327162	19881223
KR930000748 B1	19930130	KR19890019298	19891222
US4968089 A	19901106	US19890456161	19891222

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP

Inventor(s):(std)**:** MURAI TAKESHI ; TONEGAWA MIYUKI ; TONEGAWA YOSHIYUKI

Inventor(s): TONEGAWA MIYUKI HIROSHIMA JP

International class (IPC 8–9): B60J7/047 B60J7/057 B60J7/06 B60J7/12 B60J7/185 B60J7/20 (Advanced/Invention); B60J7/00 B60J7/02 B60J7/04 B60J7/08 (Core/Invention)

International class (IPC 1–7): B60J7/057 B60J7/06 B60J7/08 B60J7/12

CPC: B60J7/047 B60J7/0573 B60J7/061 B60J7/201

European class: B60J7/047 B60J7/057B B60J7/06B B60J7/20B

US class: 296/124 296/219 296/223 296/224

Classification Explorer

Cited documents: US4572570 A, JP63162326 A2, JP62251232 A2, JP60146723 A2, GB1315364 A, DE3439207 C2, DE3328193 C2,

Forward Citations: WO0189869, WO0119633, WO0114157, US9688121, US7465108, US7429139, US7303225, US7267496, US7111997, US7059783, US6944913, US6709172, US6709171, US6672658, US6669201, US6497448, US6375370, US6267433, US5941592, US5470126, US2016207378, US2008211905, US2008100707, US2008012941, US2007248352, US2007018788, US2006279103, US2006120714, US2005226610, US2004264954, US2004258404, US2004216276, JP2001030766, FR2798327, FR2797815, EP2147814, EP1284879, EP1123220, EP1121258, EP1063112, EP1060926, EP1060923, DE4009470, DE19604855, DE19520648,

Abstract:
Source: US4968089A A roof panel connected to the vehicle body through at least a pair of left−hand and right−hand front pillars and a pair of left−hand and right−hand rear pillars is provided with a wide open roof aperture enclosed by a front header, a pair of left−hand and right−hand roof side rails and a rear header. To the pair of left−hand and right−hand rear pillars and the rear header is fixed a rear window glass panel. In order to close the roof aperture, there is provided a flexible top which is foldable in the longitudinal direction of the body. When the roof aperture is in a closed state, a forward end portion of the flexible top is in abutment with said front header, its left−hand and right−hand side end portions are abutted with the left−hand and right−hand roof side rails, and its rearward end portion is in abutment with the rear header. The flexible top in a folded state takes a first position located over a trunk lid, while it takes a second position when it is evacuated from the first position when the trunk lid is opened.

0) US5242210A – CONTROL APPARATUS FOR OPENING OR CLOSING ROOF O...

54) Family number: 11279128 (US5242210A) © PatBase

Title: Control apparatus for opening or closing roof of a vehicle

Priority: JP19890072779 19890324 US19900497656 19900323 US19900601104 19901022 US19910772130 19911009

Family:

Publication number	Publication date	Application number	Application date
DE4009470 A1	19901115	DE19904009470	19900323
DE4009470 C2	19930218	DE19904009470	19900323
JP2249722 A2	19901005	JP19890072779	19890324
KR930006159 B1	19930708	KR19900003999	19900324
US5242210 A	19930907	US19910772130	19911009

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP ; MAZDA CO LTD

Inventor(s):(std)**:** OKADA SEICHI ; OKADA YASUHARU ; ITO KANJI ; FUJISAWA TSUKASA ; OKADA SEIJI ; KAWAUCHI NOBUE ; ITOH MIKIHARU ; FUJISAWA TAKASHI ; ITO MIKIHARU

Inventor(s): KAWAUCHI NOBUE HIROSHIMA JP

International class (IPC 8–9): B60J7/06 B60J7/12 (Advanced/Invention); B60J7/02 B60J7/08 (Core/Invention)

International class (IPC 1–7): B60J7/00 B60J7/057 B60J7/06 B60J7/08 B60J7/12 B60R16/02

CPC: B60J7/061

European class: B60J7/06B

US class: 296/219 296/223 701/49

Classification Explorer

Cited documents: US5052747 A, US5018784 A, US4700982 A, US4644235 A, US4572570 A, US3823977 A, US3357738 A, US2985483 A, JP1071323 A2, GB1315364 A, EP0353695 A2, DE3942746 A1,

Forward Citations: WO13031441, WO07093155, US9090149, US7938483, US7896430, US7527328, US7399030, US7303227, US7078640, US6672658, US6497448, US6398296, US6288511, US6246199, US6114819, US5825147, US5451849, US2012041648, US2008290697, US2008290696, US2007114818, US2007102967, US2006145518, US2006037850, US2005280293, JP2013031441, JP2001105878, JP2001030766, FR2937591, FR2904794, FR2904793, FR2766429, EP2065238, DE19731330, DE19731330,

Abstract:
Source: US5242210A A roof panel connected to a vehicle body through at least a pair of front pillars and a pair of rear pillars is provided with a large aperture on the roof with a front header and a pair of roof side rails. A rear window glass panel is fixed to the rear pillars and the rear header. A flexible top is contractible or expandable in a longitudinal direction of the vehicle and disposed so as to uncover or cover the roof aperture. When the flexible top closes the roof aperture, it is abutted at its front end portion with the front header, at its side end portions with the roof side rails, and at its rear end portion with the rear header. When the top is in a folded state, it is located in a second posture nearby the trunk lid. The top can be transferred up to its third posture in a position nearby a lower end portion of the rear window glass panel. Vertical movement of the top at least between the second and third postures can automatically be performed by a control unit in condition where the vehicle halts. The vertical movement of the top can be continued when the vehicle is shifted to its running state in the course of a transfer thereof between the second and third postures, thereby ensuring a transfer to the second posture or to the third posture.

0) US5048887A – SEALING ARRANGEMENT FOR VEHICLE BODY CLOSURE ST...

55) Family number: 4765553 (US5048887A) © PatBase

Title: SEALING ARRANGEMENT FOR VEHICLE BODY CLOSURE STRUCTURES

Priority: JP19890251879 19890929

Family:

Publication number	Publication date	Application number	Application date
DE4030171 A1	19910418	DE19904030171	19900924
JP3114940 A2	19910516	JP19890251879	19890929
KR950004303 B1	19950428	KR19900015879	19900929
US5048887 A	19910917	US19900584573	19900918

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP ; MAZDA CO ; MAZDA CO LTD

Inventor(s):(std)**:** NISHIGAMI TAKASHI ; KUNISHIMA TETUO ; KUNISHIMA TETSUO ; UEDA MINORU

Inventor(s): NISHIGAMI TAKASHI HIROSHIMA JP ; 1

International class (IPC 8–9)**:** B60J10/00 B60J10/04 B60J10/08 B60J5/04 B60R13/06 (Advanced/Invention); B60J10/00 B60J10/02 B60J5/04 B60R13/06 (Core/Invention)

International class (IPC 1–7)**:** B60J10/00 B60J10/08 B60J5/04 B60R13/06

CPC: B60J10/24 B60J10/76 B60J10/84 B60J10/86

European class: B60J10/00D5 B60J10/04D B60J10/08B B60J10/08C

US class: 296/146 296/146.9 296/202 296/203 296/203.03 49/485 49/490.1 49/498.1

Classification Explorer

Cited documents: US4969295 A, US4549761 A, JP61120611 U1, JP61120611 A2, JP60170217 B4, DE3739355 A1, DE3227153 A1,

Forward Citations: WO9218368, US9174680, US9027989, US7171785, US6692065, US6644725, US6393766, US6129410, US6116680, US5499475, US5331768, US2015115663, US2015115662,

Abstract:
Source: US5048887A An automotive vehicle body has a body opening defined by body structural members and a closure structure mounted on one of the body structural members for swinging movement between closed and opened positions. A sealing arrangement for the closure structure includes a corner bracket structure formed at a front upper portion of the closure structure, a reinforcement formed on one of the body structural members at a front upper portion of the body opening, and a continuous sealing member securely attached to the body structural members and a lower edge of the reinforcement. When the closure structure is in a closed position, the sealing member is in abutment with an inwardly facing surface of a sash member of the closure structure at the location above the corner bracket structure and gradually departs from the sash member in a rearward direction of the vehicle body at the location of the corner bracket structure.

0) JP4166419A – CENTER SEAL RUBBER FOR AUTOMOBILE

56) Family number: 7896910 (JP4166419A) © PatBase

Title: CENTER SEAL RUBBER FOR AUTOMOBILE

Priority: JP19900292787 19901030

Family:

Publication number	Publication date	Application number	Application date
JP2022342 C3	19960226	JP19900292787	19901030
JP4166419 A2	19920612	JP19900292787	19901030
JP7057574 B4	19950621	JP19900292787	19901030

Probable Assignee: KINUGAWA RUBBER IND

Assignee(s):(std)**:** KINUGAWA RUBBER IND

Assignee(s): KINUGAWA RUBBER IND CO LTD

Inventor(s):(std)**:** HONDA TAKAYUKI ; SHIMIZU NORIMITSU

International class (IPC 8–9)**:** B60J10/04 B60R13/06 E06B7/23 (Advanced/Invention); B60J10/02 B60R13/06 E06B7/22 (Core/Invention)

International class (IPC 1–7)**:** B60J10/04 B60R13/06 E06B7/23

Classification Explorer

Cited documents: JP61185611 U1, JP57130822 A2, JP1226420 A2,

Abstract:
Source: JP4166419A PURPOSE:To improve sealing ability and to prevent the occurrence of deterioration with a year by extending a plane part in the direction of the outside of a car through a taperform thin section part from the upper part of the side wall of a seal lip making contact with the weather strip of the upper edge of the opening part of a car body, in a four–door hard top type car having no center pillar. CONSTITUTION:A center seal rubber 10 comprises a mounting base part 4 in a U–shape in cross section engaged with the front edge of a rear door glass 1 and a seal lip 5 in the shape of a hook in cross section brought into pressure contact with the rear edge of a front door glass 3 from the inside of a car. A tapered thin section part 8 is formed to the upper part of the side wall of the seal lip 5 and brought into pressure contact with a weather strip 7 of the opening part of a car body togetherwith the upper edge part of the front door glass 3. Further, a tongue piece 11 is spanned between the upper ends of the thin section part 8 and the mounting base part 4, and the upper surface of the tongue piece is formed to a plane part 12 extended from the upper end of the thin section part 8 in the direction of the outside of a car.

0) JP4278826A – SEAL STRUCTURE OF CENTER PILLAR PART OF SASHLES...

57) Family number: 8133330 (JP4278826A) © PatBase

Title: SEAL STRUCTURE OF CENTER PILLAR PART OF SASHLESS DOOR TYPE AUTOMOBILE

Priority: JP19910063899 19910305

Family:

Publication number	Publication date	Application number	Application date
JP4278826 A2	19921005	JP19910063899	19910305

Probable Assignee: TOKAI KOGYO CO LTD

Assignee(s):(std)**:** TOKAI KOGYO CO LTD

Assignee(s): TOKAI KOGYO KK

Inventor(s):(std)**:** HACHISUGA TAKAO

International class (IPC 8–9)**:** B60J10/04 B60R13/06 E06B7/23 (Advanced/Invention); B60J10/02 B60R13/06 E06B7/22 (Core/Invention)

International class (IPC 1–7)**:** B60J10/04 B60R13/06 E06B7/23

Classification Explorer

Forward Citations: US8793938, US8650802, US8646215, US8572898, US8561354, RU2602847,

Abstract:
Source: JP4278826A PURPOSE:To enlarge width inside of a car room, and design width of a center pillar itself narrow without lowering rigidity of the center pillar, and while make a sealing material to be provided in the center pillar part compact to make the sealing material of that part inconspicuous in a sashless door type automobile. CONSTITUTION:A fitting part 4a having U–shape cross section and formed in a base end of a sealing material 4 is fitted to a front edge of a rear door glass 3b, and an elastic contact part 4b formed in the tip of the sealing material 4 is made elastically contact to the back surface of a rear edge of a front door glass 3b. Since thickness of the sealing material 4 (TS) can be made small, in the case that shape of cross section of the center pillar 2 is left as it is, the center pillar 2 can be provided outside of a car by a quantity of reduction of thickness of the sealing material to enlarge width of a car room. In the case that thickness of the center pillar 2 (TP) is reduced by a quantity of reduction of thickness of the sealing material 4, width of the center pillar (WP) can be reduced, and width of the center pillar 2 is thereby reduced without lowering rigidity to make the sealing material inconspicuous.

0) DE4125299A1 – VEHICLE DOOR REINFORCEMENT SYSTEM – MOVES OUTSI...

58) Family number: 10407829 (DE4125299A1) © PatBase

Title: Vehicle door reinforcement system – moves outside door under external force to engage with posts and threshold

Priority: DE19914125299 19910731

Family:

Publication number	Publication date	Application number	Application date
DE4125299 A1	19930204	DE19914125299	19910731
DE4125299 C2	19960905	DE19914125299	19910731

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Assignee(s): BAYERISCHE MOTOREN WERKE AG 8000 MUENCHEN DE ; BAYERISCHE MOTOREN WERKE AG 80809 MUENCHEN DE

Inventor(s):(std)**:** ALTMANN OTTO

Inventor(s): ALTMANN OTTO 8011 KIRCHSEEON DE

International class (IPC 8–9)**:** B60J5/04 (Advanced/Invention)

International class (IPC 1–7)**:** B60J5/04 B60R21/02

CPC: B60J5/0437 B60J5/0447

European class: B60J5/04E2C B60J5/04E2D4D

Classification Explorer

Cited documents: DE4032992 A1, DE3131778 A1, DE2414114 A1, DE2215674 B1,

Forward Citations: WO9528295, WO06122725, WO05102752, WO0144679, US7905517, US7735901, US7610984, US7547062, US5895088, US5429410, FR2989636, FR2955055, EP1692033, EP1663683, DE4342038, DE202010003756, DE19633637, DE112007000020, DE10357311, DE10341329, DE10341329, DE102015208779, DE102007044276, DE102007044276, DE102005041079, DE102005011162, DE102004020471,

Abstract:
Source: DE4125299A1 The motor–vehicle door is accommodated between vertical posts joined by a threshold running in the lengthwise direction. Between the external sheet–metal and the internal cladding is an energy absorbing reinforcing system. Under external force, one end at least of the reinforcing system moves outside the door, so as to engage in a post and/or the threshold. This end can be guided in the door edge, being normally roughly flush with it. In the initial position it can be arched towards the outside of the door, working in guides at the front and rear edges. It can be of fibre–reinforced plastic, with glass fibres at the convex side, carbon–fibres at the concave side, and Kevlar fibres in between. ADVANTAGE – Positive transmission of energy to vehicle structure on side collision.

0) DE4203364A1 – SIDE WINDOW FOR VEHICLE HAVING NO B–POST – USES...

59) Family number: 10709969 (DE4203364A1) © PatBase

Title: SIDE WINDOW FOR VEHICLE HAVING NO B–POST – USES HOLDER ON REAR WINDOW PANE TO CARRY SEAL FOR LEADING WINDOW PANE

Priority: DE19924203364 19920206

Family:

Publication number	Publication date	Application number	Application date
DE4203364 A1	19930812	DE19924203364	19920206
DE4203364 C2	19931223	DE19924203364	19920206

Probable Assignee: DAIMLER BENZ AG

Assignee(s):(std): DAIMLER BENZ AG

Assignee(s): MERCEDES BENZ 7000 STUTTGART DE AG ; MERCEDES BENZ 70327 STUTTGART DE AG ; MERCEDES BENZ AKTIENGESELLSCHAFT 7000 STUTTGART DE ; MERCEDES BENZ AKTIENGESELLSCHAFT 70327 STUTTGART D ; MERCEDES BENZ AKTIENGESELLSCHAFT 70327 STUTTGART DE

Inventor(s):(std): HUBER PETER

Inventor(s): HUBER PETER 6725 ROEMERBERG DE

International class (IPC 8–9): B60J1/00 B60J1/17 B60J10/00 B60J10/04 (Advanced/Invention); B60J1/00 B60J1/17 B60J10/00 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J1/17 B60J10/04 E06B7/16

CPC: B60J1/001 B60J1/17 B60J10/30 B60J10/70 B60J10/74

European class: B60J1/00B B60J1/17 B60J10/00G B60J10/02 B60J10/04

Classification Explorer

Cited documents: DE1140471 B,

Forward Citations: WO06024427, US8171682, US8146645, US7866727, US6976727, EP1781483, EP1415832, DE29712859, DE202014106202, DE19711368, DE102004041741, DE10055897,

Abstract:
Source: DE4203364A1 The side window is for a vehicle such as a coupe or cabriolet not having a B–post. It consists of a lowerable, frameless driver's window pane (2), where the rear pane is fitted with a strip to hold a sealing profile for the driver's pane. The strip is in two parts. There is a holding part (3) attached to the rear pane, and an adjustably held sliding strip (4) to which the sealing profile (5) is fitted. USE/ADVANTAGE – The arrangement allows a simple adjustment of the seal to accommodate tolerance differences in the gap between the two panes.

0) US5527583A – STRUCTURE FOR ATTACHMENT OF WEATHER STRIP

60) Family number: 10450748 (US5527583A) © PatBase

Title: STRUCTURE FOR ATTACHMENT OF WEATHER STRIP

Priority: JP19930343865 19931216 JP19940114520 19940428 JP19940114596 19940430 JP19940159264 19940617 JP19940114598 19940430 JP19940200237 19940802 JP19940234303 19940902 JP19940252846 19940921 JP19990229878 19990816

Family:

Publication number	Publication date	Application number	Application date
DE69410413 D1	19980625	DE19946010413	19941214
DE69410413 T2	19990218	DE19946010413T	19941214
EP0658455 A1	19950621	EP19940119778	19941214
EP0658455 B1	19980520	EP19940119778	19941214
JP2000052782 A2	20000222	JP19990229878	19990816
JP3166480 B2	20010514	JP19940114520	19940428
JP3214493 B2	20011002	JP19990229878	19990816
JP3365083 B2	20030108	JP19940234303	19940902
JP7291056 A2	19951107	JP19940114520	19940428
JP7300049 A2	19951114	JP19940114596	19940430
JP7300051 A2	19951114	JP19940114598	19940430
JP8058488 A2	19960305	JP19940234303	19940902
JP8099537 A2	19960416	JP19940252846	19940921
US5527583 A	19960618	US19940357925	19941216

Probable Assignee: TOYODA GOSEI CO LTD

Assignee(s):(std): TOYODA GOSEI KK

Assignee(s): TOYODA GOSEI CO ; TOYODA GOSEI CO LTD ; TOYODA GOSEI CO LTD HARUHI AICHI JP

Inventor(s):(std): NOZAKI MASAHIRO ; HIKOSAKA ATSUSHI ; NOZAKI MASAHIRO C O TOYODA GOS ; HIKOSAKA ATSUSHI C O TOYODA GO

Inventor(s): HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO... ; HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO PLANT N ; HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO PLANT ; HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO PLANT NAKASHIMA GUN AICHI KEN 490 13 JP ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHO PLANT ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHOPLANT NAKASHIMA GUN AICHI KEN 490 13 JP ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHOPLANT... ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHOPLANT NAK

Designated states: DE FR GB

International class (IPC 8–9): B60J10/00 B60J10/04 B60J10/06 B60R13/06 (Advanced/Invention); B60J10/00 B60J10/02 B60R13/06 (Core/Invention)

International class (IPC 1–7): B60J10/00 B60J10/02 B60J10/04 B60R13/06

CPC: Y10T428/24008 Y10T428/24959 Y10T428/24967 Y10T428/24983 B60J10/35 B60J10/84 B60J10/16 B60J10/248 B60J10/79

European class: B60J10/00C2 B60J10/00D3 B60J10/00D5E B60J10/00G2B B60J10/06 B60J10/08B

US class: 296/146.9 296/93 428/214 428/215 428/217 428/31 428/99 49/475.1

Classification Explorer

Cited documents: US5356194 A, US5304409 A, US5154952 A, US5149169 A, JP64068218 A2, JP6115354, JP5089104 U, JP4081816 U, JP3129543 U, JP3060144 U, JP1112110 A2, EP0357973 A1, EP0233552 A1, EP0111738 A2,

Forward Citations: WO11009116, WO0121425, US9616734, US8979164, US8176681, US8075042, US7581354, US7350849, US7293820, US7121046, US7083222, US7083222,

US6946194, US6938378, US6883847, US6860067, US6848218, US6811194, US6810624, US6748702, US6644718, US6623067, US6617015, US6539671, US6453618, US6439641, US6286841, US6143397, US6012760, US6007140, US5848819, US5791722, US2016250912, US2012139191, US2012023831, US2010207424, US2009071077, US2009064592, US2009001754, US2006265995, US2006138801, US2005235573, US2005189783, US2005074604, US2005057058, US2004255520, US2004018339, US2004010976, US2003121210, JP7329579, JP6101211, JP4032250, JP3829664, JP3794386, JP3331876, JP2985668, JP2016107854, JP2014504993, JP2007168552, JP2006298075, JP2004516341, JP2004359068, JP2003054329, JP10053026, EP1419919, DE29916383, DE19716395, DE19716395, DE102009009722, DE102007011918,

Abstract:
Source: US5527583A A structure for attachment of a weather strip to an opening of a vehicle body, which is opened and closed by a closing member. A base portion of the weather strip is bonded with two double−sided adhesive tapes to the vehicle body in the longitudinal direction thereof. The outer double−sided adhesive tape has thickness greater than that of the inner double−sided adhesive tape, and the material of the outer double−sided adhesive tape is softer than that of the inner double−sided adhesive tape.

0) US5806914A – WEATHER STRIP OF MOTOR VEHICLE

61) Family number: 11142618 (US5806914A) © PatBase

Title: WEATHER STRIP OF MOTOR VEHICLE

Priority: JP19940113528 19940429 JP19940212935 19940906 US19970831751 19970401 US19950427600 19950424

Family:

Publication number	Publication date	Application number	Application date
AU199517745 A1	19951116	AU19950017745	19950427
AU667655 B2	19960328	AU19950017745	19950427
JP3329085 B2	20020930	JP19940212935	19940906
JP8011549 A2	19960116	JP19940212935	19940906
US5806914 A	19980915	US19970831751	19970401

Probable Assignee: TOYODA GOSEI KK

Assignee(s):(std)**:** TOYODA GOSEI KK

Assignee(s): TOYODA GOSEI CO ; TOYODA GOSEI CO LTD

Inventor(s):(std)**:** OKADA MASAYASU

Inventor(s): MASAYASU OKADA

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

International class (IPC 8–9)**:** B60J10/00 B60J10/02 B60J10/04 B60J10/06 B60J10/08 B60R13/06 (Advanced/Invention)

International class (IPC 1–7)**:** B60J10/02 B60J10/04 B60J10/08 B60J5/04 B60R13/06

CPC: B60J10/79 B60J10/16 B60J10/248 B60J10/277 B60J10/74 B60J10/77 B60J10/7775

European class: B60J10/00C2 B60J10/00D5E B60J10/00D9D B60J10/04 B60J10/04E B60J10/04E4E B60J10/06

US class: 296/146.9 49/495.1 49/498.1

Classification Explorer

Cited documents: US5375376 A, US5356194 A, JP6135236 A2, JP60189419 A2, JP60064049 A2, JP3178831 A2, JP3000522 A2, FR794152 A, DE3411559 A1, DE3322510 A1, AU6003090 A1, AU1777095 A1,

Forward Citations: US9475373, US9027284, US8979164, US8898958, US8646212, US8176681, US7350849, US7243983, US7083222, US7083222, US6938378, US6832451, US6722746, US6684575, US6644718, US6536852, US6158171, US5970659, US2016144698, US2015251527, US2012159860, US2009001754, US2006186705, US2005279027, US2005235573, US2005189783, US2003177701, JP6192328, JP3393129, JP2014184843, JP2003081026, EP2923871, EP2008851, EP1932748, EP1325827, EP0885778, CN104960404, CN104960404,

Abstract:
Source: US5806914A A door weather strip comprises a mounting base, a sealing section consisting of a first sealing wall, a second sealing wall, and a lip, a vehicle outer side, and a vehicle inner side wall, and has a hollow portion being surrounded and defined by the sealing section, the vehicle outer side wall and the vehicle inner side wall. Then, the bridging section connecting the second sealing wall and the lip is formed near the hollow portion with a recess which forms a thin wall portion as a bending portion for the lip to easily turn back. Accordingly, when the door glass is fully closed, the distal end of the lip turns back to strongly press the inner side surface of the door glass so that high tightness performance can be obtained and the door glass is firmly supported.

0) US5735081A – SIDE DOOR FOR AUTOMOBILE

62) Family number: 10734851 (US5735081A) © PatBase

Title: SIDE DOOR FOR AUTOMOBILE

Priority: JP19940150329 19940608 US19950435390 19950505 US19960748276 19961113

Family:

Publication number	Publication date	Application number	Application date
DE19517756 A1	19951214	DE19951017756	19950515
DE19517756 B4	20051229	DE19951017756	19950515
JP7329572 A2	19951219	JP19940150329	19940608
US5735081 A	19980407	US19960748276	19961113

Probable Assignee: SANKEI GIKEN KOGYO KK

Assignee(s):(std)**:** SANKEI GIKEN KOGYO KK

Assignee(s): SHIMIZU TAKUJI ; YAMANAKA TAKASHI ; SANKEI GIKEN KOGYO K K ; SANKEI GIKEN KOGYO K K TOKIO TOKYO ; SANKEI GIKEN KOGYO K K TOKIO TOKYO JP

Inventor(s):(std)**:** SHIMIZU TAKUJI ; SHIMIZU TAKUSHI ; YAMANAKA TAKASHI

Inventor(s): YAMANAKA TAKASHI KITASAITAMA GUN SAITAMA JP ; SHIMIZU TAKUJI KODAMA GUN SAUTAMA JP

International class (IPC 8–9)**:** B60J10/00 B60J10/04 B60J10/08 B60J5/04 (Advanced/Invention)

International class (IPC 1–7)**:** B23P13/00 B60J10/04 B60J5/00 B60J5/04 E06B3/00

CPC: Y10T29/49622 B60J5/0402 B60J10/21 B60J10/248 B60J10/76 B60J10/86

European class: B60J10/00D1 B60J10/00D5E B60J10/04D B60J10/08C B60J5/04B2

US class: 29/897.2 49/502 49/506

Classification Explorer

Cited documents: US5577796 A, US5355629 A, US5275455 A, US5107624 A, US4945682 A, US4811517 A, US4648208 A, US4509293 A, JP6032139 U1, JP5270265 A2, EP0437188 A1,

Forward Citations: US9656538, US9085220, US8985673, US8544211, US7900993, US7891137, US7390049, US6811194, US6364397, US6016630, US6007140, US5953809, US2016167491, US2014217772, US2014159431, US2014137480, US2009195013, US2009115220, US2005066584, US2004244298, US2003177702, JP8164742, JP5908804, JP3614487, JP2014019221, JP2013095341, JP2012111285, JP2009248645, EP1149719, EP0788913, DE19938863, DE102010054204,

Abstract:
Source: US5735081A The present invention is directed to provide an improved structure of a sash of the side door for automobiles, wherein rigidity of the door sash, hence rigidity of the side door as a whole, is augmented without increase in weight of the door sash, and without causing hindrance to the surrounding view. Such structure is realized by the box–shaped transverse sectional part (45) provided over the entire length of the door sash (4, 4A, 4B, 4C), of which the size (w) in the breadthwise direction of the vehicle is gradually changed, thereby progressively reducing thickness (W) of the door sash (4, 4A, 4B, 4C) in the breadthwise direction of the vehicle.

0) EP0799736A1 – SEALING AND GUIDING STRIPS AND SAFETY SYSTEMS F...

63) Family number: 11036923 (EP0799736A1) © PatBase

Title: SEALING AND GUIDING STRIPS AND SAFETY SYSTEMS FOR POWER–DRIVEN WINDOWS

Priority: GB19960006893 19960401

Family:

Publication number	Publication date	Application number	Application date
CZ9700962 A3	19971015	CZ19970000962	19970328
EP0799736 A1	19971008	EP19970302058	19970326
GB2311798 A1	19971008	GB19960006893	19960401
GB9606893 A0	19960605	GB19960006893	19960401

Probable Assignee: DRAFTEX IND LTD

Assignee(s):(std)**:** DRAFTEX IND LTD

Assignee(s): DRAFTEX INDUSTRIES LIMITED

Inventor(s):(std)**:** STOCKSCHLAGER ALFONS ; STOCKSCHLAEGER ALFONS ; HELLER NORBERT

Inventor(s): ALFONS STOCKSCHLAGER ; NORBERT HELLER

Designated states: DE ES FR IT

International class (IPC 8–9)**:** B60J1/17 B60J10/00 B60J10/04 B60J10/08 (Advanced/Invention); H02H7/085 (Advanced/Non–invention); B60J1/17 B60J10/00 B60J10/02 (Core/Invention); H02H7/085 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/16 B60J1/17 B60J10/00 B60J10/04 E05F15/00 F16P3/12

CPC: B60J10/22 B60J10/24 B60J10/277 B60J10/76 B60J10/86 B60J10/00 H02H7/0851

European class: B60J10/00 B60J10/00D2 B60J10/00D5 B60J10/00D9D B60J10/04D B60J10/08C T02H7/085B

Classification Explorer

Cited documents: WO9502268 A1, US5483133 A, JP59038124, EP0648628 A1, EP0640740 A1, EP0178064 A2, EP0171821 A1, EP0153756 A2, DE29507970 U1,

Forward Citations: US4611012,

Abstract:
Source: EP0799736A1 A window channel (34) for a power–driven window glass in a motor vehicle body has lip portions (46,48) extending across its mouth, one of the lip portions (46) making initial contact with the rising window glass. Along part of the window frame, such as along a slanting part corresponding to the A–pillar of the vehicle, the lip (46) is provided with a groove (70) which increases the flexibility of the lip (46) so that it applies substantially no reactive force to the rising window glass (10). Along another part, such as the substantially horizontal top part of the frame, the lip (46) is provided with no such groove. It therefore provides a reactive force to the rising window glass (10) which increases to a peak value as the lip hinges into the channel, and then falls abruptly from this peak value. A safety system monitors the current in an electric motor raising the window glass. When this current is detected to rise to a peak corresponding to the peak value of the force, and then to fall, this indicates that the glass has entered the window channel and can be safely driven into the closed position. However, if the safety system previously detects that the current has risen to a level corresponding to a force exceeding the predetermined value, this is indicative of an obstruction and the window glass is stopped and reversed.

0) US6095591A – INTERIOR MATERIAL FOR AUTOMOTIVE VEHICLE

64) Family number: 15742115 (US6095591A) © PatBase

Title: Interior material for automotive vehicle

Priority: GB19970022118 19971020 JP19960283894 19961025 US20000610866 20000706 JP19960309832 19961121 US19970956704 19971024

Family:

Publication number	Publication date	Application number	Application date
DE19747107 A1	19980430	DE19971047107	19971024
DE19747107 C2	20020516	DE19971047107	19971024
GB200101963 A0	20010314	GB20010001963	19971020
GB2318551 A1	19980429	GB19970022118	19971020
GB2318551 B2	20010418	GB19970022118	19971020
GB2355438 A1	20010425	GB20010001963	19971020
GB2355438 B2	20010606	GB20010001963	19971020
GB9722118 A0	19971217	GB19970022118	19971020
JP10129376 A2	19980519	JP19960283894	19961025
JP10152005 A2	19980609	JP19960309832	19961121
JP3437725 B2	20030818	JP19960283894	19961025
JP3469409 B2	20031125	JP19960309832	19961121
US6095591 A	20000801	US19970956704	19971024
US6309011 BA	20011030	US20000610866	20000706

Probable Assignee: NISSAN MOTOR

Assignee(s):(std)**:** NIHON PLAST COMPANY LTD ; NISSAN MOTOR ; NIHON PLAST CO LTD

Assignee(s): NIHON PLAST CO LTD FUJI SHIZUOKA JP ; NIHON PLAST COMPANY LIMITED ; NIHON PLAST CO ; NISSAN MOTOR COMPANY LIMITED ; NIPPON PLAST CO LTD ; NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN MOTOR CO LTD YOKOHAMA KANAGAWA JP

Inventor(s):(std)**:** ICHIKAWA SATOSHI ; KAWAI AKIRA ; ICHIKAWA SATORU ; KOMATSU MOTOI ; KOMATSU MOTORU ; MATSUYAMA KAZUO ; YOSHIKAWA SATORU ; YOSHIKAWA SATOSHI

Inventor(s): AKIRA KAWAI ; YOSHIKAWA SATORU ZAMA KANAGAWA JP ; MATSUYAMA KAZUO FUJI SHIZUOKA JP ; MOTORU KOMATSU ; SATORU ICHIKAWA ; SATORU YOSHIKAWA ; KOMATSU MOTORU SAGAMIHARA KANAGAWA JP ; ICHIKAWA SATORU YOKOSUKA KANAGAWA JP ; KAWAI AKIRA MINAMIASHIGARA KANAGAWA JP ; KAZUO MATSUYAMA

Agent(s): SUGIMURA KOSAKU

International class (IPC 8–9): B60R13/02 B60R21/04 (Advanced/Invention); B60R13/06 (Advanced/Non–invention); B60R13/02 B60R21/04 (Core/Invention)

International class (IPC 1–7): B60J7/00 B60R13/02 B60R21/00 B60R21/04 B60R27/00

CPC: B60R13/0206 B60R13/025 B60R13/06 B60R2013/0287 B60R21/04 B60R2021/0414 B60R2021/0435

European class: B60R13/02B B60R13/02D4 B60R21/04 L60R13/02R L60R13/06 L60R21/04C L60R21/04P

US class: 188/376 280/748 296/187.05 296/188 296/189 296/203.03 296/39.1 296/391

Classification Explorer

Cited documents: US6059342 A, US6050631 A, US6049952 A, US6042176 A, US6036227 A, US5938273 A, US5927786 A, US5868458 A, US5836641 A, US5833303 A, US5826907 A, US5779271 A, US5779270 A, US5741044 A, US5660426 A, US5641195 A, US5609385 A, US5580116 A, US5575500 A, US5564744 A, US5560672 A, US5549327 A, US5382051 A, US5040646 A, JP885339, JP8142784, JP8132874, JP8085339,

JP7277117, JP7205730, JP7002029 A2, JP6239189 A2, GB2314049 A1, GB2308340 A1, GB2304648 A1, EP0753432 A1, DE4329406 A1, DE19505935 A1,

Forward Citations: WO10100359, WO04041498, WO04041498, WO02070304, US9700292, US9129054, US8419112, US8132847, US7954885, US7854094, US7722113, US7445269, US7159931, US6832800, US6811194, US6739624, US6305736, US2011163564, US2009243341, US2009218850, US2008296933, US2008224501, US2008143144, US2006059799, US2005189787, US2004160078, US2004131804, RU2517045, JP5123898, JP2011000919, FR2942756, EP1712428, EP1712428, EP1043214, EP1043214, EP0995640, EP0995640, EP0957004, EP0957004, CN103935307, CN102341271, CN102341271,

Abstract:
Source: US6095591A A front pillar garnish adapted to cover a front pillar disposed between a front windshield and a side door in an automotive vehicle. The front pillar garnish comprises a main body section formed of plastic and generally channel−shaped. The main body section is to be fixedly connected to the front pillar and located at the side of a passenger compartment. A plurality of generally plate−shaped energy absorbing ribs are integrally formed at the inner surface of the main body section in a manner to be generally perpendicular to the longitudinal axis of the main body section. A plurality of bosses are integrally formed extending from the inner surface of the main body section. A clip supporting member is fixedly secured to the tip end sections of the bosses and fixedly supported on the edges of the energy absorbing ribs. A clip formed of a spring material is fixedly mounted on the clip supporting member and fixable to the front pillar in order to install the front pillar garnish to the vehicle body.

0) US5791723A – BUMPER WEDGE FOR AUTOMOTIVE VEHICLE SLIDING DOO...

65) Family number: 11040466 (US5791723A) © PatBase

Title: BUMPER WEDGE FOR AUTOMOTIVE VEHICLE SLIDING DOOR

Priority: US19970784887 19970116

Family:

Publication number	Publication date	Application number	Application date
DE19755740 A1	19980723	DE19971055740	19971216
DE19755740 C2	20000120	DE19971055740	19971216
GB2321269 A1	19980722	GB19970027535	19971230
GB2321269 B2	20000913	GB19970027535	19971230
GB9727535 A0	19980225	GB19970027535	19971230
JP10226236 A2	19980825	JP19980006913	19980116
US5791723 A	19980811	US19970784887	19970116

Probable Assignee: VISTEON GLOBAL TECHNOLOGIES INC

Assignee(s):(std): FORD MOTOR CO

Assignee(s): FORD MOTOR CO DEARBORN ; FORD MOTOR CO DEARBORN MICH US ; FORD MOTOR COMPANY ; VISTEON GLOBAL TECHNOLOGIES INC

Inventor(s):(std): SINGH RAJINDER PAT ; SINGH RAJINDER PAL ; SHIPMAN ROGER A ; VARNEY CHARLES LINCOLN ; HAGERMAN JAMES MARIO ; BELL MARY TERESA

Inventor(s): CHARLES LINCOLN VARNEY ; BELL MARY TERESA MONROE MICH ; SINGH RAJINDER PAL CANTON MICH ; ROGER A SHIPMAN ; RAJINDER PAL SINGH ; MARY TERESA BELL ; JAMES MARIO HAGERMAN ; HAGERMAN JAMES MARIO NORTHVILLE MICH ; SINGH RAJINDER PAL CANTON MICH US ; SHIPMAN ROGER A WEST BLOOMFIELD MICH US ; HAGERMAN JAMES MARIO NORTHVILLE MICH US ; BELL MARY TERESA MONROE MICH US ; VARNEY CHARLES LINCOLN GROSSE ILE MICH ; RAJINDER PAT SINGH ; VARNEY CHARLES LINCOLN GROSSE ILE MICH US

International class (IPC 8–9): B60J5/06 E05F5/00 F16B5/12 (Advanced/Invention); E05F7/00 E05F7/04 (Advanced/Non–invention); B60J5/06 E05F5/00 F16B5/12 (Core/Invention); E05F7/00 (Core/Non–invention)

International class (IPC 1–7): B60J5/00 B60J5/06 E05B65/20 E05F15/02 E05F5/00 F16B5/12

CPC: Y10T16/629 B60J5/06 E05F5/003 E05F7/005 E05F7/04 E05Y2900/531

European class: B60J5/06 E05F5/00A P05F7/00C P05F7/04 P05Y900/531

US class: 16/86.00B 16/86B 296/146.9 296/155 49/483.1

Classification Explorer

Cited documents: US5626384 A, US5606771 A, US5577795 A, US5492349 A, US5433031 A, US4984842 A, US4692960 A, US4603363 A, US4192039 A, US3819228 A, US3359030 A, US2596780 A, US2014280 A, US1884827 A, US1683793 A, JP57147923 A2, JP5254461 A2, JP2063291 A2, GB2261011 A1, GB2075117 A1, GB1091332 A, FR2478718 A1, DE1224167 B,

Forward Citations: WO16164352, WO10134979, WO09024261, WO08025827, WO06002799, WO0015937, US8740254, US8607505, US8371640, US8328269, US8322762, US8235453, US7681281, US7669914, US7607719, US7566081, US7547060, US7527321, US7308731, US7014258, US6676201, US6601345, US6494520, US6401396, US6207911, US6206455, US2017241167, US2014338167, US2014117705, US2012193938, US2012023830, US2011210576, US2011154741, US2011131883, US2010219648, US2010154308, US2008203759, US2008122257, US2007273174, US2007234527, US2006280574, US2006200939, US2006097550, US2005253398, US2005060867, US2003194181, KR100772059, JP5998606, JP5783381, JP2014020015, JP2013220801, GB2464255, GB2464255, FR2996171, FR2923518, FR2817276, EP2060718, EP1712387, EP1209311, EP1114232, DE102007051718, DE102007039803, DE102007017424, DE102004050534, CN104670340, CN101856965, CN101856965,

Abstract:
Source: US5791723A In an automotive vehicle having a body opening closable by a sliding door, a door bumper wedge for restraining longitudinal and lateral movement of the sliding door has a wedge member attached to a door mating surface of the body opening, a receptacle member attached on a body mating edge of the sliding door defining a receptacle pocket, a pair of flexible, opposed prongs extending from the receptacle member a predetermined distance into the receptacle pocket, and a bumper member positioned within the receptacle pocket. The bumper member has a base portion, a pair of opposed arms extending from the base portion, each of the pair of arms positioned between one of the pair of prongs and a surface of the receptacle pocket, and a trough, defined by the pair of arms and the base portion, for receiving the wedge member therein when the sliding door is moved to a closed position, the wedge member restraining generally longitudinal movement of the sliding door by impacting the base portion, the pair of prongs and the pair of arms absorbing energy from the wedge member and limiting sliding door movement in a generally lateral direction when the sliding door is in the closed position by restraining relative movement between the wedge member and the receptacle member. An adjustment bracket is attached to an inner surface of the body pillar on an opposite side of the door mating surface for attaching the wedge plate to the door mating surface. The adjustment bracket adjustable to accommodate tolerance variation between the receptacle member and the wedge member upon first closure of the sliding door.

0) KR19980036331U – SEALING STRUCTURE OF THE VEHICLE DOOR HARDTOP A...

66) Family number: 48056238 (KR19980036331U) © PatBase

Title: Sealing structure of the vehicle door hardtop Assembly (Machine translation)

Priority: KR19960049330U 19961214

Family:

Publication number	Publication date	Application number	Application date
KR19980036331 U	19980915	KR19960049330U	19961214

Probable Assignee: KIA MOTORS CORP

Assignee(s):(std)**:** KIA MOTORS CORP

Assignee(s): AND GT I PERCENT PERCENT AND GT I PERCENT PERCENT

International class (IPC 8–9): B60J10/08 (Advanced/Non–invention)

International class (IPC 1–7): B60J10/08

Classification Explorer

Abstract:
Source: KR19980036331U The subject innovation is not to be easily bent from the mounting portion, and thus can be excluded that a risk of damage, there is a vehicle door assembly–in order to provide a sealing structure of the coupé there is no pillar, i.e., a solid metal, or a resin having the roof panel is applied to a vehicle chassis (not–door assembly (2), the sealing structure is molded rubber material, but the roof panel by bolts 16 fastened to the end portion of the outer panel; a mounting portion (26) mounting portion 26, mounting portion 26 forming the skeleton of the rotor core 24 and rotor core 24 formed buried wrapped; the flash–shape of the mounting portion 26 of the buried side end portion extended from, or molded into the combined state again the upper end of the door glass (6) is watertight state. Close that the watertight portion 28 and the inner panel to the roof panel; the foregoing disposed toward the interior roof trim the tip 30 of the mounting portion 26 so as to constrain the extension 32 extends from the end forming a watertight unit 28 in the interior of the mounting portion 26 of the rotor core 24 and rotor core 38 so as to extend bent embedded in the) it is composed of a structure comprising a.

0) US6226953B – WEATHER STRIP RETAINER WITH DRIP MOLDING AND ME...

67) Family number: 11926603 (US6226953B) © PatBase

Title: WEATHER STRIP RETAINER WITH DRIP MOLDING AND METHOD FOR PRODUCING THE SAME

Priority: JP19970099012 19970416

Family:

Publication number	Publication date	Application number	Application date
JP10287136 A2	19981027	JP19970099012	19970416
JP3538295 B2	20040614	JP19970099012	19970416
US6226953 BA	20010508	US19980058807	19980409

Probable Assignee: KATAYAMA KOGYO CO LTD

Assignee(s):(std)**:** KATAYAMA KOGYO CO LTD ; MITSUBISHI MOTORS CORP

Assignee(s): MITSUBISHI JIDOSHA KOGYO KK ; KATAYAMA KOGYO CO ; MITSUBISHI JIDOSHA KOGYO (AKA MITSUBISHI MOTORS CORPORATION) KK ; MITSUBISHI JIDOSHA KOGYO AKA MITSUBISHI MOTORS CORPORATION KK ; MITSUBISHI JIDOSHA KOGYO KABUSHIKI KAISHA

Inventor(s):(std)**:** ISHIHARA KATSUHISA ; ISHIHARA KATSUNAO ; OHASHI KAZUMASA ; UNO AKIHIRO

International class (IPC 8–9)**:** B29D99/00 B60J10/00 B60J10/04 B60J10/08 B60R13/06 B60R13/07 (Advanced/Invention); B29D99/00 B60J10/00 B60J10/02 B60R13/00 B60R13/06 (Core/Invention)

International class (IPC 1–7)**:** B29D31/00 B60J10/04 B60J10/08 B60J5/00 B60R13/06 B60R13/07 E04C2/38

CPC: B60J10/74 B60J10/80 B60J10/00 B60R13/07

European class: B60J10/00 B60J10/04 B60J10/08 B60R13/07

US class: 52/716.1 52/716.5 52/716.6 52/717.06

Classification Explorer

Cited documents: US5056850 A, US5050349 A, US5035937 A, US4959081 A, JP8058391 A2,

Forward Citations: WO05100728, WO05100728, US8979164, US8776475, US7374227, US7350849, US6736353, US2015251527, US2013031865, US2012297726, US2008129080, US2005235573, KR101204656, JP5020810, JP2007532804, EP1751389, EP1751389,

Abstract:
Source: US6226953B A weather strip retainer includes a first pillar mount section, a roof mount section, a center pillar mount section, and a drip molding integrally formed on the front pillar mount section and the roof mount section. The roof mount section and the center pillar mount section extends continuously. The center pillar mount section is oriented in a generally vertical direction by bending a boundary zone portion between the roof mount section and the center pillar mount section.

0) US5853857A – WINDSHIELD FRAME

68) Family number: 11353255 (US5853857A) © PatBase

Title: WINDSHIELD FRAME

Priority: US19970803223 19970220

Family:

Publication number	Publication date	Application number	Application date
US5853857 A	19981229	US19970803223	19970220

Probable Assignee: BUDD CO

Assignee(s):(std)**:** BUDD CO ; CHRYSLER CORP

Assignee(s): WELLS FARGO CAPITAL FINANCE LLC

Inventor(s):(std)**:** ABOUZAHR SAAD M ; EHRHARDT STUART A ; KAROLSKI DENNIS G ; MAHMOOD MOHAMMED ; SHINEDLING MICHAEL M

International class (IPC 8–9): B29C65/00 B29C70/46 B29C70/86 B60J1/02 B60J10/02 (Advanced/Invention); B29C65/48 (Advanced/Non–invention); B29C65/00 B29C70/00 B29C70/04 B60J1/02 B60J10/02 (Core/Invention); B29C65/48 (Core/Non–invention)

International class (IPC 1–7): B28B5/00 B29C47/00 B32B1/00

CPC: B62D25/04 B62D29/043 B60J1/02 B29C66/721 B29C70/46 B29C70/86 B29C65/48 B29C65/483 B29C65/485 B29C66/5346 Y10T428/192 Y10T428/24198 Y10T428/24562 Y10T428/24612 Y10T428/24661 Y10T428/24744 B29C66/7212 B29C66/72141 B60J10/70 B29C66/71 B29C66/61 B29C66/1222 B29C66/1226 B29C66/12443 B29C66/12469

European class: B29C66/721 B29C70/46 B29C70/86 B60J1/02 B60J10/02 L29C65/48

US class: 156/242 156/244.22 156/304.2 264/241 264/319 296/201 296/96.21 428/122 428/166 428/172 428/178 428/188 428/58

Classification Explorer

Cited documents: US5618593 A, US5344038 A, US5130071 A, US5076632 A, US5000990 A, US4943102 A, US4911876 A, US4863771 A, US4855097 A, US4848147 A, US4612149 A, US4606571 A, US4373745 A, US4151620 A, US4146263 A, US3843982 A, US3829153 A, US3526426 A, US3295813 A, US3222769 A, US3158395 A, US3121924 A, US3093845 A,

Forward Citations: WO14147388, WO09111546, USD662869, USD638033, US9694565, US8976541, US8526311, US8489543, US8303337, US8254734, US8132329, US8111145, US7941798, US7856158, US7185946, US7008006, US6729676, US6286683, US2015225617, US2010090500, US2010082277, US2009277707, US2009274416, US2009273208, US2009224895, US2009223437, US2009199386, US2009070755, US2007236049, US2007143747, US2005035609, US2004094976, GB2526733, GB2526733, EP1375311, DE10229400, DE102007025633, DE102007025632, DE102007025631,

Abstract:
Source: US5853857A The present invention provides a windshield frame utilizing composite technology. More particularly, the windshield frame preferably comprises a fiber reinforced plastic molded upper frame section bonded with a structural grade adhesive to a fiber reinforced plastic molded lower frame section. According to the invention, steel reinforcements and tapping plates are bonded on or molded into the frame sections to stabilize the structure and provide hardware attachment points. Continuous carbon fibers may also be molded in the frame sections in critical high stress areas. The strength of the bonding between the frame sections is enhanced by a tongue and groove geometry along the interface. In addition, dowel pins and bushings are used to mechanically tie the frame sections together near body side attachment points. The frame sections also define a hollow section therebetween to maximize structural efficiency, provide a conduit for electrical wires and offer a platform for visors, mirrors, seals, and other hardware.

0) KR19990004755U – CAR BODY WEATHERSTRIP (MACHINE TRANSLATION)

69) Family number: 66793618 (KR19990004755U) © PatBase

Title: Car body weatherstrip (Machine translation)

Priority: KR19970017970U 19970708

Family:

Publication number	Publication date	Application number	Application date
KR19990004755 U	19990205	KR19970017970U	19970708

Probable Assignee: KIA MOTORS CORP

Assignee(s):(std)**:** KIA MOTORS CORP

International class (IPC 1–7)**:** B60J1/08

Abstract:
Source: KR19990004755U The present invention relates to a vehicle body, in particular the seal by simplifying the structure of the seal and to facilitate the production and fixing can improve the appearance beauty relates to automotive body of the weather strip. The present design is a plurality of the bent portion is formed on the outer surface is a clip having a protrusion which is opposite to the first fixing portion to be fixed to the first fixing portion and integrally fixed fitted to the flange portion of the vehicle body and a second fixing portion consisting of the first and second seal fixing portion between the one end of the pillar trim, it is fixed to the vehicle body, wherein the pillar trim seal, so as to cover the lower side of the fixing part is formed on one side of the cover and the features. Such a car according to the present invention, the fixing part and the body of the seal has recessed areas between the pillar trim is no longer exposed to the outside, there is an effect that improves the appearance Micah.

0) US2001017477A – EASY EJECTOR SEAT WITH SKELETAL CRASH SAFETY BE...

70) Family number: 34707591 (US2001017477A) © PatBase

Title: EASY EJECTOR SEAT WITH SKELETAL CRASH SAFETY BEAM

Priority:

CN201080006263 20100128 CN201180058999 20110906 EP20020076388 20020402
EP19980948260 19980917 EP20000203896 20001107 JP20080545860 20061215
JP20120178675 20061215 JP20150042578 20150304 JP20080545860T 20061215
JP20110547976T 20100128 JP20100539946T 20090121 JP20160077926 20160408
JP20150042578 20061215 JP20130527067T 20110906 US20000195298P 20000410
US20000226570P 20000821 US20010338466P 20011203 US20010332419P 20011114
US20010286629P 20010426 US20010282105P 20010409 US20010280470P 20010402
US20010779591 20010209 US20010779592 20010209 US20010779593 20010209
US19970936626 19970924 US19990435830 19991108 US19990404475 19990924
JP20160169243 20160831 JP20160146641 20160726 US20010286629P 20010406
US20020109674 20020204 US20030681304 20031009 US20020109674P 20020401
US20060787444P 20060330 US20070730161 20070329 US20060845761P 20060920
US20020362450P 20020308 US20020357644P 20020220 US20020279171 20021024
US20010779594 20010209 US20050113028 20050425 US20020109674 20020401
US20050185784 20050721 US20020367644P 20020326 US20030461434P 20030410
US20060639088 20061214 US20050751305P 20051219 US20060848804P 20060929
US20060849685P 20061005 US20030481434P 20030929 US20070928040P 20070507
US20070962077P 20070726 US20070960067P 20070913 US20080066372P 20080220
US20070960620P 20071005 US20070006074P 20071217 US20080062002P 20080123
US20080072241P 20080328 US20080072495P 20080331 US20080062495P 20080128
US20010779593 20010307 US20060928040P 20061214 WO1998US19260 19980917
WO2006US48016 20061215 WO2007US08189 20070330 US20100924354 20100924
WO2009US00342 20090124 WO2008US05810 20090507 US20090276298P 20090909
US20090214672P 20090427 US20090215559P 20090507 US20090206205P 20090128
US20090211191P 20090327 US20090270808P 20090714 US20090208445P 20090224
WO2010US00237 20100128 US20100138183 20100128 WO2009US00342 20090121
WO2008US05810 20080507 US20110820510 20110906 US20120507149 20120609
US20130375673 20130131 US20140461395 20140816 US20090451317 20091106
US20150708584 20150511 US20150849732 20150910 US20110138183 20110718
US20140210413 20140313 US20100735146 20100617 US20080123345P 20080408
US20080188175P 20080807 US20080191309P 20080908 US20150852593 20150913
US20130820510 20130302 WO2011US01547 20110906 US20140375673 20140730
WO2013US00024 20130131 US20080198541P 20081106 US20100402751P 20100903
US20100404335P 20101001 US20100458997P 20101203 US20100459689P 20101216
US20100460266P 20101229 US20110465160P 20110315 US20120632797P 20120131
US20120685537P 20120320 US20120686316P 20120403 US20120688591P 20120517
US20120688855P 20120523 US20120744431P 20120926 US20120797175P 20121201
US20120797639P 20121212 US20130848724P 20130110 WO2011US63878 20111208
US20100459698P 20101216 US20080334508P 20080408 US20150848575 20150909
US20090639088 20091216 US20080185784 20080804 US20090735146 20090121
US20080451317 20080507

Family:

Publication number	Publication date	Application number	Application date
AT309121 E	20051115	AT19980948260T	19980917
AT367283 E	20070815	AT20020076388T	20020402
AT407037 E	20080915	AT20000203896T	20001107
AU199894871 A1	19990412	AU19980094871	19980917
AU772852 B2	20040506	AU19980094871	19980917
CN102300745 A	20111228	CN201080006263	20100128
CN102300745 B	20160706	CN201080006263	20100128
CN103249593 A	20130814	CN201180058999	20110906
CN103249593 B	20160302	CN201180058999	20110906
CN104093608 A	20141008	CN201380007583	20130131
CN105882977 A	20160824	CN201610051802	20110906
CN106080316 A	20161109	CN201610398772	20100128
DE60040130 D1	20081016	DE20006040130	20001107
DE60221222 D1	20070830	DE20026021222	20020402
DE60221222 T2	20080911	DE20026021222T	20020402

DE69832295 D1	20051215	DE19986032295	19980917	
DE69832295 T2	20070215	DE19986032295T	19980917	
EP1021320 A1	20000726	EP19980948260	19980917	
EP1021320 A4	20001227	EP19980948260	19980917	
EP1021320 B1	20051109	EP19980948260	19980917	
EP1099607 A1	20010516	EP20000203896	20001107	
EP1099607 B1	20080903	EP20000203896	20001107	
EP1325836 A2	20030709	EP20020076388	20020402	
EP1325836 A3	20031126	EP20020076388	20020402	
EP1325836 B1	20070718	EP20020076388	20020402	
EP1918197 A2	20080507	EP20070010864	20020402	
EP1964085 A2	20080903	EP20060845601	20061215	
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EP2825422 A4	20161019	EP20130743602	20130131	
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JP2001517577 T2	20011009	JP20000512716T	19980917	
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JP2009538461 T2	20091105	JP20090503068T	20070330	
JP2012254794 A2	20121227	JP20120178675	20120810	
JP2012516264 T2	20120719	JP20110547976T	20100128	
JP2013536784 T2	20130926	JP20130527067T	20110906	
JP2015134609 A2	20150727	JP20150042578	20150304	
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JP2016064825 A2	20160428	JP20150245257	20151216	
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Inventor(s):(std)**:** RAJASINGHAM ARJVNA I ; RAJASINGHAM ARJUNA INDRAESWARA ; RAJASINGHAM ARJUNA INDRAESWARAN ; RAJASINGHAM DR ; RAJASINGHAM ARUNAN ; RAJASINGHAM ARJUNA IHDRAESWARA ; RAJASINGHAM ARJUNA ; RAJASINGHAM AMRITA ; RAJASINGHAM ARJUNA I ; ARJUNA IWDRAESWARAN RAJASINGHAM ; RAJASINGHAM ARJVNA INDRAESWARA ; RAJASINGHAM ARJUNA IWDRAESWARA ; RAJASINGHAM ARJUNA INDRAESWARE ; RAJASINAHAM ARJUNA INDRAESWARA ; ARJUNA I RAJASINGHAM

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class(IPC 8–9)**:** A47C7/14 A47C7/50 A47C7/62 A61G5/04 B01J8/02 B32B38/04 B60F3/00 B60N2/005 B60N2/01 B60N2/02 B60N2/06 B60N2/22 B60N2/24 B60N2/26 B60N2/28 B60N2/34 B60N2/42 B60N2/427 B60N2/44 B60N2/48 B60N2/50 B60N2/64 B60N2/66 B60N2/68 B60N2/70 B60Q1/00 B60R19/20 B60R21/00 B60R21/01 B60R21/02 B60R21/10 B60R21/16 B60R21/18 B60R21/207 B60R21/22 B60R21/233 B60R21/26 B60R21/276 B60R21/34 B60R22/10 B60R22/12 B60R22/18 B60R22/28 B60R27/00 B60R7/00 B60R99/00 B61D1/06 B61D1/08 B62B7/06 B62D21/15 B62D25/20 B62D61/12 B64C25/00 B64D11/06 B64D25/00 B64D25/04 C07D C07D311/26 C07D405/10 C07D407/10 G02B27/01 G02B27/02 G06F13/00 G06F3/01 G06F3/048 G06F3/0481 G06F3/0484 G06T15/20 G06T19/00 G08G1/16 G09G5/00 H04L29/06 H04N13/02 H04N13/04 H04N5/232 H04N7/18 H04R1/08 (Advanced/Invention);
A61G3/02 A61G3/08 B60R19/20 B60R19/42 B60R21/00 B60R21/16 B60R21/231 B60R27/00 G06T17/40 (Advanced/Non–invention);
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G06T17/40 (Core/Non–invention)

International class(IPC 1–7)**:** A47C4/54 B01J8/02 B60J7/00 B60N2/00 B60N2/02 B60N2/06 B60N2/06 B60N2/24 B60N2/26 B60N2/42 B60R19/20 B60R21/00 B60R21/01 B60R21/02 B60R21/32 B60R22/00 B60R27/00 B60R27/00 B62D21/15 B62D25/20 B62D27/00

CPC: B60N2/2893 B60N2/42709 B60N2/4882 B60N2/4885 B60R19/42 B64C1/062 B64C25/00 B64C2025/325 B64D25/00 Y10S297/04 A61G3/0808 A61G5/04 B62D21/152 A61G2203/723 A61G2203/36 B60R21/23138 A61G3/02 A61G3/06 B60N2/067 B60R21/02 B60R2021/0004 B60R2021/022 B60N2/06 B60N2/062 B60N2/245 B60N2/4214 B60N2/4279 B60R19/205 B60R2021/0006 A63F2300/8082 B60N2/26 B60N2/2809 B60N2/2824 B60N2/2833 B60N2/2869 B60N2/482 Y10T156/1057 G02B27/017 G02B2027/0138 G02B2027/0178 G06F3/04842 G06T15/205 G06T19/003 H04N5/23238 H04N7/183 H04N7/185 H04N13/0217 H04N13/0221 H04N13/0242 H04N13/044 B60N2/2812 B60N2/2821 B60N2/2839 B60N2/2845 B60N2/2848 B60N2/286 B60N2/2863 B60N2/2872 B60N2/2875 B60N2/2881 B60N2/2884 B60N2/2887 H04R1/08 G06F3/013 G06F3/04815 B62B7/06 B64D11/0627 B64D11/003 G02B27/22 G06F3/011 B60N2/4221 B60N2/4228 B60N2/4235 B60N2/64 B60N2/68 B60N2/7094 B60R2021/0039

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European class: A61G5/04 B60N2/005 B60N2/01 B60N2/06 B60N2/06C B60N2/06S B60N2/24C B60N2/26 B60N2/26B B60N2/28B2 B60N2/28B2T B60N2/28B4 B60N2/28C B60N2/28C2 B60N2/28D2 B60N2/28F B60N2/28G2 B60N2/28G4 B60N2/28H B60N2/28P2 B60N2/28P4 B60N2/28R B60N2/28S B60N2/28T B60N2/28U B60N2/28W B60N2/28Y B60N2/28Y4 B60N2/427D B60N2/427R2 B60N2/427T4 B60N2/42D2 B60N2/42D2F B60N2/42D4 B60N2/48C2B6 B60N2/48S B60N2/48W B60N2/64 B60N2/66 B60N2/68 B60N2/70Y B60R19/20C B60R21/02 B60R21/16B2L B60R21/18 B60R21/231L B62D21/15A B62D21/15B B64C1/06F2 B64C25/00 B64D11/06 B64D25/00 G06F3/01B4 K61G3/02 K61G3/06 K61G3/08 K61G5/10H K63F300/80V L60R19/20C L60R19/42 L60R21/00A1 L60R21/00A2 L60R21/00P2 L60R21/02A3 L60R21/231L L64C25/32A L64D11/06A10 L64D11/06A38 L64D11/06A8

US class: 1/1 156/253 156/253S 180/209 180/271 180/282 244/118.6 280/250.1 280/38 280/728.1 280/728.100S 280/730.1 280/730.100P 280/730.2 280/735 280/735S 280/736 280/748 280/748S 280/784 280/805 296/187.03 296/187.12 296/187.120P 296/188 296/189 296/190.04 296/205 296/26.08 296/26.080P 296/65.04 296/65.11 296/65.12 296/68.1 296/68.100P 297/183.6 297/216.1 297/216.100P 297/216.11 297/216.110P 297/216.12 297/216.19 297/217.3 297/232 297/250.1 297/256.13 297/284.1 297/284.100S 297/284.2 297/284.200S 297/284.3 297/284.6 297/284.600P 297/284.9 297/344.1 297/452.34 297/464 297/464S 297/DIG.4 340/425.5 340/457.1 340/461 340/686.1 340/686.2 345/156 345/8 5/632 5/633

Classification Explorer

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Forward Citations: WO13143747, WO13115931, WO13012890, WO12094419, WO11044435, WO10087965, WO09080193, WO09079668, WO09079668, WO08129327, WO08031605, USD793787, USD784749, USD782859, USD782241, USD779255, USD779254, USD779253, USD779252, USD779251, USD779250, USD779248, USD660605, USD543135, US9797128, US9797127, US9783310, US9776588, US9776535, US9749618,

US9725154, US9676258, US9669739, US9668580, US9534373, US9534372, US9504325, US9486081, US9469183, US9452666, US9428088, US9380976, US9365139, US9265458, US9254042, US9248762, US9240014, US9238174, US9211820, US9186290, US9144317, US9119473, US9081414, US9061611, US8967726, US8939507, US8939465, US8905478, US8844968, US8797261, US8763954, US8740303, US8690237, US8646208, US8634852, US8573640, US8564533, US8544952, US8540007, US8500196, US8414073, US8393678, US8393674, US8370873, US8360368, US8357023, US8356687, US8348337, US8308522, US8282172, US8282169, US8251425, US8172027, US8156995, US8112178, US8096613, US8052500, US8052210, US8002604, US7992936, US7926879, US7918489, US7887116, US7883392, US7815482, US7806221, US7784871, US7721837, US7703849, US7662013, US7640090, US7614686, US7494397, US7481486, US7467984, US7458637, US7413242, US7413240, US7396065, US7374223, US7328938, US7273252, US7246845, US7237841, US6986549, US2016193903, US2016185442, US2016046251, US2016027209, US2015336482, US2015286278, US2015066307, US2015054323, US2014346826, US2014332302, US2014319275, US2014265472, US2014246891, US2014167464, US2014110983, US2014077482, US2013221724, US2013210329, US2013175838, US2013154318, US2013026802, US2012303211, US2012126604, US2012013157, US2012007408, US2011227383, US2011227376, US2011225611, US2011175423, US2011169310, US2011102237, US2011012406, US2011011664, US2010308175, US2010295342, US2010289308, US2010283282, US2010282902, US2010263803, US2010060552, US2010025525, US2010019555, US2009256404, US2009212590, US2009177322, US2009167072, US2009162175, US2009117812, US2009104836, US2009102268, US2009021050, US2008299867, US2008217970, US2008157567, US2008150337, US2007272794, US2007221781, US2007207020, US2007194607, US2007181742, US2007164583, US2007164150, US2007164149, US2007164148, US2007114811, US2006255635, US2006202513, US2006169517, US2005161980, US2005161968, US2005161967, US2005134091, US2005046235, US2004183348, RU2527615, RU2527603, KR101320477, JP2015521558, JP2015511559, JP2014181036, EP3165459, EP2825422, EP1857320, EP1813455, EP1813455, EP1325836, DE102012208725, DE102010018689, DE102008017199, DE10143881, DE10143881, CN106004573, CN106004572, CN106004558, CN106004553, CN106004549, CN105946666, CN105946644, CN105946635, CN105936227, CN105922910, CN105922905, CN105922904, CN104097776, CN103717492, CN103370258, CN103370258,

Abstract:
Source: US2001017477A An arrangement in passenger vehicles, that diverts the impact energy in impacts away from the passengers to the remaining mass of the vehicle thereby protecting the passengers, and in the same arrangement provides utilitarian access to the vehicle, such utilitarian access making it possible to both install multi−element contoured surround seats for passengers and the driver, and also a safety device for head−on collision protection that obviates the need for conventional seat belts and front impact airbags. An indo−skeletal structural arrangement proposed for the vehicle, provides further benefits by targeting the strength of the vehicle to protect passengers while minimizing other massive elements in the vehicle.

0) KR19990015881U – THE AUTOMOBILE PILLAR FRAME SEAL (MACHINE TRA...

71) Family number: 47979624 (KR19990015881U) © PatBase

Title: The Automobile pillar frame seal (Machine translation)

Priority: KR19970029218U 19971021

Family:

Publication number	Publication date	Application number	Application date
KR19990015881 U	19990515	KR19970029218U	19971021
KR200224293 Y1	20010601	KR19970029218U	19971021

Probable Assignee: HYUNDAI MOTOR CO

Assignee(s):(std)**:** HYUNDAI MOTOR CO

Assignee(s): AND GT I PERCENT PERCENT AND GT I PERCENT PERCENT

International class (IPC 8–9)**:** B60J10/00 (Advanced/Non–invention)

International class (IPC 1–7)**:** B60J10/00 B62D25/04

Classification Explorer

Abstract:
Source: KR19990015881U The subject innovation is the door and the body side opening weatherstrip of each soft and hard weatherstrip molded integrally by using the material of the retainer without the assistance of a pillar on and facilitates mounting the assembly to improve the productivity and to reduce the cost of a vehicle pillar frame seal, a center pillar (30) (40) mounted to the door opening in the mounting surface of the seal is harder than the opening seal (40) forms a hard rubber layer 50 at the center of the hard rubber layer 50 in the center of the pillar outer side panel 31 is inserted into the hole 32 formed in the locking projection (51) takes a installed projecting direction, while the pillar outer side panel 31 and the center pillar inner side panel (31a)(31b)(32a)(32b) fitted to 32, respectively, formed in the flange portion 55 of the body side seal layer 50 from opposite ends of a hard rubber, and is configured to form integrally.

0) US6557302B – DOG FOR FIXING A WINDOW GLASS ONTO A WINDOW LIF...

72) Family number: 13153851 (US6557302B) © PatBase

Title: Dog for fixing a window glass onto a window lifter

Priority: DE19981019910 19980505 DE19995004538 19990427 WO1999DE01270 19990427

Family:

Publication number	Publication date	Application number	Application date
BRPI9910249 A	20010109	BR1999PI10249	19990427
DE19819910 C1	19990617	DE19981019910	19980505
DE59904538 D1	20030417	DE19995004538	19990427
EP1076749 A1	20010221	EP19990929056	19990427
EP1076749 B1	20030312	EP19990929056	19990427
ES2194473 T3	20031116	ES19990929056T	19990427
US6557302 BA	20030506	US20000674867	20001106
WO9957399 A1	19991111	WO1999DE01270	19990427

Probable Assignee: BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG

Assignee(s):(std): BROSE FAHRZEUGTEILE ; KAPS ROBERT

Assignee(s): BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCH ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDIT GESELLSC ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDIT GESELLSCHAFT COBURG ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCHAFT COBURG ; BROSE FAHRZEUGTEILE GMBH ; BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG 96450 COBURG DE ; BROSE FAHRZEUGTEILE GMBH AND CO KG COBURG

Inventor(s):(std): KAPS ROBERT

Inventor(s): KAPS ROBERT 96450 COBURG DE ; ROBERT KAPS

Designated states: AT BE BR CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE US

International class (IPC 8–9): E05F11/38 (Advanced/Invention)

International class (IPC 1–7): B60J1/17 E05F11/38

CPC: E05F11/385 E05Y2900/55

European class: E05F11/38B2 P05Y900/550

US class: 49/372 49/375 493/750

Classification Explorer

Cited documents: US72409 A, US6205711 BA, US5832667 A, US5778599 A, US5729930 A, US5673515 A, US5622005 A, US5515651 A, US5502926 A, US5243785 A, US4991351 A, US4910917 A, US4475314 A, EP0643188 A1, DE4423440 A1, DE4218425 A1, DE4102941 A1, DE2843633 A1,

Forward Citations: US8544209, US8240086, US8132368, US8065835, US7802401, US7721487, US7654041, US7409797, US6957514, US2011225888, US2009188169, US2009145035, US2009038227, US2009019780, US2008289256, US2007006533, US2007000178, US2005072051, US2004168372, US2003061765, DE202004013669,

Abstract:
Source: US6557302B A carrier for connecting a window pane to a window lifter including retaining arms which are located to each side of the lower edge of the window pane. At least one of these retaining arms has a recess in which a window bolt can engage to connect the window pane to the carrier. At least the upper part of at least one retaining arm is resilient. One retaining arm has a retaining area formed as a horizontal oblong guide and the other retaining arm has a fixing area which is resiliently attached to the carrier for horizontally urging the window bolt as the bolt moves with respect to the carrier within the horizontal guide.

0) US6152485A – HEAD–PROTECTING AIR BAG DEVICE FOR A VEHICLE

73) Family number: 12696699 (US6152485A) © PatBase

Title: HEAD–PROTECTING AIR BAG DEVICE FOR A VEHICLE

Priority: JP19980068218 19980318

Family:

Publication number	Publication date	Application number	Application date
DE19911929 A1	19990923	DE19991011929	19990317
DE19911929 B4	20040819	DE19991011929	19990317
JP11263184 A2	19990928	JP19980068218	19980318
JP3104668 B2	20001030	JP19980068218	19980318
US6152485 A	20001128	US19990270058	19990316

Probable Assignee: TOYOTA JIDOSHA KK

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA K K TOYOTA ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** KATO MAKOTO

International class (IPC 8–9)**:** B60J1/10 B60R13/02 B60R13/04 B60R21/08 B60R21/20 B60R21/213 B60R21/215 B62D25/04 (Advanced/Invention); B60R21/16 (Advanced/Non–invention); B60J1/08 B60R13/02 B60R13/04 B60R21/02 B60R21/20 B62D25/04 (Core/Invention); B60R21/16 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/10 B60R13/02 B60R13/04 B60R21/06 B60R21/08 B60R21/20 B60R21/22 B60R21/24 B62D25/04

CPC: B60R21/213 B60R2021/161

European class: B60R21/20K B60R21/213 L60R21/16C

US class: 280/728.2 280/730.1 280/730.2 280/749

Classification Explorer

Cited documents: WO9626087 A1, US5924722 A, US5899491 A, US5791683 A, US5462308 A, JPS60128019 A2, JP9315253, JP9240409, JP9207701, JP8282394, JP8080868, JP61030902 Y1, JP60128019 A2, JP58194911 U, JP58035417 U, JP56147120 U, JP54126325 U, JP5286360, JP3112413 U, JP10138858, JP10138856, DE29614201 U1, DE29603316 U1,

Forward Citations: WO12035949, US8807595, US8109532, US7934746, US7775549, US7621556, US6889999, US6851710, US6808198, US6793239, US6719321, US6705639, US6616222, US6382660, US6340169, US2013168950, US2010194152, US2010001496, US2009267330, US2008073887, US2007108742, US2003178832, US2003178821, JP6035184, JP6035183, JP5700280, JP5629325, JP3846132, JP2014193631, JP2014193630, JP2012131334, JP2006298334, JP2001130446, GB2459559, GB2459559, DE102006053990, DE10151194,

Abstract:
Source: US6152485A A pillar garnish is formed by a pillar garnish main body portion which forms a portion of a front pillar at the interior of a vehicle, and a pillar garnish divided portion separated from the pillar garnish main body portion and forming a portion of a division bar at the interior of a vehicle. The pillar garnish divided portion includes an extending portion which extends along an upper edge of a fixed window. A guide surface for guiding the expansion of the air bag body is formed at an upper edge of the extending portion along a direction in which the front pillar extends. During the expansion of the air bag body, only the pillar garnish main body portion opens along the guide surface and the pillar garnish divided portion remains unmoved.

0) EP1031690A1 – VEHICLE DOOR FAHRZEUGTUER PORTE DE VEHICULE A...

74) Family number: 12982675 (EP1031690A1) © PatBase

Title: VEHICLE DOOR

Priority: FR19990002177 19990222

Family:

Publication number	Publication date	Application number	Application date
AT257207 E	20040115	AT20000400133T	20000119
DE60007468 D1	20040205	DE20006007468	20000119
DE60007468 T2	20041021	DE20006007468T	20000119
EP1031690 A1	20000830	EP20000400133	20000119
EP1031690 B1	20040102	EP20000400133	20000119
ES2213546 T3	20040901	ES20000400133T	20000119
FR2790028 A1	20000825	FR19990002177	19990222
FR2790028 B1	20010608	FR19990002177	19990222

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES S A ; PEUGEOT CITROEN AUTOMOBILES S A NEUILLY SUR SEINE

Inventor(s):(std)**:** BERREUR JEAN CHARLES

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class(IPC 8–9)**:** E05B47/02 E05B65/20 E05B65/22 (Advanced/Invention); E05B63/14 (Advanced/Non–invention); E05B47/02 E05B65/20 E05B65/22 (Core/Invention); E05B63/00 (Core/Non–invention)

International class(IPC 1–7)**:** B60J5/00 E05B47/00 E05B47/02 E05B47/02 E05B65/20 E05B65/22

CPC: E05B81/04 E05B83/38 E05B63/143 E05B85/22

European class: E05B81/00 E05B83/38 E05B85/22 P05B63/14B

Classification Explorer

Cited documents: US5715712 A, US5693987 A, FR2513298 A1, FR2439284 A1, DE9411741 U, DE4425109 A1, DE4311911 A1,

Forward Citations: WO15117211, WO04103749, US7320495, DE10323150, DE10323150, DE102007054000, DE102004041742,

Abstract:
Wide side access to vehicle is obtained by omitting central pillar, rear edge of front door (10), hinged at front, adjoining front edge of rear (sliding) door, when both are closed. Without central pillar, front door lock is placed on upper or lower edge, engaging with fixing point in top or bottom of door frame (12), i.e. coach work box sections forming edge of roof (12S) or door sill (12I). Locks are at both these positions. Sill–level lock is fixed in base (14I) of door casing, and embodies rotating bolt plate (22), with two–stage latching, engaging vertical hasp–bar (16) fixed on top of sill case (12I). When door closes fully, it operates push–button switch (32) in door frame which energizes second, electrical lock (30) within door frame top (14S). Lock expels bolt (28) into recess (26) in frame (12S). Bolt is chamfered to ease entry and final sealing. Relative positions of two locks can be reversed.

0) US6606763B – DOOR HINGE

75) Family number: 28992695 (US6606763B) © PatBase

Title: DOOR HINGE

Priority: DE19991030328 19990702 DE20005001886 20000628 WO2000EP06003 20000628

Family:

Publication number	Publication date	Application number	Application date
AU200065595 A5	20010122	AU20000065595	20000628
DE19930328 C1	20001026	DE19991030328	19990702
DE50001886 D1	20030528	DE20005001886	20000628
EP1192329 A1	20020403	EP20000952972	20000628
EP1192329 B1	20030423	EP20000952972	20000628
JP2003503280 T2	20030128	JP20010507894T	20000628
JP4603741 B2	20101222	JP20010507894T	20000628
US6606763 BA	20030819	US20010019493	20011227
WO0102682 A1	20010111	WO2000EP06003	20000628

Probable Assignee: EDSCHA AG

Assignee(s):(std)**:** BRUECKNER LOTHAR ; EDSCHA AG

Inventor(s):(std)**:** BRUCKNER LOTHAR ; BRUECKNER LOTHAR

Inventor(s): LOTHAR BRUCKNER

Agent(s): NAKAMURA GIHEI; ITOH HIDEHIKO; HORII YUTAKA; MORITA TOSHIO; MORISHITA HACHIRO; FUKAMI HISAO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): B60J5/04 E05D3/06 E05D3/14 E05D7/04 (Advanced/Invention); E05D3/10 (Advanced/Non–invention); B60J5/04 E05D3/00 E05D7/04 (Core/Invention)

International class (IPC 1–7): B60J5/04 E05D15/32 E05D3/06 E05D5/02 E05D7/04

CPC: Y10T16/547 Y10T16/554 E05D3/147 E05D3/10 E05D7/04 E05Y2900/531

European class: E05D3/14V2 E05D7/04 P05D3/10 P05Y900/531

US class: 16/366 16/382

Classification Explorer

Cited documents: US6149222 A, US6030025 A, US5685046 A, US5289615 A, US4665586 A, US3275370 A, US3095600 A, EP0596403 A1, EP0569403 A1,

Forward Citations: WO10024173, US9217269, US8234816, US8007026, US7347483, US7328932, US7257860, US7150492, US7100245, US7100245, US7048322, US6938303, US6820918, US6817065, US6817063, US2010301631, US2007145774, US2006208529, US2006175867, US2005204511, US2005184556, US2005116497, US2005086770, US2005076472, DE102014216369,

Abstract:
Source: US6606763B A hinge for a motor vehicle door allows the door to be displaced with respect to a door pillar in a transverse movement combined with a pivoting movement by means of a four–joint mechanism that has a support arm and a control rod, both of which are hinged to the door and the door pillar. The support arm has a base support arm, at least one support arm element that can be detached from the base support arm and that has two hinge lugs supported on an extremity of the support arm, and means for interlinking the base support arm and the support arm element. The support arm element can be adjusted relative to the support arm through an axis that extends through the tangent plane of the base support arm and the support arm element by rotating them around a swiveling axis that is perpendicular to the tangent plane.

- List: SS4 1–25 (FT=((Seal* or strip) and (car or vehicle) and ((no or without) W5 pillar)) and IC=B60J) (Results 178)

0) GB247781A – IMPROVEMENTS RELATING TO ANTI–DAZZLE SCREENS OR...

1) Family number: 18212078 (GB247781A) © PatBase

Title: Improvements relating to anti–dazzle screens or attachments for the use of vehicle drivers

Priority: GB19250009546 19250409

Family:

Publication number	Publication date	Application number	Application date
GB247781 A	19260225	GB19250009546	19250409

Probable Assignee: FREDERICK SHIRLEY CORFIELD

Assignee(s):(std)**:** FREDERICK SHIRLEY CORFIELD

International class (IPC 8–9)**:** B60J3/02 (Advanced/Invention); B60J3/02 (Core/Invention)

International class (IPC 1–7)**:** B60J3/02

CPC: B60J3/02

European class: B60J3/02

Classification Explorer

Forward Citations: US4765675, GB2189445, GB2189445,

Abstract:
Source: GB247781A Anti–dazzle screens for drivers.An anti–dazzle screen for protecting the driver of a vehicle comprises a relatively narrow slip blind mounted on the wind–screen in such a manner that it may, against the power of a spring, be slowly drawn down the screen so as contilnuously to interrupt the relatively moving glare, while at the same time allowing the driver a sufficient view of the road. In the construction shown the blind t is carried by a ball–bearing runner–block k slidable vertically within a vertical tube b and operated against the action of a spring l by the pull on a Bowden cable n connected through a sheath o with a. finger on the steering–wheel. The blind shown consists of three metallic leaves u, v, w having interposed leaf springs 8, z and connected by pins 10 and slots 11 so that the blind is extended to its full width when pulled downwardly, the lowest member u being carried by the block k and made of channel section so as to receive the other members v, w when the blind is in its uppermost or collapsed position. An horizontal bracket d formed integral with the tube b serves for attaching the blind to the upper edge of and either in front of or behind the wind–screen a, the former position being adopted when a screen–wiping flap x is attached to the member u. An additional guide 12 may be arranged at the free edges of the leaves of the blind. The blind may alternatively consist of a single fabric strip adapted to wind by tapes upon a spring roller.

0) GB261307A – IMPROVEMENTS IN WINDSCREENS FOR VEHICLES

2) Family number: 18286625 (GB261307A) © PatBase

Title: IMPROVEMENTS IN WINDSCREENS FOR VEHICLES

Priority: GB19260017114 19260708

Family:

Publication number	Publication date	Application number	Application date
GB261307 A	19261118	GB19260017114	19260708

Probable Assignee: EDWARD AXELSON HELLSTRAND

Assignee(s):(std)**:** EDWARD AXELSON HELLSTRAND

International class (IPC 8–9)**:** B60J10/02 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/04

CPC: B60J10/70

European class: B60J10/02

Classification Explorer

Forward Citations: US5907469,

Abstract:
Source: GB261307A 261,307. Hellstrand, E. A. July 8, 1926. Windscreens.–In order to prevent strains due to the lateral rocking of the supporting pillars of a vehicle wind–screen being transmitted to the screen itself and to avoid the provision of a heavy screen frame which would increase the obstruction to the driver's view caused bv the pillars, the screen 4 is pivoted directly to the upper ends of the pillars 2 so as to lie in a plane in advance of the pillars with the vertical members of the screen frame 7 situated immediately in front of the pillars. Preferably, the screen pivot is constituted by a transverse rod 6 extending between forwardly projecting lugs 3 on the upper ends of the pillars. The screen frame 7 is of light construction and is surrounded on its lower and vertical edges with a single or separate draught excluding strips 10, 12 co–operating with the scuttle 9 and pillars 2 respectively. An additional rubber or like strip 8 is arranged on the scuttle to contact with the inner side of the screen frame. When the screen comprises two panels arranged to form a V, draught excluding strips are also provided at the junction of the meeting vertical edges, and an additional central supporting pillar may also be incorporated. The side panels 13 are attached to the pillars 2 by means of tubular hinge members 20, Fig. 5, having flanges 21 to which the side screen frames 19 may be detachably bolted. In addition to or instead of the bolts 22 and flanges 21 the edges of the screen frames may be provided with dovetails 23 engaging corresponding grooves 24 in the hinge members 20, thus allowing the screens to be removed by a vertical sliding movement relative to the pillars.

0) US1711010A – CONVERTIBLE BODY

3) Family number: 19911195 (US1711010A) © PatBase

Title: CONVERTIBLE BODY

Priority: US19240750356 19241117

Family:

Publication number	Publication date	Application number	Application date
US1711010 A	19290430	US19240750356	19241117

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** ROSCOE BERINGER

Inventor(s): BERINGER ROSCOE

International class (IPC 8–9)**:** B60J1/08 (Advanced/Invention); B60J1/08 (Core/Invention)

International class (IPC 1–7)**:** B60P3/42

CPC: B60J1/085

European class: B60J1/08B

US class: 296/139 296/148 296/149 49/166

Classification Explorer

Forward Citations: US4716682,

Abstract:
Source: US1711010A 1. A vehicle door having sockets at its iippei' edge, a panel lislving siipportiin; posts vxtezidiiigg into the esoclrets. a ifockslieft having; cams IIIfl3TSC(’–llllllg the sockets to grip the posts, and means for rocking the shaft.

0) GB310626A – IMPROVEMENTS IN OR RELATING TO BODIES FOR MOTOR...

4) Family number: 18633024 (GB310626A) © PatBase

Title: Improvements in or relating to bodies for motor vehicles

Priority: GB19280008801 19280323

Family:

Publication number	Publication date	Application number	Application date
GB310626 A	19290502	GB19280008801	19280323

Probable Assignee: LEONARD THOMAS TAYLOR

Assignee(s):(std)**:** LEONARD THOMAS TAYLOR

International class (IPC 8–9)**:** B60J5/06 (Advanced/Invention); B60J5/06 (Core/Invention)

International class (IPC 1–7)**:** B60J5/06 B62D31/00

CPC: B60J5/06

European class: B60J5/06

Classification Explorer

Forward Citations: US2548950, US2459502, EP0504767, DE1236352, DE1148460, DE1140092,

Abstract:
Source: GB310626A Doors for passenger vehicles.–Sliding doors for giving free access at one or both sides to the seats of a motor vehicle are supported along their upper and lower edges in guides carried by the sides of the body so as to slide forwardly substantially in the planes of these sides. In the construction shown the doors a of a saloon car are adapted to slide forwardly into the spaces between the bonnet and side wings, and are provided along their upper edges with T–headed rails d sliding in slots in guide channels e secured to the body cantrail and along their lower edges with rails f fitted with rollers h running in channels g. The doors and guides may either be plane or, as shown, of a uniform slight curvature. In their closed positions, watertight joints are maintained by means of strips j on the front edges of the doors co–operating with recesses on the front pillars k, while the near edges of the doors are stepped at l to engage complementary steps m on the body frame. In the case of a touring car, each upper guide consists of a channel member extending rearwardly and horizontally from the windscreen to a point above the front edge of the rear seats, whence it is carried down to the chassis.

0) GB332725A – VEHICLE BODIES

5) Family number: 18685079 (GB332725A) © PatBase

Title: Vehicle bodies

Priority: GB19290021047 19290709

Family:

Publication number	Publication date	Application number	Application date
GB332725 A	19300731	GB19290021047	19290709

Probable Assignee: JAMES DIXON KILSHAW

Assignee(s):(std)**:** JAMES DIXON KILSHAW

International class (IPC 8–9)**:** B60J5/04 (Advanced/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: B60J5/0479

European class: B60J5/04H5B

Classification Explorer

Abstract:
Source: GB332725A 332,725. Kilshaw, J. D. July 9, 1929. Doors for passenger vehicles.–In a road vehicle body of the type having two doors 2, 3 on the same side hinged at their remote edges 4, 5 and interconnected for movement in unison, their other edges 8, 9 abutting when closed, the connecting–means comprises linkwork resiliently connected to one of the doors. In one form a slidable link 16 is pivoted at its ends to links 12, 19, the link 12 being hinged to the door 2 and the link 19 pivoted at 18 to a C–shaped spring 22 fixed to the door 3. With closed bodies the links 12, 19 are situated in recesses 13, 20 in the tops of the doors while the link 16 slides in a. recess on the roof cantrail. A single handle 24 actuates means to lock both doors. In a modification a single link may be employed directly connecting the front door and the spring 22.

0) GB339004A – IMPROVEMENTS IN OR RELATING TO WIND–SCREENS FOR...

6) Family number: 18785584 (GB339004A) © PatBase

Title: Improvements in or relating to wind–screens for motor vehicles

Priority: GB19290027447 19290910

Family:

Publication number	Publication date	Application number	Application date
GB339004 A	19301204	GB19290027447	19290910

Probable Assignee: PERFECTA MOTOR EQUIPMENTS LTD

Assignee(s):(std): PERFECTA MOTOR EQUIPMENTS LTD ; VICTOR HARRY PINSON

Assignee(s): PERFECTA MOTOR EQUIPMENTS LIMITED

International class (IPC 8–9): E05C17/30 (Advanced/Invention); E05C17/00 (Core/Invention)

International class (IPC 1–7): B60J1/04

CPC: E05C17/30

European class: E05C17/30

Classification Explorer

Abstract:
Source: GB339004A Stays.–An additional stay for a windscreen by which the screen is held slightly open or is drawn tightly closed, comprises a pivoted member which is adapted to be clamped either by its tail k or around its recess j by a clamping–nut g of a telescopic stay c, e. The clamp comprises a screwed stud f, which projects from the arm c through a slot in the arm e, and a shouldered washer h which is adapted to fit the recess j. The pivoted member is provided with a. stop n behind which a spring may be adapted to snap.

0) US1847558A – DOORCHECK

7) Family number: 19786943 (US1847558A) © PatBase

Title:	DOORCHECK
Priority:	US19290403310 19291029

Family:

Publication number	Publication date	Application number	Application date
US1847558 A	19320301	US19290403310	19291029

Probable Assignee:	WILLYS OVERLAND CO
Assignee(s):(std):	WILLYS OVERLAND CO
Assignee(s):	THE WILLYS OVERLAND COMPANY
Inventor(s):(std):	GRIMM GEORGE E
International class (IPC 8–9):	E05C17/20 (Advanced/Invention); E05C17/00 (Core/Invention)
International class (IPC 1–7):	B60J5/00
CPC:	E05C17/20 Y10T16/61
European class:	E05C17/20
US class:	16/82

Classification Explorer

Abstract:
Source: US1847558A 1. A combination with a vehicle body pil~ lar and a door~pillar hinged thereto arranged to have their inner surfaces substantially aligned when in their normal position; of u door check comprising a substantially inflexible strap mounted on one of said pillars and hinged to the other; a plate secured to the door–pillar for guiding said strap, said strap having a bent–up portion adjacent its free end acting as a movement limiting means for said door–pillar; and resilient means interposed between the strap and doorpillar for constantly urging the strap into Contact with the plate.

0) GB406613A – IMPROVEMENTS IN OR RELATING TO VEHICLE BODIES

8) Family number: 19717175 (GB406613A) © PatBase

Title: IMPROVEMENTS IN OR RELATING TO VEHICLE BODIES

Priority: GB19330028325 19331013

Family:

Publication number	Publication date	Application number	Application date
GB406613 A	19340301	GB19330028325	19331013

Probable Assignee: AMBI BUDD PRESSWERK GMBH

Assignee(s):(std)**:** AMBI BUDD PRESSWERK GMBH

Assignee(s): AMBI BUDD PRESSWERK G M B H

International class (IPC 8–9)**:** E05C9/04 (Advanced/Invention); E05C9/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: E05C9/043

European class: E05C9/04

Classification Explorer

Forward Citations: US3034826, US2895763, FR2513298,

Abstract:
Source: GB406613A 406,613. Door fastenings. PRESSED STEEL CO. OF GREAT BRITAIN, Ltd., Cowley, Oxford.–(Ambi–Budd Presswerk Ges.; Johanisthal, Berlin.) Oct. 13, 1933, No. 28325. [Class 44.] In saloon vehicles having two doors at each side adapted to close towards one another without an intervening pillar and provided with lock mechanism adapted to engage the upper and lower horizontal frame members of the vehicle the adjacent edges of the doors are provided with means whereby the doors are held tightly against one another in the closed position. The doors 11, 12 are hinged at their remote edges and meet without intervening pillar. The door 11 comprises rails 18–21 with inner and outer panels and the door 12 is similarly constructed, while the adjacent rails 20, 24 are provided with off–set portions 27, 31 in which are mounted tightening strips 28, 32 of rubber. The locking arrangements comprise pivoted latches at the upper and lower parts of each door engaging the cant rail and the sill. The upper latch 36 which is spring–pressed engages a striking plate having a rack 41, while the lower latch 37, engaging by gravity, projects through the outer face of the sill 46 and engages a striking plate 49. The latches are linked by links 42, 50 to sliding plates 45, 52, Fig. 4, having pin and slot connection to a two–armed lever 53 mounted on the spindle 54 which also carries an arm 55 connected to the inner handle and a member 56 connected to the outer handle. A dog 60 with spring 59 engages a shoulder 61 to prevent disengagement of the locks, the dog 60 being withdrawn when necessary by means of a rotary member 62 operated from inside the door.

0) GB419740A – IMPROVEMENTS IN AND RELATING TO SLIDING WINDOWS...

9) Family number: 20224464 (GB419740A) © PatBase

Title: IMPROVEMENTS IN AND RELATING TO SLIDING WINDOWS FOR MOTOR OR OTHER VEHICLES

Priority: GB19330014414 19330518

Family:

Publication number	Publication date	Application number	Application date
GB419740 A	19341119	GB19330014414	19330518

Probable Assignee: MARTIN WALTER LTD

Assignee(s):(std)**:** ERNEST METCALFE ; MARTIN WALTER LTD

Assignee(s): MARTIN WALTER LIMITED

International class (IPC 8–9)**:** B60J10/04 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/17

CPC: B60J10/74

European class: B60J10/04

Classification Explorer

Forward Citations: US2938245, US2797958,

Abstract:
Source: GB419740A 419,740. Vehicle windows; frames; preventing rattle. METCALFE, E., 44, Alder Road, and WALTER, Ltd., M., 145, Sandgate Road, both in Folkestone, Kent. May 18, 1933, No. 14414. [Class 20 (iii).] Pairs of sliding vehicle windows are adapted to move in inclined guides 1, 2 in the vehicle doors or body so that the vertical edges 9 of the panels may engage when raised. A rubber or other bead may be provided on the meeting edge of one panel and the inclined extensions of the panel frame may have rollers 11 engaging the sides of the frame guides in the well to prevent vibration, the rollers being carried by plates secured to the frame at points where the panel is recessed. The meeting point of the inclined guides is preferably arranged below the top of well, but if above the well the triangular gap between the sashes when closed may be filled by a removable piece.

0) GB422215A – IMPROVEMENTS RELATING TO WINDOWS

10) Family number: 20281468 (GB422215A) © PatBase

Title: Improvements relating to windows

Priority: GB19330020666 19330722

Family:

Publication number	Publication date	Application number	Application date
GB422215 A	19350108	GB19330020666	19330722

Probable Assignee: HERBERT LINWOOD SLEIGH

Assignee(s):(std)**:** ARTHUR SAM CHESTON ; FREDERICK JOSEPH STUART ; HERBERT LINWOOD SLEIGH

International class (IPC 8–9)**:** E05F11/38 (Advanced/Invention); E05F11/38 (Core/Invention)

International class (IPC 1–7)**:** B60J1/14 E05F11/38

CPC: E05F11/382 E05Y2900/506 E05Y2900/55

European class: E05F11/38B P05Y900/506 P05Y900/550

Classification Explorer

Forward Citations: WO8807617, US2572764,

Abstract:
Source: GB422215A 422,215. Window holders. SLEIGH, H. L., CHESTON, A. S., and STUART, F. J., Widney Works, Bagot Street, Birming– ham. July 22, 1933, Nos. 20666/33 and 14364/34. [Class 44] [See also Group X] A sliding sash 23 is held in any required position by the engagement of pawls 27 on a rock shaft 26 with fixed rackbars 30, in the manner described in Specification 374,129.

0) GB449825A – IMPROVEMENTS IN MOTOR VEHICLES

11) Family number: 20450793 (GB449825A) © PatBase

Title: Improvements in motor vehicles

Priority: GB19350009109 19350323

Family:

Publication number	Publication date	Application number	Application date
GB449825 A	19360706	GB19350009109	19350323

Probable Assignee: FRANCIS BRIAN SYLVESTER GRIMST

Assignee(s):(std)**:** FRANCIS BRIAN SYLVESTER GRIMST

Assignee(s): FRANCIS BRIAN SYLVESTER GRIMSTON

International class (IPC 8–9)**:** B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00

CPC: B60J1/14

European class: B60J1/14

Classification Explorer

Forward Citations: US2596355, DE946951,

Abstract:
Source: GB449825A 9109. [Classes 103 (ii) and 108 (i)] [See also Group X] A motor vehicle having a movable hood adapted to be moved between an " up " position in which it forms a roof and a " down position at the rear of the vehicle is provided with a movable window at each side adapted to be housed in a " down " position in the body of the vehicle and arranged for movement about a horizontal pivot As. shown the hood 1 is movable by means of side links and c. from the position shown in Fig. 1, to a position in which it rests on the tonneau 2 and a pair of doors 3, 4 are hinged at each side to a central pillar by hinges 15. In the front door 3 is housed a window 6 adapted to be movable vertically and in the rear door 4 a window 11 with frame 12, 13 is pivoted at 14 so as to swing as shown. The window is preferably operated by a link 22, quadrant 19, pinion 21 and hand crank and the window and frame is offset at 12 <1> to overlap the central pillar and either abut against or overlap the rear edge of the front window 6. A transverse screen 23 with foldable side flaps 30 is provided to co–operate with the windows 11 when the hood is lowered and is adapted to be lowered into a housing 24 which is pivoted at 25 whereby the screen 23 may be adjusted towards the windows 16. Specification 445,188 is referred to.

0) US2552503A – DOOR AND WINDOW STRUCTURE FOR CONVERTIBLE BODIE...

12) Family number: 22135615 (US2552503A) © PatBase

Title: DOOR AND WINDOW STRUCTURE FOR CONVERTIBLE BODIES

Priority: US19470793272 19471222 US19510222254 19510421

Family:

Publication number	Publication date	Application number	Application date
US2552503 A	19510508	US19470793272	19471222
US2596356 A	19520513	US19510222254	19510421

Probable Assignee: ACKERMANS JOHN W J

Assignee(s):(std)**:** ACKERMANS JOHN W J

Inventor(s):(std)**:** ACKERMANS JOHN W J

International class (IPC 8–9)**:** B60J1/14 B60J1/17 B60J5/04 (Advanced/Invention); B60J1/12 B60J1/17 B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00

CPC: B60J1/14 B60J5/0402 B60J1/17

European class: B60J1/14 B60J1/17 B60J5/04B2

US class: 296/149

Classification Explorer

Cited documents: US2552503 A, US2403061 A, US2356403 A, US2211665 A, US2135215 A, US2132688 A, US2129921 A, US2023238 A, US1973219 A, US1880208 A, US1826865 A, US1753795 A, US1721875 A, US1606675 A,

Forward Citations: US4567636, US3138283, US2761183, US2596356,

Abstract:
Source: US2552503A (Claim 1) 1. A vehicle body having at each side a lower center pillar and two doors provided with windows spaced from each other longitudinally of the body, a permanently erected transparent panel dispose,d between said windows and having edges formed with a groove, an insert in said grbove, supporting means on one of said doors for carrying said panel, removable fastening mechariism coacting with said supporting means and with said insert for retaining said panel, and weatherstripping secured to at least one side of said insert by said fastening mechanism, said supporting means comprising a guide channel for sliding one of said windows from a closed position to an open position,.

13) Family number: 19960523 (GB687458A) © PatBase

Title: IMPROVEMENTS IN AND RELATING TO AUTOMOBILE BODIES

Family:

Publication number	Publication date	Application number	Application date
GB687458 A	19530211	GB19510015539	19510629

Probable Assignee: BRIGGS MFG CO

Assignee(s):(std)**:** BRIGGS MFG CO

Assignee(s): BRIGGS MANUFACTURING CO

International class (IPC 8–9): B60J5/04 B62D25/04 E05D5/02 (Advanced/Invention); B60J5/04 B62D25/04 E05D5/00 (Core/Invention)

International class (IPC 1–7): B60J5/00

CPC: E05Y2900/531 B62D25/04 B60J5/0431 E05D5/0207 E05Y2600/626

European class: B60J5/04 B60J5/04E2B12 B62D25/04 E05D5/02A P05Y600/626

Classification Explorer

Forward Citations: US5472258, FR2949805,

Abstract:
Source: GB687458A 687,458. Road vehicle bodies. BRIGGS MANUFACTURING CO. June 29, 1951 [Aug. 18, 1950], No. 15539/51. Class 108 (i). An intermediate body pillar has greater thickness longitudinally of the body on the outside than on the inside. The pillar comprises sheet–metal members 27, 28 secured by their flanges 33, 28b and closed on the inside by a channel member 38. Secured to appropriate parts are hinge brackets of generally L–section having a short outer leg 35 and a longer inwardly extending leg 36 provided with an embossment 36a to which the channel–like hinge mounting 48 is secured by screws 52. The mounting 48 carries the hinge pin 47 on which the goose–neck type hinge 46 supporting the rear door C is mounted. The cross–section of the pillar is larger in the lower part than in the upper part in the neighbourhood of the door window.

0) US2677572A – VEHICLE BODY WINDCORD AND TRIM MOUNTING MEANS

14) Family number: 20563111 (US2677572A) © PatBase

Title: VEHICLE BODY WINDCORD AND TRIM MOUNTING MEANS

Priority: US19510207513 19510124

Family:

Publication number	Publication date	Application number	Application date
GB697073 A	19530916	GB19520001631	19520121
US2677572 A	19540504	US19510207513	19510124

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR CO LTD ; FORD MOTOR COMPANY ; FORD MOTOR COMPANY LIMITED

Inventor(s):(std)**:** PICKARD EDWIN C

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: B60J10/80

European class: B60J10/08

US class: 296/206 49/500.1

Classification Explorer

Cited documents: US2536863 A, US2383575 A, US2356976 A, US2051757 A, US1896632 A, GB541917 A, FR864869 A,

Forward Citations: US4549761, US3198572, US3090645, US3021172, US3019049, US2994555, US2967072, US2787493,

Abstract:
Source: GB697073A 697,073. Draught excluders. FORD MOTOR CO.. Ltd. Jan. 21. 1951 [Jan. 24. 1951], No. 1631/52. Class 20(iii) A windcord, for a vehicle body, having an enlarged cylindrical sealing portion 33, Fig. 2, formed of resilient material such as sponge rubber and a smaller beaded portion 34 formed of hard rubber or cording spaced from portion 33 and connected thereto by a reinforcing strip 36 covered by fabric 37 is clamped against the inwardly extending flanges 17, 18 of the body structure by a continuous metal strip 23 provided with holes 26 registering with tabs 22 struck up from the body member; the marginal edge of the clamping strip 23 lying adjacent the windcord to clamp, it in place. The strip 23 has flanges 27, 28 to receive the edge of a trim panel 31. As applied to mounting the windcord at the windshield pillar, the clamping strip has no spaced flanges for receiving a trim. panel. In the mounting arrangement adjacent the roof rail 51, Fig. 7, the clamping strip 57 having a base 58. provided with holes for receiving tabs 59 struck from the body member 53, is formed with a rolled edge 63 for clamping the windcord against flanges 54, 56. A plurality of triangular barbs 64 struck out from the clamping strip 57 pierce the fabric headlining 67 of the vehicle to anchor it.

0) US2680645A – AUTOMOBILE BODY PILLAR AND DOOR

15) Family number: 22142271 (US2680645A) © PatBase

Title: AUTOMOBILE BODY PILLAR AND DOOR

Priority: US19500180231 19500818

Family:

Publication number	Publication date	Application number	Application date
US2680645 A	19540608	US19500180231	19500818

Probable Assignee: BRIGGS MFG CO

Assignee(s):(std)**:** BRIGGS MFG CO

Assignee(s): BRIGGS MANUFACTURING COMPANY

Inventor(s):(std)**:** BRILL HERBERT C

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B62D25/04

CPC: Y10T16/5525 Y10T16/5595 B60J10/80

European class: B60J10/08

US class: 16/379 16/389 296/206 49/484.1 49/500.1

Classification Explorer

Cited documents: USRE19416 E, US2532203 A, US2342531 A, US2326789 A, US2314337 A, US2121790 A, US1622098 A,

Forward Citations: US3944278, US3097878, US2860911, US2775478, DE1147496,

Abstract:
Source: US2680645A (Claim 1) 1. In a vehicle body, an interraediate body pillar havip–g a rear face comprising a jamb fbr. a rear door, a rear door hingedly4 connected to s–,_id P–lilar and, having a window in its upper poytion, said jamb and juxi.–aposed portion of the closed door below –the window being offset later– 4o ally outward a7–id _ rearward of. the upper portion of said jarr_b at the_ windovi level.

0) US2719749A – MOTOR VEHICLE WINDSHIELD PILLAR CONSTRUCTION

16) Family number: 22397454 (US2719749A) © PatBase

Title: MOTOR VEHICLE WINDSHIELD PILLAR CONSTRUCTION

Priority: US19540417256 19540319

Family:

Publication number	Publication date	Application number	Application date
US2719749 A	19551004	US19540417256	19540319

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR COMPANY

Inventor(s):(std)**:** PULLEYBLANK AUBREY V ; RICHARDS JESSE W

International class (IPC 8–9)**:** B60J10/00 B62D25/04 (Advanced/Invention); B60J10/00 B62D25/04 (Core/Invention)

International class (IPC 1–7)**:** B60H1/00

CPC: B60J10/00 B62D25/04

European class: B60J10/00 B62D25/04

US class: 296/200 296/93 296/96.21 49/391

Classification Explorer

Cited documents: US2620221 A,

Forward Citations: US5772277, US4807925, US3526426, US3155420, US2817559,

Abstract:
Source: US2719749A (Claim 1) 1. In a motor vehicle body construction, a windshield pillar at each side of said body having inner and outer pillar sections welded together along their marginal edges, said windshield pillar having a generally vertically extending upper portion and a forwardly and downwardly curved lower portion, the forward ends of said inner and outer pillar sections being substantially horizontal, a door hinge pillar at each side of said body having a Vertical door supporting portion and a generally horizontal rearwardly projecting portion with the latter being welded to the forward end of said outer windshield pillar section, a side cowl panel extending generally horizontally and longitudinally and having its forward end welded to said door hinge pillar and its rearward end welded to the inner windshield pillar section, said door hinge pillar and said side cowl panel forming a structural support for said windshield pillar, and an upper cowl panel extending transversely across said vehicle body and having its outer portions supported upon said door hinge pillars, said upper cowl panel having an upper flange generally arcuate in plan and conforming to the curvature of the windshield and extending transversely of the vehicle body between the windshield pillars at opposite sides thereof, said upper cowl Range intersecting said windshield pillars adjacent the juncture between the generally vertical upper portion of each windshield pillar and the forwardly and downwardly curved lower portion of each windshield pillar to form with the upper portions of said windshield pillars the windshield opening and to conceal from view the lower curved portions of said windshield pillars.

0) GB765044A – IMPROVEMENTS IN OR RELATING TO MOTOR–VEHICLE BO...

17) Family number: 19799016 (GB765044A) © PatBase

Title: IMPROVEMENTS IN OR RELATING TO MOTOR–VEHICLE BODY–CONSTRUCTIONS

Priority: 19540319 GB19550008005 19550318

Family:

Publication number	Publication date	Application number	Application date
GB765044 A	19570102	GB19550008005	19550318

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR CO LTD ; FORD MOTOR COMPANY LIMITED

International class (IPC 8–9)**:** B60J10/02 B62D25/08 (Advanced/Invention); B60J10/02 B62D25/08 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B62D25/08

CPC: B62D25/081 B60J10/70

European class: B60J10/02 B62D25/08B

Classification Explorer

Forward Citations: WO09098579, US7946645,

Abstract:
Source: GB765044A 765,044. Vehicle bodies. FORD MOTOR CO., Ltd. March 18, 1955 [March 19, 1954], No. 8005/55. Class 108(1). To obtain relatively sharp corners adjacent the windshield pillar in a vehicle with a wraparound windshield without undue stress concentrations the pillar 19 at its upper end penetrates the roof rail 44 and has its outer section 27 provided with a flange 51 welded to the outer roof rail section 52 and its inner section 26 provided with an extension flange 57 welded between the flanges 53 and 56 of the inner and outer roof rail sections. At the lower end the pillar sections, Fig. 2, are curved forwardly and are secured to the forward door pillar 66 by welding together flanges 63 and 72 and flange 62 to the rearward wall 74 of the door pillar. The inner side of the door pillar 66 is completed by a side cowl panel 76 having a flange 77 for attachment to the flange 72 and being secured to flanges 79, 81 formed on the forward face 67 of the door pillar. The joint between the windshield and door pillars is concealed by cowl panel 16 and by the reinforcement panel 97.

0) GB772128A – IMPROVEMENTS RELATING TO VEHICLE WINDOW ASSEMBL...

18) Family number: 20016438 (GB772128A) © PatBase

Title: Improvements relating to vehicle window assemblies

Priority: 19541025

Family:

Publication number	Publication date	Application number	Application date
GB772128 A	19570410	GB19550029180	19551013

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

International class (IPC 8–9): B60J1/17 (Advanced/Invention); B60J1/17 (Core/Invention)

CPC: B60J1/17

European class: B60J1/17

Classification Explorer

Forward Citations: FR2972391, DE3116917,

Abstract:
Source: GB772128A 772,128. Vehicle windows. GENERAL MOTORS CORPORATION. Oct. 13, 1955 [Oct. 25, 1954], No. 29180/55. Class 20(3) A rear quarter drop window 30 for a hardtop sedan type of vehicle which is pillarless above the waistline and therefore must have its entire support for the window located within a window well 32, is mounted on curved guides 46, 58 for vertical movement in a slantwise path into and out of the well 32 formed between laterally spaced inner and outer panels 34, 36 of the door, and is provided with a stabilizer which resists lateral sway of the window in its raised position and comprises a rail 98 which is pivoted to the lower rail of a frame 38 for the window and is slidably engaged by a fixed roller member 102 so that during opening, or closing movement of the window the rail turns about its pivot and slides along the member 102. The stabilizer arm 98 includes a U–shaped channel 100 which slidingly receives the headed roller 102 which is carried by a bolt 104 adjustably secured to a channel 106 extending horizontally along the outer door panel 36 and secured, with rubber pads 108, at its ends to the door edges. A U–shaped channel 110, welded to the upper end of the channel 100, is pivoted by a rivet 112 to a plate 114 which carries an angle plate 116 to form, with the outer face of the plate 114, a channel to interlock with one upper side of the channel 110 when the window is raised and sealed against the rear edge 40 of a front window 42 and against a roof panel 20. Front and rear rollers 74, 76, projecting from the inner side of the lower edge of the window frame, engage the tracks 46, 58, which are mounted by brackets 48, 50 and 60, 62, to the inner door panel 34, a bracket 56, and a lip 68 on the bracket 62, acting as stops for.the bottom rail of the window frame 38 when the window is lowered. Mechanism for moving the window includes a reversible motor 94 which swings an operating arm 84 which is pivoted at one end at 86 to a frame 88 secured to the inner door panel 34 and carries on its free end a roller 82 which slidingly engages a channel 80 secured to the lower rail of the window frame 38. Additional lateral stability of the window in the raised position is achieved by a tongue 120 which is adjustably secured to the front member of the door frame for interlocking engagement, when the window is in its fully open position, with a grooved bracket 128 which is adjustably secured to the forward edge of the window frame 38. During the rearward and downward movement of the window from a fully closed position, the stabilizing arm rotates in a counter–clockwise direction about the pivot 112, disengages the angle plate 116, and slidably pivots about the roller 102, thus following an irregular curvilinear path different from that of the window.

0) US2860911A – AUTOMOBILE BODY PILLAR AND DOOR CONSTRUCTION

19) Family number: 20093968 (US2860911A) © PatBase

Title: AUTOMOBILE BODY PILLAR AND DOOR CONSTRUCTION

Priority: US19540464201 19541025

Family:

Publication number	Publication date	Application number	Application date
DE1075958 B	19600218	DE1955G018221	19551021
GB773127 A	19570424	GB19550027715	19550929
US2860911 A	19581118	US19540464201	19541025

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** BART COTTER ; COTTER BART

International class (IPC 8–9)**:** B60J10/08 B60J5/04 B62D25/04 E05D5/02 (Advanced/Invention); B60J10/00 B60J5/04 B62D25/04 E05D5/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B62D25/04

CPC: B60J10/80 B62D25/04 B60J5/04 B60J5/0431 E05D5/0207 E05Y2600/626 E05Y2900/531

European class: B60J10/08 B60J5/04 B60J5/04E2B12 B62D25/04 E05D5/02A P05Y600/626 P05Y900/531

US class: 296/146.11 296/146.9 296/202 49/166 49/366

Classification Explorer

Cited documents: US2680645 A, US2532203 A, US2248319 A, US2167664 A, US2061788 A, US1831455 A, FR983890 A, FR516259 A, DE615693 A, DE577330 A, CH194919 A,

Forward Citations: US8555552, US8328269, US7871120, US6129410, US5564775, US5074611, US4716623, US4713862, US4700984, US4700983, US4697842, US4591204, US4018475, US3944278, US3097878, US2013047519, US2012256445, US2012193938, US2009100762, FR2434725, EP1190938, EP1190938, EP0180234,

Abstract:
Source: GB773127A 773,127. Vehicle bodies. GENERAL MOTORS CORPORATION. Sept. 29, 1955, No. 27715/55. Class 108(1). The pillar between'the front and rear doors of an automobile comprises an inboard channel 70 secured to front and rear plates 82, 103 and an internal stiffener 142. The plate 103 is provided with a forward offset defined by surfaces 136, 141, 140 from approximately the belt–line to the region of the lower door hinge to accommodate a projection on the door 10 defined by surfaces 206, 208, 210 thus enabling the window frame 24 for the rear window 16 to be disposed within the transverse planes containing the front and rear surfaces of the door post.

0) US2797958A – ABUTTING FRONT AND REAR DOOR WINDOWSEAL CONSTRU...

20) Family number: 20520170 (US2797958A) © PatBase

Title: ABUTTING FRONT AND REAR DOOR WINDOWSEAL CONSTRUCTION FOR HARD TOP SEDANS

Priority: US19550482137 19550117

Family:

Publication number	Publication date	Application number	Application date
DE1074420 B	00000000		00000000
GB784770 A	19571016	GB19560000814	19560110
US2797958 A	19570702	US19550482137	19550117

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** PODOLAN EDWARD G

International class (IPC 8–9)**:** B60J10/08 B60J5/04 (Advanced/Invention); B60J10/00 B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 E06B3/04

CPC: B60J10/80

European class: B60J10/08 B60J5/04

US class: 49/371 49/480.1 49/483.1

Classification Explorer

Cited documents: US2692792 A, US1962809 A, US1317410 A, GB647756 A, GB454352 A, GB419740 A, GB276839 A, GB276684 A, GB260056 A, FR820462 A, FR1058864 A, FR1047933 A, DE911376 A, DE659705 A, DE583362 A, DE581038 A, DE544462 A, DE391337 A, DE1695246 U, CH176787 A,

Forward Citations: USRE36825, US5581946, US5433031, US4842327, US3959927, US3461611, US3400964, US3160452, US3150422, US3095619, US2938245, US2933784, US2892220, US2008236062, DE1185072,

Abstract:
Source: US2797958A 784,770. Vehicle windows, draught excluders. GENERAL MOTORS CORPORATION. Jan. 10, 1956 [Jan. 17, 1955], No. 814/56. Class 20(3) A vehicle of the four door hard–top sedan type having no centre pillar and no fixed door frame above the body waist line, except for a ventipane window frame 18, is provided with a mechanical seal between the rear vertical frame portion 24 of a vertically slidable front window 12, mounted within a front door 4 hinged at its forward edge to the vehicle body and latched.at its rearward edge to a centre pillar 6, and the front vertical frame portion 26 of a vertically slidable rear window 20 which is mounted and supported within a rear door 8, hinged at its forward edge to the centre pillar 6 and latched at its rearward edge 10 to the vehicle body. The front vertical frame member 26 of the rear window 20 has a dovetail groove 28 which accommodates a frusto–conical sealing strip 32 having a groove 34 defined by two rounded lips 36, 37. The rear vertical frame member 24 of the front window 12 has a T–slot 38 for a metal sealing member 44 which is urged toward the rear by a number of coil compression springs 48 fitted within vertically spaced bores 50 in the sealing member 44 and reacting against the base of the slot 38 so that flanges 46 on the sealing member 44 abut against the shoulders 42 of the T–shaped slot 38. The protruding edge of the sealing member 44 has oblique surfaces 52, 53 terminating in a blunt nose 54 which engages within the groove 34 in the sealing strip 32 when the doors are closed. In a modification the sealing member in the rear frame edge 24 of the front window frame 12 is urged rearward by a number of leaf springs which extend within a channel along the length of the corresponding edge of the sealing member and have their ends bearing against the base of the T–shaped slot, the nose of the sealing member being provided with a groove of semi–circular cross section to receive a bead in the sealing member carried by the forward frame member 28 of the rear window 20.

0) US2805886A – FOLDING PILLAR AND VERTICALLY MOVABLE WINDOW AR...

21) Family number: 22181999 (US2805886A) © PatBase

Title:	FOLDING PILLAR AND VERTICALLY MOVABLE WINDOW ARRANGEMENT FOR VEHICLE BODIES
Priority:	US19550553463 19551216

Family:

Publication number	Publication date	Application number	Application date
US2805886 A	19570910	US19550553463	19551216

Probable Assignee:	GEN MOTORS CORP
Assignee(s):(std):	GEN MOTORS CORP
Assignee(s):	GENERAL MOTORS CORP
Inventor(s):(std):	SEMAR CLAUD S
International class (IPC 8–9):	B60J1/17 E05F11/44 (Advanced/Invention); B60J1/17 E05F11/38 (Core/Invention)
International class (IPC 1–7):	E05F11/44
CPC:	B60J1/17 E05F11/445 E05Y2900/55
European class:	B60J1/17 E05F11/44B P05Y900/550
US class:	49/323 49/351

Classification Explorer

Cited documents:	US2080936 A, US1909168 A, US1752511 A,
Forward Citations:	US3859753, US3816961, US3706236, US2947569,

Abstract:
Source: US2805886A (Claim 1) 1. I In a vehicle–body having a window op–.nitig therein and a body well below said opening, a window supported on said body for movidrnent between an opeil position within said well and a closed positiorl– within sa–_d opening, a body _pillar structur6 movably– supported on –,aid body at one. side of said window for mo,,,ement betweeii aTi out bf the way position and an operating position wi–thin said opening in abutting relationship_with an edge nortion of said window in the closed position thereof, and common operatin.– means alternately operatively connectqble and altefnately non–op_–ratively connectable with said pillar structiire and said window for sequent:al operation and–non–operation thereof.

0) US2828999A – WINDOW ARRANGEMENT FOR VEHICLE BODIES

22) Family number: 21763955 (US2828999A) © PatBase

Title: WINDOW ARRANGEMENT FOR VEHICLE BODIES

Priority: US19560557743 19560106

Family:

Publication number	Publication date	Application number	Application date
US2828999 A	19580401	US19560557743	19560106

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** SCHAMEL CLYDE H ; SEMAR CLAUD S

International class (IPC 8–9)**:** E05F11/38 (Advanced/Invention); E05F11/38 (Core/Invention)

International class (IPC 1–7)**:** B60J1/17 E05F11/38 F16C11/04

CPC: E05F11/382 E05Y2900/55

European class: E05F11/38B P05Y900/550

US class: 296/149 49/136 49/143

Classification Explorer

Cited documents: US2317697 A, US2138838 A, US2131745 A, US2032690 A, US1914066 A, US1826865 A,

Forward Citations: US3086810, US3024062,

Abstract:
Source: US2828999A (Claim 1) What is claimed is: 1. In combination with a vehicle body having Q window opening therein and a window Well below said opening having an entrance thereto, a Strat window mounted on said body for movement to open and closed positions with respect to a portion of said window opening and adapted to close a portion of the entrance of said well in the closed position thereof, a second window supported on saidbody for movement into and out of said well to open and closed positions with respect to an adjacent portion of said win~ dow opening, said second window having an open position Within said Well and a closed position within said opening out of registry with thc entrance of said wel] to allow movement of said first Window to closed position, operadug means for moving each of said windows to open and closed positions, and means controlled by said windows , y ,_ z,s2s,999 ` ` ll 12 in predeterminedpositions thereof for coordinating actuation of said operating means.

0) US2997334A – VEHICLE BODY WINDOW GLASS FRAME STRUCTURE

23) Family number: 22235012 (US2997334A) © PatBase

Title: VEHICLE BODY WINDOW GLASS FRAME STRUCTURE

Priority: US19590823433 19590629

Family:

Publication number	Publication date	Application number	Application date
US2997334 A	19610822	US19590823433	19590629

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR COMPANY

Inventor(s):(std)**:** KRAMER CLARENCE F

International class (IPC 8–9)**:** B60J1/00 (Advanced/Invention); B60J1/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00

CPC: B60J1/007

European class: B60J1/00F4

US class: 49/211 49/34 49/40 49/440

Classification Explorer

Cited documents: US2912727 A, US2844405 A, US2798761 A, US2260997 A, US2120359 A, US1701969 A,

Forward Citations: US2012055841,

Abstract:
Source: US2997334A (Claim 1) 1. In combination, a curved window glass adapted to be raised or lowered relative to a window opening, said window glass having a predetermined curvature through 55 its vertical section and a sag through its horizontal section, said sag reaching a maximum approximately midway of the height of the glass, cushioning means encompassing a peripheral edge of said glass, and a frame structure comprising a substantially U–shaped channel 60 member having a base portion and vertically extending leg portions at each edge thereof, means on at least one of said leg portions effective to maintain the latter in spaced relationship to the adjacent edge of said glass, the outer width of said channel member across said leg por– 65 tions being such that the glass is retained in a position sufficiently inboard of the extreme outer point of sag on the curved surface thereof to permit lowering or raising movements of the glass through a body structure defining said window opening without interference at said extreme 70 outer point of sag, said frame structure in engagement with said body structure maintaining the lateral stability of said glass during said movements.

0) US3006681A – VEHICLE WINDOW STABILIZER

24) Family number: 22540581 (US3006681A) © PatBase

Title: VEHICLE WINDOW STABILIZER

Priority: US19570670901 19570710

Family:

Publication number	Publication date	Application number	Application date
US3006681 A	19611031	US19570670901	19570710

Probable Assignee: ANDERSON CO

Assignee(s):(std)**:** ANDERSON CO

Assignee(s): THE ANDERSON COMPANY

Inventor(s):(std)**:** WISE RALPH H

International class (IPC 8–9): B60J1/17 (Advanced/Invention); B60J1/17 (Core/Invention)

International class (IPC 1–7): B60J1/17

CPC: B60J1/17

European class: B60J1/17

US class: 49/227

Classification Explorer

Cited documents: US2811387 A, US2809827 A, US2775479 A, US2746747 A,

Forward Citations: US6425208, US2007176464,

Abstract:
Source: US3006681A (Claim 1) A movable window construction for an automobile or the like having a body, spaced guide tracks for carrying the window as it is raised and lowered, said tracks being fixedly mounted in the body, said window traversing a generally vertical path into and out of the body and having an endwise movement substantially in the plane of the glass during the raising and lowering thereof, support means cooperating with and extending longitudinally along the bottom of the window, track following means disposed at points spaced along the support means for cooperating with the support means and the tracks during the raising and lowering of the window, means for raising and lowering the window, and stabilizing means for coacting with the window to assist in holding it against displacement relative to the body when the window is projected an appreciable distance out of the body comprising a pair of substantially rigid downwardly extending members, said members being fixed relative to said window support means at spaced points, embracing elements rigidly mounted on the lower end portions of said members, each of said embracing elements being caused to embracingly engage said spaced guide tracks respectively by the motion of said window support means as the window is raised, whereby when the rigid downwardly projecting members and their associated embracing ele– ments engage the relatively fixed guide tracks, the up–vvardly extending window is stabilized.

0) GB247781A – IMPROVEMENTS RELATING TO ANTI–DAZZLE SCREENS OR...

1) Family number: 18212078 (GB247781A) © PatBase

Title: Improvements relating to anti–dazzle screens or attachments for the use of vehicle drivers

Priority: GB19250009546 19250409

Family:

Publication number	Publication date	Application number	Application date
GB247781 A	19260225	GB19250009546	19250409

Probable Assignee: FREDERICK SHIRLEY CORFIELD

Assignee(s):(std)**:** FREDERICK SHIRLEY CORFIELD

International class (IPC 8–9)**:** B60J3/02 (Advanced/Invention); B60J3/02 (Core/Invention)

International class (IPC 1–7)**:** B60J3/02

CPC: B60J3/02

European class: B60J3/02

Classification Explorer

Forward Citations: US4765675, GB2189445, GB2189445,

Abstract:
Source: GB247781A Anti–dazzle screens for drivers.An anti–dazzle screen for protecting the driver of a vehicle comprises a relatively narrow slip blind mounted on the wind–screen in such a manner that it may, against the power of a spring, be slowly drawn down the screen so as contilnuously to interrupt the relatively moving glare, while at the same time allowing the driver a sufficient view of the road. In the construction shown the blind t is carried by a ball–bearing runner–block k slidable vertically within a vertical tube b and operated against the action of a spring l by the pull on a Bowden cable n connected through a sheath o with a. finger on the steering–wheel. The blind shown consists of three metallic leaves u, v, w having interposed leaf springs 8, z and connected by pins 10 and slots 11 so that the blind is extended to its full width when pulled downwardly, the lowest member u being carried by the block k and made of channel section so as to receive the other members v, w when the blind is in its uppermost or collapsed position. An horizontal bracket d formed integral with the tube b serves for attaching the blind to the upper edge of and either in front of or behind the wind–screen a, the former position being adopted when a screen–wiping flap x is attached to the member u. An additional guide 12 may be arranged at the free edges of the leaves of the blind. The blind may alternatively consist of a single fabric strip adapted to wind by tapes upon a spring roller.

0) GB261307A – IMPROVEMENTS IN WINDSCREENS FOR VEHICLES

2) Family number: 18286625 (GB261307A) © PatBase

Title: IMPROVEMENTS IN WINDSCREENS FOR VEHICLES

Priority: GB19260017114 19260708

Family:

Publication number	Publication date	Application number	Application date
GB261307 A	19261118	GB19260017114	19260708

Probable Assignee: EDWARD AXELSON HELLSTRAND

Assignee(s):(std)**:** EDWARD AXELSON HELLSTRAND

International class (IPC 8–9)**:** B60J10/02 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/04

CPC: B60J10/70

European class: B60J10/02

Classification Explorer

Forward Citations: US5907469,

Abstract:
Source: GB261307A 261,307. Hellstrand, E. A. July 8, 1926. Windscreens.–In order to prevent strains due to the lateral rocking of the supporting pillars of a vehicle wind–screen being transmitted to the screen itself and to avoid the provision of a heavy screen frame which would increase the obstruction to the driver's view caused bv the pillars, the screen 4 is pivoted directly to the upper ends of the pillars 2 so as to lie in a plane in advance of the pillars with the vertical members of the screen frame 7 situated immediately in front of the pillars. Preferably, the screen pivot is constituted by a transverse rod 6 extending between forwardly projecting lugs 3 on the upper ends of the pillars. The screen frame 7 is of light construction and is surrounded on its lower and vertical edges with a single or separate draught excluding strips 10, 12 co–operating with the scuttle 9 and pillars 2 respectively. An additional rubber or like strip 8 is arranged on the scuttle to contact with the inner side of the screen frame. When the screen comprises two panels arranged to form a V, draught excluding strips are also provided at the junction of the meeting vertical edges, and an additional central supporting pillar may also be incorporated. The side panels 13 are attached to the pillars 2 by means of tubular hinge members 20, Fig. 5, having flanges 21 to which the side screen frames 19 may be detachably bolted. In addition to or instead of the bolts 22 and flanges 21 the edges of the screen frames may be provided with dovetails 23 engaging corresponding grooves 24 in the hinge members 20, thus allowing the screens to be removed by a vertical sliding movement relative to the pillars.

0) US1711010A – CONVERTIBLE BODY

3) Family number: 19911195 (US1711010A) © PatBase

Title: CONVERTIBLE BODY

Priority: US19240750356 19241117

Family:

Publication number	Publication date	Application number	Application date
US1711010 A	19290430	US19240750356	19241117

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** ROSCOE BERINGER

Inventor(s): BERINGER ROSCOE

International class (IPC 8–9)**:** B60J1/08 (Advanced/Invention); B60J1/08 (Core/Invention)

International class (IPC 1–7)**:** B60P3/42

CPC: B60J1/085

European class: B60J1/08B

US class: 296/139 296/148 296/149 49/166

Classification Explorer

Forward Citations: US4716682,

Abstract:
Source: US1711010A 1. A vehicle door having sockets at its iippei' edge, a panel lislving siipportiin; posts vxtezidiiigg into the esoclrets. a ifockslieft having; cams IIIfl3TSC(’–llllllg the sockets to grip the posts, and means for rocking the shaft.

0) GB310626A – IMPROVEMENTS IN OR RELATING TO BODIES FOR MOTOR...

4) Family number: 18633024 (GB310626A) © PatBase

Title: Improvements in or relating to bodies for motor vehicles

Priority: GB19280008801 19280323

Family:

Publication number	Publication date	Application number	Application date
GB310626 A	19290502	GB19280008801	19280323

Probable Assignee: LEONARD THOMAS TAYLOR

Assignee(s):(std)**:** LEONARD THOMAS TAYLOR

International class (IPC 8–9)**:** B60J5/06 (Advanced/Invention); B60J5/06 (Core/Invention)

International class (IPC 1–7)**:** B60J5/06 B62D31/00

CPC: B60J5/06

European class: B60J5/06

Classification Explorer

Forward Citations: US2548950, US2459502, EP0504767, DE1236352, DE1148460, DE1140092,

Abstract:
Source: GB310626A Doors for passenger vehicles.–Sliding doors for giving free access at one or both sides to the seats of a motor vehicle are supported along their upper and lower edges in guides carried by the sides of the body so as to slide forwardly substantially in the planes of these sides. In the construction shown the doors a of a saloon car are adapted to slide forwardly into the spaces between the bonnet and side wings, and are provided along their upper edges with T–headed rails d sliding in slots in guide channels e secured to the body cantrail and along their lower edges with rails f fitted with rollers h running in channels g. The doors and guides may either be plane or, as shown, of a uniform slight curvature. In their closed positions, watertight joints are maintained by means of strips j on the front edges of the doors co–operating with recesses on the front pillars k, while the near edges of the doors are stepped at l to engage complementary steps m on the body frame. In the case of a touring car, each upper guide consists of a channel member extending rearwardly and horizontally from the windscreen to a point above the front edge of the rear seats, whence it is carried down to the chassis.

0) GB332725A – VEHICLE BODIES

5) Family number: 18685079 (GB332725A) © PatBase

Title: Vehicle bodies

Priority: GB19290021047 19290709

Family:

Publication number	Publication date	Application number	Application date
GB332725 A	19300731	GB19290021047	19290709

Probable Assignee: JAMES DIXON KILSHAW

Assignee(s):(std)**:** JAMES DIXON KILSHAW

International class (IPC 8–9)**:** B60J5/04 (Advanced/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: B60J5/0479

European class: B60J5/04H5B

Classification Explorer

Abstract:
Source: GB332725A 332,725. Kilshaw, J. D. July 9, 1929. Doors for passenger vehicles.–In a road vehicle body of the type having two doors 2, 3 on the same side hinged at their remote edges 4, 5 and interconnected for movement in unison, their other edges 8, 9 abutting when closed, the connecting–means comprises linkwork resiliently connected to one of the doors. In one form a slidable link 16 is pivoted at its ends to links 12, 19, the link 12 being hinged to the door 2 and the link 19 pivoted at 18 to a C–shaped spring 22 fixed to the door 3. With closed bodies the links 12, 19 are situated in recesses 13, 20 in the tops of the doors while the link 16 slides in a. recess on the roof cantrail. A single handle 24 actuates means to lock both doors. In a modification a single link may be employed directly connecting the front door and the spring 22.

0) GB339004A – IMPROVEMENTS IN OR RELATING TO WIND–SCREENS FOR...

6) Family number: 18785584 (GB339004A) © PatBase

Title: Improvements in or relating to wind–screens for motor vehicles

Priority: GB19290027447 19290910

Family:

Publication number	Publication date	Application number	Application date
GB339004 A	19301204	GB19290027447	19290910

Probable Assignee: PERFECTA MOTOR EQUIPMENTS LTD

Assignee(s):(std): PERFECTA MOTOR EQUIPMENTS LTD ; VICTOR HARRY PINSON

Assignee(s): PERFECTA MOTOR EQUIPMENTS LIMITED

International class (IPC 8–9): E05C17/30 (Advanced/Invention); E05C17/00 (Core/Invention)

International class (IPC 1–7): B60J1/04

CPC: E05C17/30

European class: E05C17/30

Classification Explorer

Abstract:
Source: GB339004A Stays.–An additional stay for a windscreen by which the screen is held slightly open or is drawn tightly closed, comprises a pivoted member which is adapted to be clamped either by its tail k or around its recess j by a clamping–nut g of a telescopic stay c, e. The clamp comprises a screwed stud f, which projects from the arm c through a slot in the arm e, and a shouldered washer h which is adapted to fit the recess j. The pivoted member is provided with a. stop n behind which a spring may be adapted to snap.

0) US1847558A – DOORCHECK

7) Family number: 19786943 (US1847558A) © PatBase

Title:	DOORCHECK
Priority:	US19290403310 19291029

Family:

Publication number	Publication date	Application number	Application date
US1847558 A	19320301	US19290403310	19291029

Probable Assignee:	WILLYS OVERLAND CO
Assignee(s):(std):	WILLYS OVERLAND CO
Assignee(s):	THE WILLYS OVERLAND COMPANY
Inventor(s):(std):	GRIMM GEORGE E
International class (IPC 8–9):	E05C17/20 (Advanced/Invention); E05C17/00 (Core/Invention)
International class (IPC 1–7):	B60J5/00
CPC:	E05C17/20 Y10T16/61
European class:	E05C17/20
US class:	16/82

Classification Explorer

Abstract:
Source: US1847558A 1. A combination with a vehicle body pil~ lar and a door~pillar hinged thereto arranged to have their inner surfaces substantially aligned when in their normal position; of u door check comprising a substantially inflexible strap mounted on one of said pillars and hinged to the other; a plate secured to the door–pillar for guiding said strap, said strap having a bent–up portion adjacent its free end acting as a movement limiting means for said door–pillar; and resilient means interposed between the strap and doorpillar for constantly urging the strap into Contact with the plate.

0) GB406613A – IMPROVEMENTS IN OR RELATING TO VEHICLE BODIES

8) Family number: 19717175 (GB406613A) © PatBase

Title: IMPROVEMENTS IN OR RELATING TO VEHICLE BODIES

Priority: GB19330028325 19331013

Family:

Publication number	Publication date	Application number	Application date
GB406613 A	19340301	GB19330028325	19331013

Probable Assignee: AMBI BUDD PRESSWERK GMBH

Assignee(s):(std)**:** AMBI BUDD PRESSWERK GMBH

Assignee(s): AMBI BUDD PRESSWERK G M B H

International class (IPC 8–9)**:** E05C9/04 (Advanced/Invention); E05C9/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: E05C9/043

European class: E05C9/04

Classification Explorer

Forward Citations: US3034826, US2895763, FR2513298,

Abstract:
Source: GB406613A 406,613. Door fastenings. PRESSED STEEL CO. OF GREAT BRITAIN, Ltd., Cowley, Oxford.–(Ambi–Budd Presswerk Ges.; Johanisthal, Berlin.) Oct. 13, 1933, No. 28325. [Class 44.] In saloon vehicles having two doors at each side adapted to close towards one another without an intervening pillar and provided with lock mechanism adapted to engage the upper and lower horizontal frame members of the vehicle the adjacent edges of the doors are provided with means whereby the doors are held tightly against one another in the closed position. The doors 11, 12 are hinged at their remote edges and meet without intervening pillar. The door 11 comprises rails 18–21 with inner and outer panels and the door 12 is similarly constructed, while the adjacent rails 20, 24 are provided with off–set portions 27, 31 in which are mounted tightening strips 28, 32 of rubber. The locking arrangements comprise pivoted latches at the upper and lower parts of each door engaging the cant rail and the sill. The upper latch 36 which is spring–pressed engages a striking plate having a rack 41, while the lower latch 37, engaging by gravity, projects through the outer face of the sill 46 and engages a striking plate 49. The latches are linked by links 42, 50 to sliding plates 45, 52, Fig. 4, having pin and slot connection to a two–armed lever 53 mounted on the spindle 54 which also carries an arm 55 connected to the inner handle and a member 56 connected to the outer handle. A dog 60 with spring 59 engages a shoulder 61 to prevent disengagement of the locks, the dog 60 being withdrawn when necessary by means of a rotary member 62 operated from inside the door.

0) GB419740A – IMPROVEMENTS IN AND RELATING TO SLIDING WINDOWS...

9) Family number: 20224464 (GB419740A) © PatBase

Title: IMPROVEMENTS IN AND RELATING TO SLIDING WINDOWS FOR MOTOR OR OTHER VEHICLES

Priority: GB19330014414 19330518

Family:

Publication number	Publication date	Application number	Application date
GB419740 A	19341119	GB19330014414	19330518

Probable Assignee: MARTIN WALTER LTD

Assignee(s):(std)**:** ERNEST METCALFE ; MARTIN WALTER LTD

Assignee(s): MARTIN WALTER LIMITED

International class (IPC 8–9)**:** B60J10/04 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/17

CPC: B60J10/74

European class: B60J10/04

Classification Explorer

Forward Citations: US2938245, US2797958,

Abstract:
Source: GB419740A 419,740. Vehicle windows; frames; preventing rattle. METCALFE, E., 44, Alder Road, and WALTER, Ltd., M., 145, Sandgate Road, both in Folkestone, Kent. May 18, 1933, No. 14414. [Class 20 (iii).] Pairs of sliding vehicle windows are adapted to move in inclined guides 1, 2 in the vehicle doors or body so that the vertical edges 9 of the panels may engage when raised. A rubber or other bead may be provided on the meeting edge of one panel and the inclined extensions of the panel frame may have rollers 11 engaging the sides of the frame guides in the well to prevent vibration, the rollers being carried by plates secured to the frame at points where the panel is recessed. The meeting point of the inclined guides is preferably arranged below the top of well, but if above the well the triangular gap between the sashes when closed may be filled by a removable piece.

0) GB422215A – IMPROVEMENTS RELATING TO WINDOWS

10) Family number: 20281468 (GB422215A) © PatBase

Title: Improvements relating to windows

Priority: GB19330020666 19330722

Family:

Publication number	Publication date	Application number	Application date
GB422215 A	19350108	GB19330020666	19330722

Probable Assignee: HERBERT LINWOOD SLEIGH

Assignee(s):(std)**:** ARTHUR SAM CHESTON ; FREDERICK JOSEPH STUART ; HERBERT LINWOOD SLEIGH

International class (IPC 8–9)**:** E05F11/38 (Advanced/Invention); E05F11/38 (Core/Invention)

International class (IPC 1–7)**:** B60J1/14 E05F11/38

CPC: E05F11/382 E05Y2900/506 E05Y2900/55

European class: E05F11/38B P05Y900/506 P05Y900/550

Classification Explorer

Forward Citations: WO8807617, US2572764,

Abstract:
Source: GB422215A 422,215. Window holders. SLEIGH, H. L., CHESTON, A. S., and STUART, F. J., Widney Works, Bagot Street, Birming– ham. July 22, 1933, Nos. 20666/33 and 14364/34. [Class 44] [See also Group X] A sliding sash 23 is held in any required position by the engagement of pawls 27 on a rock shaft 26 with fixed rackbars 30, in the manner described in Specification 374,129.

0) GB449825A – IMPROVEMENTS IN MOTOR VEHICLES

11) Family number: 20450793 (GB449825A) © PatBase

Title: Improvements in motor vehicles

Priority: GB19350009109 19350323

Family:

Publication number	Publication date	Application number	Application date
GB449825 A	19360706	GB19350009109	19350323

Probable Assignee: FRANCIS BRIAN SYLVESTER GRIMST

Assignee(s):(std)**:** FRANCIS BRIAN SYLVESTER GRIMST

Assignee(s): FRANCIS BRIAN SYLVESTER GRIMSTON

International class (IPC 8–9)**:** B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00

CPC: B60J1/14

European class: B60J1/14

Classification Explorer

Forward Citations: US2596355, DE946951,

Abstract:
Source: GB449825A 9109. [Classes 103 (ii) and 108 (i)] [See also Group X] A motor vehicle having a movable hood adapted to be moved between an " up " position in which it forms a roof and a " down position at the rear of the vehicle is provided with a movable window at each side adapted to be housed in a " down " position in the body of the vehicle and arranged for movement about a horizontal pivot As. shown the hood 1 is movable by means of side links and c. from the position shown in Fig. 1, to a position in which it rests on the tonneau 2 and a pair of doors 3, 4 are hinged at each side to a central pillar by hinges 15. In the front door 3 is housed a window 6 adapted to be movable vertically and in the rear door 4 a window 11 with frame 12, 13 is pivoted at 14 so as to swing as shown. The window is preferably operated by a link 22, quadrant 19, pinion 21 and hand crank and the window and frame is offset at 12 <1> to overlap the central pillar and either abut against or overlap the rear edge of the front window 6. A transverse screen 23 with foldable side flaps 30 is provided to co–operate with the windows 11 when the hood is lowered and is adapted to be lowered into a housing 24 which is pivoted at 25 whereby the screen 23 may be adjusted towards the windows 16. Specification 445,188 is referred to.

0) US2552503A – DOOR AND WINDOW STRUCTURE FOR CONVERTIBLE BODIE...

12) Family number: 22135615 (US2552503A) © PatBase

Title: DOOR AND WINDOW STRUCTURE FOR CONVERTIBLE BODIES

Priority: US19470793272 19471222 US19510222254 19510421

Family:

Publication number	Publication date	Application number	Application date
US2552503 A	19510508	US19470793272	19471222
US2596356 A	19520513	US19510222254	19510421

Probable Assignee: ACKERMANS JOHN W J

Assignee(s):(std)**:** ACKERMANS JOHN W J

Inventor(s):(std)**:** ACKERMANS JOHN W J

International class (IPC 8–9)**:** B60J1/14 B60J1/17 B60J5/04 (Advanced/Invention); B60J1/12 B60J1/17 B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00

CPC: B60J1/14 B60J5/0402 B60J1/17

European class: B60J1/14 B60J1/17 B60J5/04B2

US class: 296/149

Classification Explorer

Cited documents: US2552503 A, US2403061 A, US2356403 A, US2211665 A, US2135215 A, US2132688 A, US2129921 A, US2023238 A, US1973219 A, US1880208 A, US1826865 A, US1753795 A, US1721875 A, US1606675 A,

Forward Citations: US4567636, US3138283, US2761183, US2596356,

Abstract:
Source: US2552503A (Claim 1) 1. A vehicle body having at each side a lower center pillar and two doors provided with windows spaced from each other longitudinally of the body, a permanently erected transparent panel dispose,d between said windows and having edges formed with a groove, an insert in said grbove, supporting means on one of said doors for carrying said panel, removable fastening mechariism coacting with said supporting means and with said insert for retaining said panel, and weatherstripping secured to at least one side of said insert by said fastening mechanism, said supporting means comprising a guide channel for sliding one of said windows from a closed position to an open position,.

13) Family number: 19960523 (GB687458A) © PatBase

Title: IMPROVEMENTS IN AND RELATING TO AUTOMOBILE BODIES

Family:

Publication number	Publication date	Application number	Application date
GB687458 A	19530211	GB19510015539	19510629

Probable Assignee: BRIGGS MFG CO

Assignee(s):(std)**:** BRIGGS MFG CO

Assignee(s): BRIGGS MANUFACTURING CO

International class (IPC 8–9)**:** B60J5/04 B62D25/04 E05D5/02 (Advanced/Invention); B60J5/04 B62D25/04 E05D5/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: E05Y2900/531 B62D25/04 B60J5/0431 E05D5/0207 E05Y2600/626

European class: B60J5/04 B60J5/04E2B12 B62D25/04 E05D5/02A P05Y600/626

Classification Explorer

Forward Citations: US5472258, FR2949805,

Abstract:
Source: GB687458A 687,458. Road vehicle bodies. BRIGGS MANUFACTURING CO. June 29, 1951 [Aug. 18, 1950], No. 15539/51. Class 108 (i). An intermediate body pillar has greater thickness longitudinally of the body on the outside than on the inside. The pillar comprises sheet–metal members 27, 28 secured by their flanges 33, 28b and closed on the inside by a channel member 38. Secured to appropriate parts are hinge brackets of generally L–section having a short outer leg 35 and a longer inwardly extending leg 36 provided with an embossment 36a to which the channel–like hinge mounting 48 is secured by screws 52. The mounting 48 carries the hinge pin 47 on which the goose–neck type hinge 46 supporting the rear door C is mounted. The cross–section of the pillar is larger in the lower part than in the upper part in the neighbourhood of the door window.

0) US2677572A – VEHICLE BODY WINDCORD AND TRIM MOUNTING MEANS

14) Family number: 20563111 (US2677572A) © PatBase

Title: VEHICLE BODY WINDCORD AND TRIM MOUNTING MEANS

Priority: US19510207513 19510124

Family:

Publication number	Publication date	Application number	Application date
GB697073 A	19530916	GB19520001631	19520121
US2677572 A	19540504	US19510207513	19510124

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR CO LTD ; FORD MOTOR COMPANY ; FORD MOTOR COMPANY LIMITED

Inventor(s):(std)**:** PICKARD EDWIN C

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00

CPC: B60J10/80

European class: B60J10/08

US class: 296/206 49/500.1

Classification Explorer

Cited documents: US2536863 A, US2383575 A, US2356976 A, US2051757 A, US1896632 A, GB541917 A, FR864869 A,

Forward Citations: US4549761, US3198572, US3090645, US3021172, US3019049, US2994555, US2967072, US2787493,

Abstract:
Source: GB697073A 697,073. Draught excluders. FORD MOTOR CO.. Ltd. Jan. 21. 1951 [Jan. 24. 1951], No. 1631/52. Class 20(iii) A windcord, for a vehicle body, having an enlarged cylindrical sealing portion 33, Fig. 2, formed of resilient material such as sponge rubber and a smaller beaded portion 34 formed of hard rubber or cording spaced from portion 33 and connected thereto by a reinforcing strip 36 covered by fabric 37 is clamped against the inwardly extending flanges 17, 18 of the body structure by a continuous metal strip 23 provided with holes 26 registering with tabs 22 struck up from the body member; the marginal edge of the clamping strip 23 lying adjacent the windcord to clamp, it in place. The strip 23 has flanges 27, 28 to receive the edge of a trim panel 31. As applied to mounting the windcord at the windshield pillar, the clamping strip has no spaced flanges for receiving a trim. panel. In the mounting arrangement adjacent the roof rail 51, Fig. 7, the clamping strip 57 having a base 58. provided with holes for receiving tabs 59 struck from the body member 53, is formed with a rolled edge 63 for clamping the windcord against flanges 54, 56. A plurality of triangular barbs 64 struck out from the clamping strip 57 pierce the fabric headlining 67 of the vehicle to anchor it.

0) US2680645A – AUTOMOBILE BODY PILLAR AND DOOR

15) Family number: 22142271 (US2680645A) © PatBase

Title: AUTOMOBILE BODY PILLAR AND DOOR

Priority: US19500180231 19500818

Family:

Publication number	Publication date	Application number	Application date
US2680645 A	19540608	US19500180231	19500818

Probable Assignee: BRIGGS MFG CO

Assignee(s):(std)**:** BRIGGS MFG CO

Assignee(s): BRIGGS MANUFACTURING COMPANY

Inventor(s):(std)**:** BRILL HERBERT C

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B62D25/04

CPC: Y10T16/5525 Y10T16/5595 B60J10/80

European class: B60J10/08

US class: 16/379 16/389 296/206 49/484.1 49/500.1

Classification Explorer

Cited documents: USRE19416 E, US2532203 A, US2342531 A, US2326789 A, US2314337 A, US2121790 A, US1622098 A,

Forward Citations: US3944278, US3097878, US2860911, US2775478, DE1147496,

Abstract:
Source: US2680645A (Claim 1) 1. In a vehicle body, an interraediate body pillar havip–g a rear face comprising a jamb fbr. a rear door, a rear door hingedly4 connected to s–,_id P–lilar and, having a window in its upper poytion, said jamb and juxi.–aposed portion of the closed door below –the window being offset later– 4o ally outward a7–id _ rearward of. the upper portion of said jarr_b at the_ windovi level.

0) US2719749A – MOTOR VEHICLE WINDSHIELD PILLAR CONSTRUCTION

16) Family number: 22397454 (US2719749A) © PatBase

Title: MOTOR VEHICLE WINDSHIELD PILLAR CONSTRUCTION

Priority: US19540417256 19540319

Family:

Publication number	Publication date	Application number	Application date
US2719749 A	19551004	US19540417256	19540319

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR COMPANY

Inventor(s):(std)**:** PULLEYBLANK AUBREY V ; RICHARDS JESSE W

International class (IPC 8–9)**:** B60J10/00 B62D25/04 (Advanced/Invention); B60J10/00 B62D25/04 (Core/Invention)

International class (IPC 1–7)**:** B60H1/00

CPC: B60J10/00 B62D25/04

European class: B60J10/00 B62D25/04

US class: 296/200 296/93 296/96.21 49/391

Classification Explorer

Cited documents: US2620221 A,

Forward Citations: US5772277, US4807925, US3526426, US3155420, US2817559,

Abstract:
Source: US2719749A (Claim 1) 1. In a motor vehicle body construction, a windshield pillar at each side of said body having inner and outer pillar sections welded together along their marginal edges, said windshield pillar having a generally vertically extending upper portion and a forwardly and downwardly curved lower portion, the forward ends of said inner and outer pillar sections being substantially horizontal, a door hinge pillar at each side of said body having a Vertical door supporting portion and a generally horizontal rearwardly projecting portion with the latter being welded to the forward end of said outer windshield pillar section, a side cowl panel extending generally horizontally and longitudinally and having its forward end welded to said door hinge pillar and its rearward end welded to the inner windshield pillar section, said door hinge pillar and said side cowl panel forming a structural support for said windshield pillar, and an upper cowl panel extending transversely across said vehicle body and having its outer portions supported upon said door hinge pillars, said upper cowl panel having an upper flange generally arcuate in plan and conforming to the curvature of the windshield and extending transversely of the vehicle body between the windshield pillars at opposite sides thereof, said upper cowl Range intersecting said windshield pillars adjacent the juncture between the generally vertical upper portion of each windshield pillar and the forwardly and downwardly curved lower portion of each windshield pillar to form with the upper portions of said windshield pillars the windshield opening and to conceal from view the lower curved portions of said windshield pillars.

0) GB765044A – IMPROVEMENTS IN OR RELATING TO MOTOR–VEHICLE BO...

17) Family number: 19799016 (GB765044A) © PatBase

Title: IMPROVEMENTS IN OR RELATING TO MOTOR–VEHICLE BODY–CONSTRUCTIONS

Priority: 19540319 GB19550008005 19550318

Family:

Publication number	Publication date	Application number	Application date
GB765044 A	19570102	GB19550008005	19550318

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR CO LTD ; FORD MOTOR COMPANY LIMITED

International class (IPC 8–9)**:** B60J10/02 B62D25/08 (Advanced/Invention); B60J10/02 B62D25/08 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B62D25/08

CPC: B62D25/081 B60J10/70

European class: B60J10/02 B62D25/08B

Classification Explorer

Forward Citations: WO09098579, US7946645,

Abstract:
Source: GB765044A 765,044. Vehicle bodies. FORD MOTOR CO., Ltd. March 18, 1955 [March 19, 1954], No. 8005/55. Class 108(1). To obtain relatively sharp corners adjacent the windshield pillar in a vehicle with a wraparound windshield without undue stress concentrations the pillar 19 at its upper end penetrates the roof rail 44 and has its outer section 27 provided with a flange 51 welded to the outer roof rail section 52 and its inner section 26 provided with an extension flange 57 welded between the flanges 53 and 56 of the inner and outer roof rail sections. At the lower end the pillar sections, Fig. 2, are curved forwardly and are secured to the forward door pillar 66 by welding together flanges 63 and 72 and flange 62 to the rearward wall 74 of the door pillar. The inner side of the door pillar 66 is completed by a side cowl panel 76 having a flange 77 for attachment to the flange 72 and being secured to flanges 79, 81 formed on the forward face 67 of the door pillar. The joint between the windshield and door pillars is concealed by cowl panel 16 and by the reinforcement panel 97.

0) GB772128A – IMPROVEMENTS RELATING TO VEHICLE WINDOW ASSEMBL...

18) Family number: 20016438 (GB772128A) © PatBase

Title: Improvements relating to vehicle window assemblies

Priority: 19541025

Family:

Publication number	Publication date	Application number	Application date
GB772128 A	19570410	GB19550029180	19551013

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

International class (IPC 8–9): B60J1/17 (Advanced/Invention); B60J1/17 (Core/Invention)

CPC: B60J1/17

European class: B60J1/17

Classification Explorer

Forward Citations: FR2972391, DE3116917,

Abstract:
Source: GB772128A 772,128. Vehicle windows. GENERAL MOTORS CORPORATION. Oct. 13, 1955 [Oct. 25, 1954], No. 29180/55. Class 20(3) A rear quarter drop window 30 for a hardtop sedan type of vehicle which is pillarless above the waistline and therefore must have its entire support for the window located within a window well 32, is mounted on curved guides 46, 58 for vertical movement in a slantwise path into and out of the well 32 formed between laterally spaced inner and outer panels 34, 36 of the door, and is provided with a stabilizer which resists lateral sway of the window in its raised position and comprises a rail 98 which is pivoted to the lower rail of a frame 38 for the window and is slidably engaged by a fixed roller member 102 so that during opening, or closing movement of the window the rail turns about its pivot and slides along the member 102. The stabilizer arm 98 includes a U–shaped channel 100 which slidingly receives the headed roller 102 which is carried by a bolt 104 adjustably secured to a channel 106 extending horizontally along the outer door panel 36 and secured, with rubber pads 108, at its ends to the door edges. A U–shaped channel 110, welded to the upper end of the channel 100, is pivoted by a rivet 112 to a plate 114 which carries an angle plate 116 to form, with the outer face of the plate 114, a channel to interlock with one upper side of the channel 110 when the window is raised and sealed against the rear edge 40 of a front window 42 and against a roof panel 20. Front and rear rollers 74, 76, projecting from the inner side of the lower edge of the window frame, engage the tracks 46, 58, which are mounted by brackets 48, 50 and 60, 62, to the inner door panel 34, a bracket 56, and a lip 68 on the bracket 62, acting as stops for.the bottom rail of the window frame 38 when the window is lowered. Mechanism for moving the window includes a reversible motor 94 which swings an operating arm 84 which is pivoted at one end at 86 to a frame 88 secured to the inner door panel 34 and carries on its free end a roller 82 which slidingly engages a channel 80 secured to the lower rail of the window frame 38. Additional lateral stability of the window in the raised position is achieved by a tongue 120 which is adjustably secured to the front member of the door frame for interlocking engagement, when the window is in its fully open position, with a grooved bracket 128 which is adjustably secured to the forward edge of the window frame 38. During the rearward and downward movement of the window from a fully closed position, the stabilizing arm rotates in a counter–clockwise direction about the pivot 112, disengages the angle plate 116, and slidably pivots about the roller 102, thus following an irregular curvilinear path different from that of the window.

0) US2860911A – AUTOMOBILE BODY PILLAR AND DOOR CONSTRUCTION

19) Family number: 20093968 (US2860911A) © PatBase

Title: AUTOMOBILE BODY PILLAR AND DOOR CONSTRUCTION

Priority: US19540464201 19541025

Family:

Publication number	Publication date	Application number	Application date
DE1075958 B	19600218	DE1955G018221	19551021
GB773127 A	19570424	GB19550027715	19550929
US2860911 A	19581118	US19540464201	19541025

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** BART COTTER ; COTTER BART

International class (IPC 8–9)**:** B60J10/08 B60J5/04 B62D25/04 E05D5/02 (Advanced/Invention); B60J10/00 B60J5/04 B62D25/04 E05D5/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B62D25/04

CPC: B60J10/80 B62D25/04 B60J5/04 B60J5/0431 E05D5/0207 E05Y2600/626 E05Y2900/531

European class: B60J10/08 B60J5/04 B60J5/04E2B12 B62D25/04 E05D5/02A P05Y600/626 P05Y900/531

US class: 296/146.11 296/146.9 296/202 49/166 49/366

Classification Explorer

Cited documents: US2680645 A, US2532203 A, US2248319 A, US2167664 A, US2061788 A, US1831455 A, FR983890 A, FR516259 A, DE615693 A, DE577330 A, CH194919 A,

Forward Citations: US8555552, US8328269, US7871120, US6129410, US5564775, US5074611, US4716623, US4713862, US4700984, US4700983, US4697842, US4591204, US4018475, US3944278, US3097878, US2013047519, US2012256445, US2012193938, US2009100762, FR2434725, EP1190938, EP1190938, EP0180234,

Abstract:
Source: GB773127A 773,127. Vehicle bodies. GENERAL MOTORS CORPORATION. Sept. 29, 1955, No. 27715/55. Class 108(1). The pillar between'the front and rear doors of an automobile comprises an inboard channel 70 secured to front and rear plates 82, 103 and an internal stiffener 142. The plate 103 is provided with a forward offset defined by surfaces 136, 141, 140 from approximately the belt–line to the region of the lower door hinge to accommodate a projection on the door 10 defined by surfaces 206, 208, 210 thus enabling the window frame 24 for the rear window 16 to be disposed within the transverse planes containing the front and rear surfaces of the door post.

0) US2797958A – ABUTTING FRONT AND REAR DOOR WINDOWSEAL CONSTRU...

20) Family number: 20520170 (US2797958A) © PatBase

Title: ABUTTING FRONT AND REAR DOOR WINDOWSEAL CONSTRUCTION FOR HARD TOP SEDANS

Priority: US19550482137 19550117

Family:

Publication number	Publication date	Application number	Application date
DE1074420 B	00000000		00000000
GB784770 A	19571016	GB19560000814	19560110
US2797958 A	19570702	US19550482137	19550117

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** PODOLAN EDWARD G

International class (IPC 8–9)**:** B60J10/08 B60J5/04 (Advanced/Invention); B60J10/00 B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 E06B3/04

CPC: B60J10/80

European class: B60J10/08 B60J5/04

US class: 49/371 49/480.1 49/483.1

Classification Explorer

Cited documents: US2692792 A, US1962809 A, US1317410 A, GB647756 A, GB454352 A, GB419740 A, GB276839 A, GB276684 A, GB260056 A, FR820462 A, FR1058864 A, FR1047933 A, DE911376 A, DE659705 A, DE583362 A, DE581038 A, DE544462 A, DE391337 A, DE1695246 U, CH176787 A,

Forward Citations: USRE36825, US5581946, US5433031, US4842327, US3959927, US3461611, US3400964, US3160452, US3150422, US3095619, US2938245, US2933784, US2892220, US2008236062, DE1185072,

Abstract:
Source: US2797958A 784,770. Vehicle windows, draught excluders. GENERAL MOTORS CORPORATION. Jan. 10, 1956 [Jan. 17, 1955], No. 814/56. Class 20(3) A vehicle of the four door hard–top sedan type having no centre pillar and no fixed door frame above the body waist line, except for a ventipane window frame 18, is provided with a mechanical seal between the rear vertical frame portion 24 of a vertically slidable front window 12, mounted within a front door 4 hinged at its forward edge to the vehicle body and latched.at its rearward edge to a centre pillar 6, and the front vertical frame portion 26 of a vertically slidable rear window 20 which is mounted and supported within a rear door 8, hinged at its forward edge to the centre pillar 6 and latched at its rearward edge 10 to the vehicle body. The front vertical frame member 26 of the rear window 20 has a dovetail groove 28 which accommodates a frusto–conical sealing strip 32 having a groove 34 defined by two rounded lips 36, 37. The rear vertical frame member 24 of the front window 12 has a T–slot 38 for a metal sealing member 44 which is urged toward the rear by a number of coil compression springs 48 fitted within vertically spaced bores 50 in the sealing member 44 and reacting against the base of the slot 38 so that flanges 46 on the sealing member 44 abut against the shoulders 42 of the T–shaped slot 38. The protruding edge of the sealing member 44 has oblique surfaces 52, 53 terminating in a blunt nose 54 which engages within the groove 34 in the sealing strip 32 when the doors are closed. In a modification the sealing member in the rear frame edge 24 of the front window frame 12 is urged rearward by a number of leaf springs which extend within a channel along the length of the corresponding edge of the sealing member and have their ends bearing against the base of the T–shaped slot, the nose of the sealing member being provided with a groove of semi–circular cross section to receive a bead in the sealing member carried by the forward frame member 28 of the rear window 20.

0) US2805886A – FOLDING PILLAR AND VERTICALLY MOVABLE WINDOW AR...

21) Family number: 22181999 (US2805886A) © PatBase

Title: FOLDING PILLAR AND VERTICALLY MOVABLE WINDOW ARRANGEMENT FOR VEHICLE BODIES

Priority: US19550553463 19551216

Family:

Publication number	Publication date	Application number	Application date
US2805886 A	19570910	US19550553463	19551216

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** SEMAR CLAUD S

International class (IPC 8–9): B60J1/17 E05F11/44 (Advanced/Invention); B60J1/17 E05F11/38 (Core/Invention)

International class (IPC 1–7): E05F11/44

CPC: B60J1/17 E05F11/445 E05Y2900/55

European class: B60J1/17 E05F11/44B P05Y900/550

US class: 49/323 49/351

Classification Explorer

Cited documents: US2080936 A, US1909168 A, US1752511 A,

Forward Citations: US3859753, US3816961, US3706236, US2947569,

Abstract:
Source: US2805886A (Claim 1) 1. I In a vehicle–body having a window op–.nitig therein and a body well below said opening, a window supported on said body for movidrnent between an opeil position within said well and a closed positiorl– within sa–_d opening, a body _pillar structur6 movably– supported on –,aid body at one. side of said window for mo,,,ement betweeii aTi out bf the way position and an operating position wi–thin said opening in abutting relationship_with an edge nortion of said window in the closed position thereof, and common operatin.– means alternately operatively connectqble and altefnately non–op_–ratively connectable with said pillar structiire and said window for sequent:al operation and–non–operation thereof.

0) US2828999A – WINDOW ARRANGEMENT FOR VEHICLE BODIES

22) Family number: 21763955 (US2828999A) © PatBase

Title: WINDOW ARRANGEMENT FOR VEHICLE BODIES

Priority: US19560557743 19560106

Family:

Publication number	Publication date	Application number	Application date
US2828999 A	19580401	US19560557743	19560106

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** SCHAMEL CLYDE H ; SEMAR CLAUD S

International class (IPC 8–9)**:** E05F11/38 (Advanced/Invention); E05F11/38 (Core/Invention)

International class (IPC 1–7)**:** B60J1/17 E05F11/38 F16C11/04

CPC: E05F11/382 E05Y2900/55

European class: E05F11/38B P05Y900/550

US class: 296/149 49/136 49/143

Classification Explorer

Cited documents: US2317697 A, US2138838 A, US2131745 A, US2032690 A, US1914066 A, US1826865 A,

Forward Citations: US3086810, US3024062,

Abstract:
Source: US2828999A (Claim 1) What is claimed is: 1. In combination with a vehicle body having Q window opening therein and a window Well below said opening having an entrance thereto, a Strat window mounted on said body for movement to open and closed positions with respect to a portion of said window opening and adapted to close a portion of the entrance of said well in the closed position thereof, a second window supported on saidbody for movement into and out of said well to open and closed positions with respect to an adjacent portion of said win~ dow opening, said second window having an open position Within said Well and a closed position within said opening out of registry with thc entrance of said wel] to allow movement of said first Window to closed position, operadug means for moving each of said windows to open and closed positions, and means controlled by said windows , y ,_ z,s2s,999 ` ` ll 12 in predeterminedpositions thereof for coordinating actuation of said operating means.

0) US2997334A – VEHICLE BODY WINDOW GLASS FRAME STRUCTURE

23) Family number: 22235012 (US2997334A) © PatBase

Title: VEHICLE BODY WINDOW GLASS FRAME STRUCTURE

Priority: US19590823433 19590629

Family:

Publication number	Publication date	Application number	Application date
US2997334 A	19610822	US19590823433	19590629

Probable Assignee: FORD MOTOR CO

Assignee(s):(std)**:** FORD MOTOR CO

Assignee(s): FORD MOTOR COMPANY

Inventor(s):(std)**:** KRAMER CLARENCE F

International class (IPC 8–9)**:** B60J1/00 (Advanced/Invention); B60J1/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00

CPC: B60J1/007

European class: B60J1/00F4

US class: 49/211 49/34 49/40 49/440

Classification Explorer

Cited documents: US2912727 A, US2844405 A, US2798761 A, US2260997 A, US2120359 A, US1701969 A,

Forward Citations: US2012055841,

Abstract:
Source: US2997334A (Claim 1) 1. In combination, a curved window glass adapted to be raised or lowered relative to a window opening, said window glass having a predetermined curvature through 55 its vertical section and a sag through its horizontal section, said sag reaching a maximum approximately midway of the height of the glass, cushioning means encompassing a peripheral edge of said glass, and a frame structure comprising a substantially U–shaped channel 60 member having a base portion and vertically extending leg portions at each edge thereof, means on at least one of said leg portions effective to maintain the latter in spaced relationship to the adjacent edge of said glass, the outer width of said channel member across said leg por– 65 tions being such that the glass is retained in a position sufficiently inboard of the extreme outer point of sag on the curved surface thereof to permit lowering or raising movements of the glass through a body structure defining said window opening without interference at said extreme 70 outer point of sag, said frame structure in engagement with said body structure maintaining the lateral stability of said glass during said movements.

0) US3006681A – VEHICLE WINDOW STABILIZER

24) Family number: 22540581 (US3006681A) © PatBase

Title: VEHICLE WINDOW STABILIZER

Priority: US19570670901 19570710

Family:

Publication number	Publication date	Application number	Application date
US3006681 A	19611031	US19570670901	19570710

Probable Assignee: ANDERSON CO

Assignee(s):(std)**:** ANDERSON CO

Assignee(s): THE ANDERSON COMPANY

Inventor(s):(std)**:** WISE RALPH H

International class (IPC 8–9)**:** B60J1/17 (Advanced/Invention); B60J1/17 (Core/Invention)

International class (IPC 1–7)**:** B60J1/17

CPC: B60J1/17

European class: B60J1/17

US class: 49/227

Classification Explorer

Cited documents: US2811387 A, US2809827 A, US2775479 A, US2746747 A,

Forward Citations: US6425208, US2007176464,

Abstract:
Source: US3006681A (Claim 1) A movable window construction for an automobile or the like having a body, spaced guide tracks for carrying the window as it is raised and lowered, said tracks being fixedly mounted in the body, said window traversing a generally vertical path into and out of the body and having an endwise movement substantially in the plane of the glass during the raising and lowering thereof, support means cooperating with and extending longitudinally along the bottom of the window, track following means disposed at points spaced along the support means for cooperating with the support means and the tracks during the raising and lowering of the window, means for raising and lowering the window, and stabilizing means for coacting with the window to assist in holding it against displacement relative to the body when the window is projected an appreciable distance out of the body comprising a pair of substantially rigid downwardly extending members, said members being fixed relative to said window support means at spaced points, embracing elements rigidly mounted on the lower end portions of said members, each of said embracing elements being caused to embracingly engage said spaced guide tracks respectively by the motion of said window support means as the window is raised, whereby when the rigid downwardly projecting members and their associated embracing ele– ments engage the relatively fixed guide tracks, the up–vvardly extending window is stabilized.

0) US3034826A – CLOSURE SEALING ARRANGEMENT

25) Family number: 22644464 (US3034826A) © PatBase

Title: CLOSURE SEALING ARRANGEMENT

Priority: US19590823121 19590626

Family:

Publication number	Publication date	Application number	Application date
US3034826 A	19620515	US19590823121	19590626

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** GARVEY LOUIS P ; REUTHER MARTIN E

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** E05B65/30

CPC: B60J10/80

European class: B60J10/08

US class: 49/319 49/365 49/484.1

Classification Explorer

Cited documents: US2876506 A, US2765504 A, US2171070 A, US1681869 A, US1558954 A, GB406613 A, GB384630 A, DE484095 A,

Forward Citations: US6009669, DE3927542,

Abstract:
Source: US3034826A (Claim 1) 1. The combination comprising, a vehicle body, a pair of closures swingably mounted on said body for movement between open and closed positions, latch means operable to latch said closures to eacli other or to unlatch said closures from each other to allow either or both to be moved between open and closed positions, sealing means mounted on one of said closures for movement between extended and retracted positions with respect thereto, said sealing means being located out of engagement with said other closure in the retracted position thereof to allow either or both of said closures to be moved between open and closed positions and being sealingly engageable with said other closure in the extended position thereof, and means responsive to operation of said latch means for moving said sealing means between said extended and retracted positions thereof.

0) AT231836B – PERSONENKRAFTWAGEN MIT GESCHLOSSENEM AUFSATZ P...

26) Family number: 24903733 (AT231836B) © PatBase

Title: PERSONENKRAFTWAGEN MIT GESCHLOSSENEM AUFSATZ PASSENGER CARS WITH CLOSED TOP (Machine translation)

Priority: 19580701

Family:

Publication number	Publication date	Application number	Application date
AT231836 B	19640225	AT19590004784	19590630

Probable Assignee: DAIMLER BENZ AG

Assignee(s):(std)**:** DAIMLER BENZ AG

Assignee(s): DAIMLER BENZ AKTIENGESELLSCHAFT

Inventor(s):(std)**:** BARENYI BELA ING

Inventor(s): ING BELA BARENYI

International class (IPC 1–7)**:** B60J1/08 B62D25/06

Forward Citations: US3797881,

Abstract:
Source: AT231836B [Source: Claim 1] 1. Personenkraftwagen mit geschlossenem Aufsatz, dessen Dach im wesentlichen flach ist und durch mindestens vier Saeulen getragen ist, dadurch gekennzeichnet, dass entlang den Laengskanten des Daches (1) auf diesem ueber die Dachflaeche nach oben vorstehende Erhebungen (4) in Form von Rippen, Auswoelbungen, Flanschen od.dgl. angebracht sind. 20 [Source: claim 1] 1 passenger cars with closed top, its roofing is essentially flat and is worn by at least four columns, characterized that along the longitudinal edges of the roof (1) on this, over the roof surface to top protruding surveys (4) in the form of off vaults, ribs, flanges od.dgl. are attached. 20

0) DE1505588A1 – VORRICHTUNG ZUM ABLEITEN DES REGENWASSERS VON K...

27) Family number: 351744 (DE1505588A1) © PatBase

Title: VORRICHTUNG ZUM ABLEITEN DES REGENWASSERS VON KRAFTFAHRZEUGDAECHERN DEVICE FOR DIVERT THE RAIN WATER FROM KRAFTFAHRZEUGDAECHERN (Machine translation)

Priority: DE1966B087310 19660526

Family:

Publication number	Publication date	Application number	Application date
DE1505588 A1	19700709	DE19661505588	19660526

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Assignee(s): BAYERISCHE MOTORENWERKE AG

Inventor(s):(std)**:** HOFMEISTER WILLI

International class (IPC 8–9)**:** B60J1/20 B60J10/00 (Advanced/Invention); B60J1/20 B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60R13/06

CPC: B60J1/20 B60J10/32

European class: B60J1/20 B60J10/00G1

Classification Explorer

Forward Citations: US4518197, FR2525549, DE3600504, DE3214876, DE3132325, DE3124271, DE3023767, DE102010037018,

Abstract:
Source: DE1505588A1 (Claim 1) 1. Vorrichtung zum Ableiten des Regenwaasera von Kraftfahrzeug daechern, bestehend aus an den Laengeseiten des Daches ange–, ordneten Wasserablaufrinnen, die sich an den vorderen Dach pfosten, schraeg nach unten verlaufend, fortsetzeng wobei die Wasserablaufrinne von einer ueber ihre gesamte Laenge einen gleichbleibenden Querschnitt aufweisenden Profilleiste sowie Teilen des Daches bzw. des Dachpfostens gebildet ist und im Bereich der etwa horizontal verlaufenden Laengeseiten des Daches einen nach aussen offenen Querschnitt aufweistg dadurch gekennzeichnet, dass im Bereich der Dachpfosten der nach unten fuehrende Teil der Regenrinne einen nach aussen im wesentlichen geschlossenen, durch Teile der Profilleiste und des Dachpfostens gebildeten Querschnitt aufweist.

Machine translation: (Claim 1) 1 Device to derive the Regenwaasera of vehicle roofs made from in–to the Laengeseiten the roof positioned drain channels, the posts on the front roof is inclined downwards, fortsetzeng with the water drainage channel from one over its entire length a constant cross–section having profiled strip and parts of the roof or the roof pole is formed and in the range of approximately horizontal Laengeseiten of the roof, an outwardly open cross–section aufweistg wherein the area of the roof pillars of the world leading down part of the gutter an outwardly substantially closed by parts the profile of the roof bar and post formed cross–section.

0) US3728819A – VEHICLE DOORS

28) Family number: 1959546 (US3728819A) © PatBase

Title: VEHICLE DOORS

Priority: DE19700039710U 19701028 DE19700047061U 19701221 DE19702030799 19700623 DE19702030799 19700623 DE19702030799 19700623 DE19702020576 19700428 DE19722219176 19720420 FR19710014139 19710421 DE19702052764 19701028 DE19702054397 19701105 DE19702062822 19701221 DE19702064678 19701231 DE19702042936 19700829

Family:

Publication number	Publication date	Application number	Application date
AT314991 B	19740510	AT19710003614	19710427
BE766311 A1	19710916	BE19710766311	19710427
BR7102965 A0	19730419	BR19710002965	19710518
CH534065 A	19730228	CH19710005913	19710423
DE2020576 A1	19711125	DE19702020576	19700428
DE2020576 B2	19731004	DE19702020576	19700428
DE2020576 C3	19740425	DE19702020576	19700428
DE2030799 A1	19720504	DE19702030799	19700623
DE2030799 B2	19731129	DE19702030799	19700623
DE2030799 C3	19740718	DE19702030799	19700623
DE2042936 A1	19720302	DE19702042936	19700829
DE2052764 A1	19720504	DE19702052764	19701028
DE2052764 B2	19731129	DE19702052764	19701028
DE2052764 C3	19740822	DE19702052764	19701028
DE2054397 A1	19720510	DE19702054397	19701105
DE2062822 A1	19720803	DE19702062822	19701221
DE2062822 B2	19750507	DE19702062822	19701221
DE2062822 C3	19800410	DE19702062822	19701221
DE2064678 A1	19720727	DE19702064678	19701231
DE2064678 B2	19750626	DE19702064678	19701231
DE2219176 A1	19731031	DE19722219176	19720420
DE2219176 B2	19740404	DE19722219176	19720420
DE2219176 C3	19741121	DE19722219176	19720420
DE7015828 U	19701008	DE19700015828U	19700428
DE7032326 U	19710211	DE19700032326U	19700829
DE7039710 U	19710715	DE19700039710U	19701028
DE7047061 U	19710902	DE19700447061U	19701221
ES390306 A1	19750501	ES19710390306	19710417
FR2094969 A5	19720204	FR19710014139	19710421
GB1353483 A	19740515	GB19710011188	19710423
US3728819 A	19730424	US19710138032	19710428
ZA7102726 A	19720531	ZA19710002726	19710427

Probable Assignee: KIEKERT GMBH AND CO

Assignee(s):(std)**:** ARN KIEKERT SOHNE ; KIEKERT SOEHNE ARN ; KIEKERT A SOEHNE DT

Assignee(s): KIEKERT GMBH AND CO ; KIEKERT GMBH ; KIEKERT ARN SOHNE ; ARN KIEKERT AND SOHNE DT ; ARN KIEKERT SOEHNE ; ARN KIEKERT SOEHNE 5628 HEILIGENHAUS ; ARN KIEKERT SOHNE KETTWIGER STRASSE 16 20 HEILIGEN ; ARN KIEKERT SOHNE KETTWIGER STRASSE 16 20 HEILIGENHAUS ALLEMAGNE ; KIEKERT A SOEHNE

Inventor(s):(std)**:**

RUDOLF BRANDENBURG ; HORST GOLDBACH ; GOLDBACH HORST ; GOLDBACH H ; ERICH DABRINGHAUSEN ; DABRINGHAUSEN ERICH ; DABRINGHAUSEN E ; BRANDENBURG RUDOLF ; BRANDENBURG R

Inventor(s): BRANDENBURG R DT ; DABRINGHAUSEN E DT ; GOLDBACH H DT

International class (IPC 8–9): B60J5/06 B61D19/00 E05D15/10 E05F15/06 E05F15/14 (Advanced/Invention); B60J5/06 (Advanced/Non–invention); B60J5/06 B61D19/00 E05D15/10 E05F15/00 E05F15/14 (Core/Invention); B60J5/06 (Core/Non–invention); B60J (Subclass/Invention); B60J (Subclass/Non–invention)

International class (IPC 1–7): B60J5/00 B60J5/06 E05D15/10

CPC: E05Y2201/11 E05Y2201/684 E05Y2800/122 E05D15/1068 E05D15/1044 E05D2015/1055 E05D2015/1076 E05D2015/1086 E05D2015/1097 E05Y2900/51 E05Y2800/12 E05Y2800/27 B60J5/06 B61D19/008 E05D2015/1092 E05Y2201/22 B60J5/062 E05D15/1047 E05D15/1081 E05D2015/1031 E05Y2900/506 E05F15/565 E05F15/646 E05Y2600/46 E05Y2600/62

European class: B60J5/06 B60J5/06B B61D19/00C4 E05D15/10S1 E05D15/10S2 E05D15/10T1 E05D15/10T3 E05F15/06B E05F15/14F2 P05D15/10R2 P05D15/10S5 P05D15/10T2B P05D15/10T4A P05D15/10T4A2 P05D15/10T6 P05Y201/22 P05Y900/506 P05Y900/510

US class: 49/21.6 49/216 49/218 49/223 49/225

Classification Explorer

Cited documents: GB738486 A, FR698436 A, DE847916 A,

Forward Citations: WO9951129, WO9801644, WO9729264, WO9101427, WO15165677, WO15044357, WO14096465, WO14009626, WO07104902, WO04041567, WO0105612, US9752366, US9266540, US8070102, US8015727, US7918492, US6779832, US6328374, US5913562, US5711185, US5212849, US5210906, US5195272, US5173992, US5144720, US4561690, US4559740, US4541201, US4495729, US4492405, US4406420, US4337596, US4028850, US3994094, US3903661, US2010171336, US2010059628, US2005102854, JP53077517, ITFI20120150, GB2517887, FR2993210, FR2865758, FR2795446, FR2763033, FR2664882, FR2647721, FR2485077, FR2443942, FR2374495, FR2310236, FR2310236, FR2253386, FR2253386, ES2390717, ES2166667, ES2128944, ES2127098, ES2127097, ES2123388, EP3088646, EP3073037, EP1914372, EP1085154, EP0940278, EP0940278, EP0876946, EP0876945, EP0589096, EP0401081, EP0134971, EP0134971, EP0063281, DE4331078, DE4323424, DE4218006, DE3710451, DE3630229, DE3526761, DE3249390, DE3224395, DE3101000, DE3049189, DE2937662, DE2631853, DE2602610, DE202006015735, DE102013113483, DE102012006531, DE102009018430, DE102004033759, DE102004011903, DE10158094, CN104487271, AT514501, AT514501, AT392239, AT391160,

Abstract:
Source: US3728819A A swinging, sliding door for vehicles, said door comprising at least one door panel, a guide track mounted on the panel, at least one roller guided in the track and a telescopic guide having at least two sections, one of the sections being mounted on the door panel and another of the sections being adapted to be mounted on the body of a vehicle by means of guide members. The telescopic guide extends essentially parallel to the upper edge of the door panel and the sections of the telescopic guide are arranged to move substantially parallel to each other on movement of the door.

0) DE2121048A1 –

29) Family number: 563554 (DE2121048A1) © PatBase

Priority: DE19712121048 19710429

Family:

Publication number	Publication date	Application number	Application date
DE2121048 A1	19721102	DE19712121048	19710429

International class (IPC 8–9): B60J1/20 B60J10/00 B60J10/02 B60J10/08 B60R13/07 B62D25/04 (Advanced/Invention); B60J1/20 B60J10/00 B60J10/02 B60R13/00 B62D25/04 (Core/Invention)

International class (IPC 1–7): B62D25/02

CPC: B60R13/07 B60J1/20 B60J10/25 B60J10/70 B60J10/86 B62D25/04

European class: B60J1/20 B60J10/00D6 B60J10/02 B60J10/08C B60R13/07 B62D25/04

Classification Explorer

Forward Citations: WO10130486, FR2500388, DE3048889, DE2834012,

Abstract:
Source: DE2121048A1 (Claim 1) 1.Windschutzscheibensaeule fuer Fahrzeuge, insbesondere Kraft– fahrzeuge, mit einer in ihrem in Fahrtrichtung hinteren Aussen bereich verlaufenden, durch eine Regenleiste begrenzten Re genrinne, dadurch gekennzeichnet, dass die Regenrinne (6) zumindest teilweise in die Saeule (1) eingezogen ist und die Regenleiste (8) eine zwischen Parallelitaet zur Fahr zeuglaengsachse und Parallelitaet zu dem Profil (9) der nichteingezogenen Saeule (1) liegende Neigung bezueglich der Fahrzeuglaengsachse besitzt.

Machine translation: (Claim 1) 1.Windschutzscheibensaeule for vehicles, particularly motor vehicles, with one in her rear in the direction of travel outside area running through a wet bar, limited re genrinne, wherein the rain gutter (6), at least partially into the safari (1) is retracted and the rain bar (8) a zeuglaengsachse between parallelism and parallelism to drive to the profile (9) of unrecovered column (1) lying tendency has in respect of Fahrzeuglaengsachse.

0) GB1348298A – FLANGE EDGE PROTECTOR CONSTRUCTION FOR VEHICLE ...

30) Family number: 1719210 (GB1348298A) © PatBase

Title: FLANGE EDGE PROTECTOR CONSTRUCTION FOR VEHICLE DOOR OPENINGS

Priority: GB19710054132 19711122

Family:

Publication number	Publication date	Application number	Application date
DE2257257 A1	19730530	DE19722257257	19721122
GB1348298 A	19740313	GB19710054132	19711122
JP48063427 A2	19730904	JP19720117607	19721122

Probable Assignee: SCHLEGEL UK LTD

Assignee(s):(std)**:** SCHLEGEL UK LTD

Assignee(s): SCHLEGEL U K LTD LEEDS GROSSBRITANNIEN

Inventor(s):(std)**:** GARNETT JOHN FREDERICK CLAYTON ; WEAVER JOHN LOCKERBIE ; WEBSTER RONALD GEOFFREY ; WORMALD NIGEL

Inventor(s): GARNETT JOHN FREDERICK CLAYTON OTLEY YORKSHIRE

International class (IPC 8–9): B60J10/00 B60R13/06 F16B5/06 F16B5/12 (Advanced/Invention); B60J10/00 B60R13/06 F16B5/06 F16B5/12 (Core/Invention)

International class (IPC 1–7): B60R13/04 B60R13/06 E06B7/22 E06B7/23

CPC: B60J10/16 B60J10/235 B60J10/32 B60J10/33 F16B5/121 F16B5/0635

European class: B60J10/00C2 B60J10/00D3 B60J10/00G1 B60J10/00G1B F16B5/06B3B F16B5/12B

Classification Explorer

Forward Citations: US6260906, JP64022651, JP63015249, JP1022651, GB2273952, GB2273952, EP1930215, DE2623316,

Abstract:
Source: GB1348298A 1348298 Sealing strips SCHLEGEL (UK) Ltd 22 Nov 1971 54132/71 Heading E1J A flange edge protector comprises a U– shaped portion 13 from which extends a plate portion 15 with a flanged edge. The flange is on a vehicle body and the plate forms a doorsill or head liner. The plate and U–shaped portion are integrally extruded or moulded of plastics, fins 19 being of softer material, and door seal 21 is secured by heat sealing. Alternatively the plate and U–shaped portion are formed separately and heat–sealed together (Fig. 3, not shown).

0) US3866524A – VEHICLE WINDOW VENTILATOR

31) Family number: 1124127 (US3866524A) © PatBase

Title: VEHICLE WINDOW VENTILATOR

Priority: US19730359455 19730511

Family:

Publication number	Publication date	Application number	Application date
US3866524 A	19750218	US19730359455	19730511

Probable Assignee: FORBES JR HAMPTON E

Assignee(s):(std)**:** FORBES JR HAMPTON E

Inventor(s):(std)**:** FORBES JR HAMPTON E

International class (IPC 8–9)**:** B60H1/26 B60J1/20 (Advanced/Invention); B60H1/24 B60J1/20 (Core/Invention)

International class (IPC 1–7)**:** B60H1/24 B60H1/26 B60J1/16

CPC: B60H1/267 B60J1/20

European class: B60H1/26C B60J1/20

US class: 454/131

Classification Explorer

Cited documents: US2034528 A,

Forward Citations: USD556657, USD554571, USD549626, USD544821, US9630481, US9279325, US8147300, US7172240, US5797645, US5525105, US4923241, US4756242, US2008113601, EP0170238, EP0170238,

Abstract:
Source: US3866524A A vehicle window ventilating device adapted for present day style windows comprises a slotted flange extension for the window opening of a vehicle. In one form, the slotted flange extension comprises a simple extension of the conventional flange presently provided around vehicle window apertures, and against which the window seats, for controlling the engress and egress of air and water through the window opening, and in another embodiment, the slotted flange extension comprises an accessory element having at least two angularly related sections. In the latter case, one section of the slotted flange extension element is attached to the vehicle window opening along both the rearwardly inclined front portion and the upper portion thereof, and the second section of the flanged extension element extends into the window opening aperture to reduce the apparent size thereof. However, both the second section of the flanged extension element and the simple extension of the conventional window flange each include a slotted part which slotted part is located along the inclined front portion of said window opening, thereby providing a ventilating slot along the inclined front portion of said window opening when the window member is partially lowered within the window opening.

0) US4018474A – VEHICLE BODY CONSTRUCTION WITH SLIMLY SHAPED FR...

32) Family number: 1386730 (US4018474A) © PatBase

Title: VEHICLE BODY CONSTRUCTION WITH SLIMLY SHAPED FRONT PILLAR

Priority: JP19740098411 19740829

Family:

Publication number	Publication date	Application number	Application date
JP51027225 A2	19760306	JP19740098411	19740829
JP52032494 B4	19770822	JP19740098411	19740829
JP900786 C3	19780315	JP19740098411	19740829
US4018474 A	19770419	US19750606213	19750820

Probable Assignee: NISSAN MOTOR

Assignee(s):(std)**:** NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD

Inventor(s):(std)**:** AYA AKIMOTO ; AYA NORIMOTO ; KAJIO YOSHIHIRO

International class (IPC 8–9)**:** B60J10/02 B60J10/06 B62D25/04 B62D25/06 (Advanced/Invention); B60J10/02 B62D25/04 B62D25/06 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00 B62D25/04 B62D25/06

CPC: B60J10/70 B60J10/79 B62D25/04

European class: B60J10/02 B60J10/06 B62D25/04

US class: 296/200 296/28R 296/96.12 296/96.21

Classification Explorer

Cited documents: US2456175 A, US2061788 A,

Forward Citations: US9610981, US4292774, JP54036107,

Abstract:
Source: US4018474A The front pillar consists of three sheet–formed members, each of which is bent lengthwise to form a central crease, assembled back to back and in close contact with each other so that the three ridges of the respective creases form one line and the cross–section of the pillar is Y–shaped. The front pillar is arranged such that the front windshield and a window glass panel are mounted on the pillar partitioned by one leg of the letter Y, while the remaining side of the pillar is exposed to the interior of the body.

0) US3961821A – VEHICLE BODY HAVING A WINDOW OPENING

33) Family number: 1291361 (US3961821A) © PatBase

Title: VEHICLE BODY HAVING A WINDOW OPENING

Priority: US19750589641 19750623

Family:

Publication number	Publication date	Application number	Application date
CA1054651 A1	19790515	CA19760253160	19760521
DE2626015 A1	19770120	DE19762626015	19760610
GB1495900 A	19771221	GB19760020362	19760517
US3961821 A	19760608	US19750589641	19750623

Probable Assignee: FORD MOTOR CO

Assignee(s):(std): FORD MOTOR CANADA ; FORD MOTOR CO ; FORD WERKE AG

Assignee(s): MISTOPOULOS CHRIS ; FORD MOTOR CO LTD ; FORD MOTOR CO OF CANADA ; FORD MOTOR CO OF CANADA LTD ; FORD MOTOR COMPANY

Inventor(s):(std): MISTOPOULOS C ; MISTOPOULOS JR CHRIS ; MISTOPOULOS JUN CHRIS

Inventor(s): MISTOPOULOS CHRIS ; JUN

International class (IPC 8–9): B60J1/00 B60J1/10 B60J10/02 (Advanced/Invention) ; B60J1/08 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J1/00 B60J1/10 E06B3/54

CPC: B60J10/777 B60J1/10

European class: B60J1/10 B60J10/04E4

US class: 248/208 296/146 296/146.15

Classification Explorer

Cited documents: US3776591 A, US2772915 A, US2067939 A,

Forward Citations: US8490345, US4148532, US2014028050, US2003051421,

Abstract:
Source: US3961821A A vehicle body having a window opening, a window well subjacent the opening, and a vertical inner body panel forming a wall of the window well. A window panel supported on a bracket is provided for the window opening.

0) US4036522A – VEHICLE BODY ROOF CONSTRUCTION

34) Family number: 1419109 (US4036522A) © PatBase

Title: Vehicle body roof construction

Priority: US19760673174 19760402

Family:

Publication number	Publication date	Application number	Application date
US4036522 A	19770719	US19760673174	19760402

Probable Assignee: AMERICAN MOTORS CORP

Assignee(s):(std)**:** AMERICAN MOTORS CORP

Inventor(s):(std)**:** DEREES DELBERT D ; PINSONNEAULT JACQUES EMILE

International class (IPC 8–9)**:** B60J5/10 B62D25/06 (Advanced/Invention); B60J5/10 B62D25/06 (Core/Invention)

International class (IPC 1–7)**:** B60J9/00

CPC: B60J5/101 B60J5/107 B62D25/06

European class: B60J5/10 B60J5/10C B60J5/10C5 B62D25/06

US class: 296/154 296/210

Classification Explorer

Cited documents: US3938856 A, US3833254 A, US3794376 A, US3711147 A, US3596980 A, US3526426 A, US3326599 A, US2926402 A,

Forward Citations: US8668255, US7243985, US7021704, US6523983, US6290285, US6224125, US6027160, US4695090, US4653802, US4541664, US4508382, US4444428, US4410211, US4396223, US4231608, US2013175828, US2006066135, US2005146163, FR2519926, DE3837972, DE3809196,

Abstract:
Source: US4036522A A vehicle body roof construction of the disclosure includes an improved edge structure adjacent closure members thereof such as a side door or rear tailgate and also includes an improved pillar structure for supporting a roof panel whose edge portions are stamped to define integrally connected flanges that constitute components of the improved roof edge structure. At the side and rear edge portions of the roof panel, roof inner members have extreme outer edges secured to extreme outer edges of the roof panel so as to cooperate therewith in providing a side roof rail and a tailgate header that define the upper extremities of side door and tailgate openings, respectively. An associated side door and a tailgate are mounted for movement between open and closed positions and include upper window frames that overlie the adjacent roof panel edge portion in their closed position. Pillars support the side edge portion of the roof panel at its juncture with the rear and front edge portions of the roof panel. Each pillar includes inner and outer members that define an enclosed chamber and include first and second portions that project along the adjacent front or rear edge portion and the side edge portion, respectively. The pillar outer member includes depressions in its projecting portions at a spaced location from the juncture of the roof panel edge portions.

0) GB2029339A – VEHICLE ROOF PANELS

35) Family number: 1742050 (GB2029339A) © PatBase

Title: Vehicle Roof Panels

Priority: US19780938444 19780831

Family:

Publication number	Publication date	Application number	Application date
DE2935665 A1	19800313	DE19792935665	19790831
ES483730 A1	19800301	ES19790483730	19790830
GB2029339 A1	19800319	GB19790029994	19790830
IT1122878 A	19860430	IT19790025336	19790829
IT7925336 A0	19790829	IT19790025336	19790829
JP55036184 A2	19800313	JP19790101159	19790808

Probable Assignee: AMERICAN SUNROOF CORP

Assignee(s):(std)**:** AMERICAN SUNROOF CORP

Inventor(s):(std)**:** KALTZ MILTON C ; MIRUTON SHII KARUTSU

Inventor(s): C KALTZ MILTON

International class (IPC 8–9)**:** B60J7/00 B60J7/02 (Advanced/Invention); B60J7/00 B60J7/02 (Core/Invention)

International class (IPC 1–7)**:** B60J7/02 B60J7/04 B60J7/4 B61D39/00

CPC: B60J7/0007

European class: B60J7/00B

Classification Explorer

Forward Citations: US4476154,

Abstract:
Source: GB2029339A A trim 10 has an actuator assembly 26–32 interconnected with a lifter assembly 34 associated with a slidable roof of a vehicle. When the panel is in the closed position the actuator assembly urges the trim into contiguity with the interior roof line to define a substantially contiguous configuration with the roof line of the vehicle. When the panel is opened, the trim is moved into engagement with the panel to facilitate storage of the panel in its retracted position. The construction is particularly adapted for utilization with sliding roof hatch panels.

0) JP55164521A – CENTER SEAL FOR DOOR GLASS OF AUTOMOBILE

36) Family number: 7002733 (JP55164521A) © PatBase

Title: CENTER SEAL FOR DOOR GLASS OF AUTOMOBILE

Priority: JP19790070407 19790605

Family:

Publication number	Publication date	Application number	Application date
JP55164521 A2	19801222	JP19790070407	19790605

Probable Assignee: NISSAN MOTOR

Assignee(s):(std)**:** NISSAN MOTOR

Inventor(s):(std)**:** SASAKI ICHIROU

International class (IPC 8–9): B60J1/08 B60J10/04 (Advanced/Invention); B60J1/08 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J1/08

Classification Explorer

Cited documents: JP52020617 B4,

Forward Citations: JP56119720,

Abstract:
Source: JP55164521A PURPOSE:To provide a proper seal and to prevent a generation of leaked blow of air or wind during a high speed driving of the car by a method wherein a lower part of the center seal extending forwardly to the lower and front edge of the center seal is made to be wide in the center seal for use in sealing between the rear and front door glasses. CONSTITUTION:In the automobile having no center pillar, a center seal 2 is fixed to the front edge of the rear door glass 1 to have a sealing acion between the glasses when the rear door glass 1 and the front door glass 3 are raised up from within the doors 4 and 5. In this case, the center seal 2 is made to have a wider lower part when front edge thereof is forwardly extended at 2b. Thereby, when the front door glass 3 is raised, the rear edge of the front glass 3 is positively positioned at the lower extended part 2b of the center seal 2 outside of the car 0 and overlapped against the extended part to prevent a generation of the leaked air or wind during a high speed driving of the automobile.

0) US4544198A – AUTOMOTIVE VEHICLE WITH FRONT AND REAR SLIDING ...

37) Family number: 2154708 (US4544198A) © PatBase

Title: AUTOMOTIVE VEHICLE WITH FRONT AND REAR SLIDING DOORS

Priority: JP19820124191 19820716

Family:

Publication number	Publication date	Application number	Application date
DE3325297 A1	19840119	DE19833325297	19830713
GB2126173 A1	19840321	GB19830019140	19830715
GB2126173 B2	19860806	GB19830019140	19830715
GB8319140 A0	19830817	GB19830019140	19830715
JP59015179 A2	19840126	JP19820124191	19820716
US4544198 A	19851001	US19830513688	19830714

Probable Assignee: NISSAN MOTOR CO LTD

Assignee(s):(std): NISSAN MOTOR ; NISSAN SHATAI CO

Assignee(s): NISSAN MOTOR COMPANY LIMITED ; NITSUSAN SHIYATAI KK ; NISSAN JIDOSHA KK ; NISSAN MOTOR CO ; NISSAN MOTOR CO 2 TAKARA CHO KANGAWA KU YOKOHAMA S ; NISSAN MOTOR CO 2 TAKARA CHO KANGAWA KU YOKOHAMA SHI KANAGAWA KEN JAPAN LTD ; NISSAN MOTOR CO LTD

Inventor(s):(std): OCHIAI AKIRA ; SUZUKI YOSHITAKA

Inventor(s): YOSHITAKA SUZUKI ; AKIRA OCHIAI

International class (IPC 8–9): B60J10/00 B60J5/04 B60J5/06 E05D15/10 (Advanced/Invention); B60J10/00 B60J5/04 B60J5/06 E05D15/10 (Core/Invention)

International class (IPC 1–7): B60J5/04 B60J5/06 E05D15/06 E06B3/46

CPC: B60J10/40 B60J5/0479 B60J5/06 E05F5/003 E05Y2900/531

European class: B60J10/00J B60J5/04H5B B60J5/06 P05F5/00A P05Y900/531

US class: 296/155 49/370

Classification Explorer

Cited documents: US4152872 A, US4068407 A, US3501864 A, US2628860 A, JP57045420 A2, JP57041209 A2, GB505672 A, GB493234 A, GB370837 A, GB1316779 A, GB1227079 A, FR2493792 A1, DE6806861 U, DE2832270 B1,

Forward Citations: WO13154833, WO08025827, WO05007431, WO05007431, US9718497, US9566850, US9050878, US8740284, US8459592, US8104824, US7789022, US7726723, US7527321, US7311350, US7243978, US7104588, US6955389, US6902220, US6834909, US6779832, US6299241, US6286260, US5676417, US5618080, US5322339, US5042864, US4991905, US4984842, US4981321, US4976488, US4869544, US2015007504, US2013008088, US2010252682, US2010181797, US2009212592, US2008282614, US2007085374, US2007062118, US2005264031, US2005140145, US2005093331, US2004262945, US2004003484, FR2894884, FR2799788, EP1092574, EP0938992, EP0844123, EP0357543, EP0357542, EP0356373, EP0350228, DE4305598, DE3737533, DE102008020091,

Abstract:
Source: US4544198A An automotive vehicle has a single integral door opening on each side of the door body. The door opening is closed by a pair of front and rear doors which are slidable along the vehicle side to open and close the door opening. The rear edge of the front sliding door and the front edge of the rear sliding door directly oppose each other without a vehicle body pillar therebetween. The opposing edges of the sliding doors have seals for water–proofing. Also, the upper edges of the sliding doors sealingly contact seals mounted on vehicle side frames extending along upper edge of the door opening for water–proofing. Guide rails slidingly supporting the sliding doors are mounted on the side frames in such a manner that they serve to reinforce the side frames. Lower seals are provided between the lower edges of the front and rear doors and the lower side frames for establishing water–tight seal therebetween.

38) Family number: 4623547 (US4492405A) © PatBase

Title: SEALING STRUCTURE FOR AUTOMOTIVE VEHICLE SIDE DOORS

Priority: JP19820124192 19820716

Family:

Publication number	Publication date	Application number	Application date
DE3380987 D1	19900125	DE19833380987	19830712
EP0099116 A2	19840125	EP19830106836	19830712
EP0099116 A3	19861008	EP19830106836	19830712
EP0099116 B1	19891220	EP19830106836	19830712
JP1498571 C3	19890529	JP19820124192	19820716
JP59014519 A2	19840125	JP19820124192	19820716
JP63047647 B4	19880922	JP19820124192	19820716
US4492405 A	19850108	US19830513401	19830714

Probable Assignee: NISSAN MOTOR CO LTD

Assignee(s):(std): NISSAN SHATAI CO LTD ; NISSAN SHATAI CO ; NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN JIDOSHA KK ; NISSAN MOTOR COMPANY LIMITED ; NISSAN SHATAI COMPANY LIMITED ; NITSUSAN JIDOSHA KK ; NISSAN SHATAI CO LTD HIRATSUKA KANAGAWA JP ; NISSAN MOTOR CO LTD YOKOHAMA KANAGAWA JP ; NITSUSAN SHIYATAI KK ; NITSUSAN SHATAI KK

Inventor(s):(std): CHIKARAISHI TAKAYO ; KAWAMO KAZUNORI ; TUCHIYA YOSIMASA ; TSUCHIYA YOSHIMASA ; KAWAOMO KAZUNORI

Inventor(s): KAWAMO KAZUNORI ATSUGI SHI KANAGAWA KEN JP ; CHIKARAISHI TAKAYO KAWASAKI SHI KANAGAWA KEN JP ; TSUCHA YOSHIMASA ; TUCHIYA YOSIMASA EBINA SHI KANAGAWA KEN JP

Designated states: DE FR GB

International class (IPC 8–9): B60J10/00 B60J10/08 B60J5/06 B60R13/07 E06B7/23 (Advanced/Invention); B60J10/00 B60J5/06 B60R13/00 E06B7/22 (Core/Invention)

International class (IPC 1–7): B60J5/04 B60J5/06 B60R13/06 B60R13/07 E06B7/22

CPC: B60J10/24 B60J10/248 B60J10/25 B60J10/30 B60J10/40 B60J10/85 B60J10/86 B60R13/07 B60J5/06

European class: B60J10/00D5 B60J10/00D5E B60J10/00D6 B60J10/00G B60J10/00J B60J10/08B2 B60J10/08C B60J5/06 B60R13/07

US class: 296/146 296/146.9 296/154 296/213 49/483 49/483.1

Classification Explorer

Cited documents: US4378130 A, US3728819 A, US3432966 A, JP57045420 U1, JP57045420 A2, JP57045419 A2, JP57041209 A2, GB1091332 A, EP0103734 A1,

Forward Citations: WO15072558, WO12057842, USD488243, USD474845, USD460563, US9649922, US9617112, US8342601, US8328268, US7823963, US7168755, US6751908, US6601345, US4979333, US4678227, US4582358, US2017182871, US2016082815, US2012139298, US2012091749, US2011186577, US2007252410, US2006186608, US2005253413, US2003005644, KR101242266, KR100946447, JP61124416, JP6055930, JP5028723, JP4050546, JP2015072558, JP2009269526, JP2008285067, JP2006248426, JP2006248424, FR2794490, EP3072722, EP1346864, EP1057673, CN105916715,

Abstract:
Source: US4492405A A sealing structure for an automotive vehicle is adapted to establish a water–proof seal for a type of vehicle which has no pillar between adjacent front and rear doors. The seal between the adjacent doors serves as a downspout for a vehicle roof gutter for draining any water which might leak from the gutter.

39) Family number: 4931352 (US4561690A) © PatBase

Title: BODY STRUCTURE OF AUTOMOTIVE VEHICLE HAVING FRONT SWINGING DOOR AND REAR SLIDING DOOR AND HAVING NO PILLAR BETWEEN FRONT AND REAR DOORS

Priority: JP19820145857 19820823

Family:

Publication number	Publication date	Application number	Application date
DE3369288 D1	19870226	DE19833369288	19830810
EP0103734 A1	19840328	EP19830107913	19830810
EP0103734 B1	19870121	EP19830107913	19830810
JP59034922 A2	19840225	JP19820145857	19820823
US4561690 A	19851231	US19830524581	19830819

Probable Assignee: NISSAN MOTOR CO

Assignee(s):(std)**:** NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN MOTOR COMPANY LIMITED ; NISSAN JIDOSHA KK

Inventor(s):(std)**:** CHIKARAISHI TAKAYO ; NAKAMURA YOSHIHARU ; NAKAMURA ZENJI ; SHINJIYOU TSUNEO ; SHINJO TUNEO

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/04 B60J5/06 B62D25/02 B62D25/04 B62D25/20 (Advanced/Invention); B60J5/04 B60J5/06 B62D25/00 B62D25/04 B62D25/20 (Core/Invention)

International class (IPC 1–7)**:** B60J5/04 B60J5/06 B62D25/02 B62D25/04 B62D25/20

CPC: B60J5/0409 B60J5/0479 B60J5/06 Y10T292/0839 Y10T292/0853 Y10T292/564

European class: B60J5/04B7 B60J5/04H5B B60J5/06 B62D25/02

US class: 292/336 292/36 292/48 296/155 49/217

Classification Explorer

Cited documents: US4413444 A, US4157846 A, US4152872 A, US4110934 A, US4014587 A, US3728819 A, US3697124 A, US3171669 A, US3137518 A, US3011209 A, JP57045420 A2, JP57045419 A2, JP57041209 A2, JP56105079 A2, EP0100455 A1, EP0045139 A1, DE3127998 A1, DE2854204 A1, DE1078454 A,

Forward Citations: WO17162994, US9340234, US8496275, US7520557, US7104588, US7017979, US6955389, US6899374, US6840567, US6827387, US6616214, US6447054, US6382705, US6328374, US6234565, US6213535, US6196618, US6059352, US5782523, US5605363, US5398988, US5117665, US4917412, US4896906, US2015360547, US2009235767, US2006055184, US2006000145, US2005140145, US2005052045, US2004262945, US2004207227, US2004094991, GB2325653, GB2325653, GB2139273, FR3049260, FR2849094, EP2803560, EP2803560, EP0540053, EP0342915, EP0342915, EP0099116, CN104039633, CN104039633, CN103660874,

Abstract:
Source: US4561690A A vehicle body structure which can provide a wider passenger compartment than conventional sedan–type vehicles. The vehicle has a substantially flat floor which provides extra space and a single integral door opening on each side. The door opening is closed by a front swinging door and a rear sliding door. The rear sliding door support mechanism is adapted to allow the floor to be positioned lower than in conventional van–type vehicles. The front swinging door has upper and lower door lock mechanisms for locking the front door when closed. The rear sliding door support mechanism includes upper and lower guide rails which are respectively adapted to reinforce a roof side rail and a side sill comprising part of a vehicle framework to provide sufficient resistance to bending stresses applied to the framework, thus allowing a center–pillarless body structure.

0) US4496186A – SEALING STRUCTURE FOR AN AUTOMOTIVE VEHICLE

40) Family number: 4646831 (US4496186A) © PatBase

Title: SEALING STRUCTURE FOR AN AUTOMOTIVE VEHICLE

Priority: JP19820145354 19820821

Family:

Publication number	Publication date	Application number	Application date
DE3382246 D1	19910516	DE19833382246	19830810
EP0102556 A2	19840314	EP19830107912	19830810
EP0102556 A3	19870513	EP19830107912	19830810
EP0102556 B1	19910410	EP19830107912	19830810
JP59034954 A2	19840225	JP19820145354	19820821
US4496186 A	19850129	US19830524349	19830818

Probable Assignee: NISSAN MOTOR CO

Assignee(s):(std)**:** NISSAN MOTOR ; NISSAN SHATAI CO

Assignee(s): NISSAN SHATAI CO COMPANY LTD ; NISSAN MOTOR COMPANY LIMITED ; NISSAN SHATAI COMPANY LIMITED ; NITSUSAN SHIYATAI KK ; NISSAN SHATAI CO LTD ; NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN MOTOR CO LTD YOKOHAMA KANAGAWA JP ; NISSAN JIDOSHA KK

Inventor(s):(std)**:** KAWAMO KAZUNORI ; KAWAOMO KAZUNORI ; TSUCHIYA YOSHIMASA ; TUCHIYA YOSHIMASA ; CHIKARAISHI TAKAYO

Inventor(s): TUCHIYA YOSHIMASA EBINA SHI KANAGAWA KEN JP ; KAWAMO KAZUNORI ATSUGI SHI JP ; CHIKARAISHI TAKAYO KAWASAKI SHI KANAGAWA KEN JP

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J10/00 B60J10/08 B60R13/06 B62D25/04 E06B7/23 (Advanced/Invention); B60J10/00 B60R13/06 B62D25/04 E06B7/22 (Core/Invention)

International class (IPC 1–7)**:** B60J5/02 B60J5/04 B60R13/06 B62D25/04 E06B7/22

CPC: B60J10/85 B60J10/24 B60J10/32

European class: B60J10/00D5 B60J10/00G1 B60J10/08B2

US class: 296/146 296/146.9 296/93 49/383 49/490.1 49/491 49/495.1 49/498.1

Classification Explorer

Cited documents: US4433867 A, US4348443 A, US4304435 A, US4026598 A, US3666316 A, US3665646 A, JP59004353 B4, JP57030640 A2, JP57030640, JP56073616 B4, JP55002737 B4, FR2520467 A1, FR2479114 A1, FR2227166 A1, FR1572985 A, DE2818225 A1, DE2551240 A1,

Forward Citations: WO07051937, USD488243, USD474845, USD460563, US9745798, US9617112, US8950797, US7578098, US7434870, US6968649, US6393766, US5797644, US5775768, US5127193, US5123693, US5056850, US5029931, US5020277, US4976068, US4907838, US4888919, US4787668, US4729593, US4678227, US4653801, US4614061, US4549761, US2013187404, US2012304543, US2008007083, US2006042170, US2003005644, JP63110142, JP60175755, JP5041985, GB2359320, GB2359320, GB2359320, GB2296522, GB2296522, GB2170848, FR2903370, FR2892695, FR2694523, FR2616190, FR2595782, EP0582499, EP0270942, EP0172144, DE3805931, DE3706039, DE3545832, AU611986,

Abstract:
Source: US4496186A A sealing structure for an automotive vehicle prevents turbulent air flow around a front pillar and thus reduces noise due to wind. This seal is provided by a weatherstrip which also seals the space between the front pillar and a front door against water. The weatherstrip is provided with an extension extending towards the opening of the above space to close same. The extension lies approximately flush with the outer surfaces of the front pillar and the front door to form a substantially continuous external surface. This continuous external surface around the front pillar improves the aerodynamics of the vehicle.

0) US4631865A – CONSTRUCTION OF DOOR IN MOTOR VEHICLE

41) Family number: 5175887 (US4631865A) © PatBase

Title: CONSTRUCTION OF DOOR IN MOTOR VEHICLE

Priority: JP19820198034 19821111 JP19830004821 19830114

Family:

Publication number	Publication date	Application number	Application date
DE3380485 D1	19891005	DE19833380485	19831110
EP0109058 A2	19840523	EP19830111239	19831110
EP0109058 A3	19860806	EP19830111239	19831110
EP0109058 B1	19890830	EP19830111239	19831110
JP59089221 A2	19840523	JP19820198034	19821111
JP59130727 A2	19840727	JP19830004821	19830114
US4631865 A	19861230	US19830550045	19831109

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** HIRAMASTU EIJI ; SHIRAISHI DAIICHI ; MOTONAMI MASANAO ; HIRAMATSU EIJI

Designated states: DE FR GB

International class(IPC 8–9)**:** B60J1/17 B60J10/06 B60J10/08 B60J10/79 B60J5/04 E06B7/23 (Advanced/Invention); B60J1/17 B60J10/00 B60J10/02 B60J5/04 E06B7/22 (Core/Invention)

International class(IPC 1–7)**:** B60J1/17 B60J5/04 E05F11/38 E06B3/70 E06B7/22

CPC: B60J10/79

European class: B60J10/06

US class: 49/374 49/440

Classification Explorer

Cited documents: US4494337 A, US4490942 A, US4483100 A, US4240227 A, US2024773 A, JP56158321 A2, GB983052 A, GB2078839 A1, EP0040588 A1,

Forward Citations: US8650802, US6880293, US6143397, US5398452, US5217786, US5048232, US4903436, US4845894, US4827671, US4800638, US2012025564, US2006037249, US2006021282, US2004194390, JP61188223, JP60192923, EP0146186,

Abstract:
Source: US4631865A A window assembly for a motor vehicle door wherein the outer surface of the window and the outer surface of the door frame are substantially flush with each other. The assembly includes a window pane with at least one bracket secured to the outer surface of an end of the pane and projecting outwardly from that end in a direction substantially parallel to the surface of the glass. The assembly also includes a door frame having a vertically positioned guide portion with a guide groove open in the direction of the window pane. A slide piece is secured to the end of the bracket opposite the end secured to the pane and is slidably engaged within the guide groove so that the outer surface of the guide portion is substantially flush with the window pane and the window pane is guided in the vertical direction. Finally, there is a weather strip between the window pane and the door frame which is positioned at the vehicle compartment side of the guide portion.

0) EP0139537A2 – A CONTAINER WITH SLIDABLE DOORS. CONTAINER MIT...

42) Family number: 2121765 (EP0139537A2) © PatBase

Title: A CONTAINER WITH SLIDABLE DOORS.

Priority: GB19830028068 19831020

Family:

Publication number	Publication date	Application number	Application date
AU198434544 A1	19850426	AU19840034544	19841022
EP0139537 A2	19850502	EP19840307267	19841022
EP0139537 A3	19861217	EP19840307267	19841022
GB8328068 A0	19831123	GB19830028068	19831020

Probable Assignee: LAWRENCE DAVID LTD

Assignee(s):(std)**:** LAWRENCE DAVID LTD

Inventor(s):(std)**:** MARSHALL LAWRENCE

Inventor(s): LAWRENCE MARSHALL

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: AT BE CH DE FR GB IT LI NL SE

International class (IPC 8–9)**:** B65D88/12 B65D90/00 (Advanced/Invention); B65D88/00 B65D90/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/06 B65D88/12 B65D90/00 B65D90/62

CPC: B65D88/121 B65D88/127 B65D90/008

European class: B65D88/12A B65D88/12C B65D90/00F

Classification Explorer

Cited documents: FR2311707 A1, FR2023497 A1, FR1595713 A, DE2019632 A1,

Forward Citations: WO9310023, WO0125118, US6988781, FR2785883, EP0893366, EP0893366, EP0541832, CN103538826,

Abstract:
Source: EP0139537A2 A transportable freight container having an elongate body (1) having a cant rail (3) and side rave (5) extending along each side of the container. The cant rail and side rave each have tracks (15,18,34,46) between which side doors (6,7) of the container are suspended. The track is straight over substantially the whole length of the container and in a closed position the doors lie flush with each other. In an open position, allowing loading of the container one of the end doors (6) is arranged to overlie another one of the doors (7). This end door (6) is movable past the other doors along the whole length of the side of the container. A rod (53) is pivotally mounted on the one door (6) in the region of one edge (6c) and is provided with arms at opposite ends to interengage with the tracks of the cant rail and side rave. The rod (53) is rotatable by a handle (52) operated manually and such rotation facilitates movement of the edge of the door to which the rod is connected in a lateral direction relative to the longitudinally extending cant rail and side rave. Such construction permits maximum loading space within the container and safely prevents a load spilling out of the container when the door is opened or alternatively jamming the doors in their closed position.

0) US4700983A – CONSTRUCTION OF BODY OF MOTOR VEHICLE

43) Family number: 17139617 (US4700983A) © PatBase

Title: CONSTRUCTION OF BODY OF MOTOR VEHICLE

Priority: JP19840167012U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575760 D1	19900308	DE19853575760	19851031
EP0180234 A2	19860507	EP19850113890	19851031
EP0180234 A3	19861105	EP19850113890	19851031
EP0180234 B1	19900131	EP19850113890	19851031
JP1943397 Y	19930716	JP19840167012U	19841102
JP4011856 Y2	19920324	JP19840167012U	19841102
JP61081417 U1	19860530	JP19840167012U	19841102
US4700983 A	19871020	US19850793154	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std): TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 J ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN KK ; TOYOTA JIDOSHA K K

Inventor(s):(std): KINAGA EIICHI ; SHIRAISHI DAIICHI ; SHIRAISHI DIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class (IPC 8–9): B60J5/04 E05D3/06 E05D3/10 (Advanced/Invention); B60J5/04 E05D3/00 (Core/Invention)

International class (IPC 1–7): B60J5/04 E05D15/32 E05D3/06 E05D3/10 E05F1/08

CPC: Y10T16/53833 Y10T16/5389 Y10T16/5476 B60J5/0431 E05D3/10 E05D3/147 E05Y2900/531

European class: B60J5/04E2B12 E05D3/10 E05D3/14V2 P05Y900/531

US class: 16/288 16/308 16/370 296/146 296/146.11

Classification Explorer

Cited documents: US4502182 A, US4474402 A, US3969789 A, US3889316 A, US3758990 A, US3427682 A, US3339226 A, US3206186 A, US2948917 A, US2008256 A, JP60064122 U1, JP60064122 U, JP60031474 U1, JP60031474 U, JP58036767 U1, JP58036767 U, JP57082560 U1, JP57082560 U, JP57046014 U1, JP57046014 U, GB462033 A, GB447734 A, FR2542796 A1, FR1285896 A, EP0140245 A2, EP0136714 A2, EP0135929 A2, EP0135114 A2, EP0126438 A2, DE3223938 A1, DE1075958 B,

Forward Citations: US8347554, US7070225, US6938941, US6647592, US6149222, US4932101, US2011185637, US2005093335, US2005057063, FR2715894, EP2031166, EP1489255,

Abstract:
Source: US4700983A A door hinge mechanism and associated body of a motor vehicle is disclosed. The hinge mechanism has rotary center shafts supported on an end panel on the pivoting (rocking proximal) end of a side door, and rotary center shafts supported on a surface on the vehicle body adjacent the end panel. A first arm is rotatably connected at its opposite ends to a rotary center shaft on the vehicle body and to another rotary center shaft on the end panel of the door. A second arm is rotatably connected at its opposite ends to a rotary center shaft on the vehicle body and to a rotary center shaft on the door. A forward end corner portion of the end panel of the side door is raised forward on the compartment side of the vehicle body from the rear surface of the end panel where the side door hinge is secured. The raised portion of this configuration is attached to a weather strip mount. A weather strip attached thereto, comes into pressed contact with a weather strip contact surface on the vehicle body when the side door is fully closed.

0) US4713862A – SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

44) Family number: 19141652 (US4713862A) © PatBase

Title: SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

Priority: JP19840167005U 19841102 JP19840167006U 19841102 JP19840167009U 19841102 JP19840167011U 19841102 JP19840231679 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575758 D1	19900308	DE19853575758	19851031
EP0180232 A2	19860507	EP19850113886	19851031
EP0180232 A3	19861022	EP19850113886	19851031
EP0180232 B1	19900131	EP19850113886	19851031
JP1728396 C3	19930119	JP19840231679	19841102
JP1941439 Y	19930716	JP19840167005U	19841102
JP1941440 Y	19930716	JP19840167006U	19841102
JP1941443 Y	19930716	JP19840167011U	19841102
JP4009411 Y2	19920309	JP19840167005U	19841102
JP4009413 Y2	19920309	JP19840167011U	19841102
JP4009414 Y2	19920309	JP19840167006U	19841102
JP4015877 B4	19920319	JP19840231679	19841102
JP61080980 U1	19860529	JP19840167005U	19841102
JP61080981 U1	19860529	JP19840167006U	19841102
JP61080984 U1	19860529	JP19840167009U	19841102
JP61080986 U1	19860529	JP19840167011U	19841102
JP61110618 A2	19860528	JP19840231679	19841102
US4713862 A	19871222	US19850793246	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 J ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN KK ; TOYOTA JIDOSHA K K ; TOYOTA JIDOSHA K K TOYOTA AICHI JP

Inventor(s):(std)**:** SHIRAISHI DAIICHI ; KINAGA HIDEKAZU ; SHIRAISHI DIICHI ; KINAGA EIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/04 E05D11/00 E05D3/06 E05D3/10 E05D5/02 E05D7/00 (Advanced/Invention); B60J5/04 E05D11/00 E05D3/00 E05D5/00 E05D7/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/04 E05D11/00 E05D15/32 E05D3/06 E05D3/10 E05D5/02 E05D7/00

CPC: Y10T16/522 Y10T16/5476 E05D3/147 E05D3/10 E05Y2900/531

European class: E05D3/10 E05D3/14V2 P05Y900/531

US class: 16/223 16/370 296/146 296/146.11

Classification Explorer

Cited documents: US4502182 A, US4474402 A, US4116514 A, US3969789 A, US3889316 A, US3758990 A, US3427682 A, US3339226 A, US3206186 A, US2008256 A, JP60064122 A2, JP60031474 A2, JP58036767 A2, JP57046014 A2, JP55101263 A2, GB462033 A, GB447734 A, FR2542796 A1, FR1285896 A, EP0140245 A2, EP0136714 A2, EP0135929 A2, EP0135114 A2, EP0126438 A2, DE3223938 A1, DE1075958 B,

Forward Citations: USRE41143, US9777522, US9562383, US9562382, US8307512, US7032953, US6942277, US6817063, US6647592, US6629337, US6149222, US5611114,

Abstract:
Source: US4713862A A quadric rotary link device for a side door hinge mechanism in a motor vehicle is disclosed. The device has first and second arms connected by rotary center shafts to a vehicle body and a side door. The hinge mechanism has a door side base and a body side base formed long in the vertical direction. The door side base is secured to the rocking proximal end of the side door. The body side base is secured to a vertical surface of the vehicle body. There are four top rotary center shafts and four bottom rotary center shafts supported at two pairs of positions in the top and bottom of the door side base and the body side base, respectively.

0) US4665586A – SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

45) Family number: 16224013 (US4665586A) © PatBase

Title: SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

Priority: JP19840167001U 19841102 JP19840167007U 19841102 JP19840167008U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575759 D1	19900308	DE19853575759	19851031
EP0180233 A2	19860507	EP19850113887	19851031
EP0180233 A3	19861029	EP19850113887	19851031
EP0180233 B1	19900131	EP19850113887	19851031
JP1941441 Y	19930716	JP19840167007U	19841102
JP1961056 Y	19931126	JP19840167001U	19841102
JP1961057 Y	19931126	JP19840167008U	19841102
JP4009419 Y2	19920309	JP19840167007U	19841102
JP4028378 Y2	19920709	JP19840167001U	19841102
JP4028379 Y2	19920709	JP19840167008U	19841102
JP61080976 U1	19860529	JP19840167001U	19841102
JP61080982 U1	19860529	JP19840167007U	19841102
JP61080983 U1	19860529	JP19840167008U	19841102
US4665586 A	19870519	US19850793230	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA KABUSIKI KAISHA ; TOYOTA JIDOSHA KABUSIKI KAISHA 1 TOYOTA CHO TOYOTA ; TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA KABUSIKI KAISHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN ; TOYOTA JIDOSHA K K ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA KABUSHIKI KAISHA

Inventor(s):(std)**:** KINAGA EIICHI ; SHIRAISHI DAIICHI ; SHIRAISHI DIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/04 E05C17/34 E05D11/10 E05D3/06 E05D3/10 (Advanced/Invention); E05D15/32 (Advanced/Non–invention); E05D11/00 E05D3/00 (Core/Invention); E05D15/00 (Core/Non–invention)

International class (IPC 1–7)**:** B60J5/04 E05C17/28 E05D11/10 E05D3/06 E05D3/10

CPC: Y10T16/54 Y10T16/5476 Y10T16/5478 E05D3/147 E05D3/10 E05D11/1042 E05D15/32 E05Y2900/531

European class: E05D11/10E2 E05D3/10 E05D3/14V2 P05D15/32 P05Y900/531

US class: 16/319 16/370 16/371 248/74.3

Classification Explorer

Cited documents: US3969789 A, US3339226 A, US3206186 A, US2008256 A, JP60064122 A2, JP60031474 A2, JP59167008 A2, JP59167001 A2, JP57046014 A2, JP55101263 A2, GB462033 A, FR2542796 A1, DE3223938 A1,

Forward Citations: WO0102682, US6817065, US6606763, US2004189164, EP0596403, DE4321797, DE19930328, DE19930322,

Abstract:
Source: US4665586A A motor vehicle is provided with a side door hinge mechanism having rotary center shafts, two rotatable arms and a door check mechanism. The rotary center shafts are supported at two positions on the rocking proximal end of the side door and at two positions on the side of the vehicle body. The first arm is rotatably connected at its opposite ends by a rotary center shaft on the side of the vehicle body and a rotary

center shaft on the side of the door. The second arm is rotatably connected at its opposite ends to a rotary center shaft on the side of the vehicle body and a rotary center shaft on the side of the door and is in a plane parallel to and directly below the first arm. The door check mechanism is comprised of a torsion bar, a cam plate and a roller. The torsion bar is mounted to either the first or the second arm. The cam plate is mounted on a side door of the vehicle body. A roller is rotatably supported on the torsion bar and rotatably urged against the surface of the cam plate by a torsion force. A door check force is generated by lifting the surface of the cam plate.

0) US4665587A – SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

46) Family number: 17139630 (US4665587A) © PatBase

Title: SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

Priority: JP19840167003U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575175 D1	19900208	DE19853575175	19851031
EP0180235 A2	19860507	EP19850113892	19851031
EP0180235 A3	19861029	EP19850113892	19851031
EP0180235 B1	19900103	EP19850113892	19851031
JP1941437 Y	19930716	JP19840167003U	19841102
JP4009410 Y2	19920309	JP19840167003U	19841102
JP61080978 U1	19860529	JP19840167003U	19841102
US4665587 A	19870519	US19850793247	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN KK ; TOYOTA JIDOSA KK ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** KINAGA EIICHI ; SHIRAISHI DAIICHI ; SHIRAISHI DIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class(IPC 8–9)**:** B60J5/04 E05D3/06 E05D3/10 (Advanced/Invention); B60J5/04 E05D3/00 (Core/Invention)

International class(IPC 1–7)**:** B60J5/04 E05D3/06 E05D3/10

CPC: Y10T16/54 Y10T16/5476 Y10T16/5478 E05D3/10

European class: E05D3/10

US class: 16/319 16/370 16/371

Classification Explorer

Cited documents: US3969789 A, US3339226 A, US3206186 A, US2008256 A, GB462033 A, FR2542796 A1, EP0140245 A2,

Forward Citations: US6817065, US6149222, US5524323, US2017241179,

Abstract:
Source: US4665587A A light weight, rigid side door hinge mechanism for a motor vehicle is disclosed. The hinge has four top rotary center shafts, two of which are supported at two positions spaced apart from each other in a generally horizontal direction on an end of the door, and the other two at two positions on a surface on the side of the vehicle body disposed adjacent to the end of the door. Four bottom rotary center shafts are also provided: two shafts are supported at two positions on the end of the side door and two shafts are supported at the surface of the side of the vehicle body. The four bottom shafts are aligned with the four top rotary center shafts. A top control arm is rotatably connected at its opposite ends to one of the top rotary center shafts on the vehicle body and one of the top rotary center shafts on the door. A bottom control arm is rotatably connected at opposite ends to the bottom rotary center shafts aligned with the top rotary center shafts at the opposite ends of the top control arm. A vertical integral main arm is rotatably connected at its ends in the vertical and lateral directions to the remaining top rotary center shaft and the remaining bottom rotary center shaft.

0) US4716623A – SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

47) Family number: 17381947 (US4716623A) © PatBase

Title: SIDE DOOR HINGE MECHANISM IN MOTOR VEHICLE

Priority: JP19840167002U 19841102 JP19840167004U 19841102 JP19840167010U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3575761 D1	19900308	DE19853575761	19851031
EP0180923 A2	19860514	EP19850113891	19851031
EP0180923 A3	19861029	EP19850113891	19851031
EP0180923 B1	19900131	EP19850113891	19851031
JP1941436 Y	19930716	JP19840167002U	19841102
JP1941438 Y	19930716	JP19840167004U	19841102
JP1941442 Y	19930716	JP19840167010U	19841102
JP4009409 Y2	19920309	JP19840167002U	19841102
JP4009412 Y2	19920309	JP19840167010U	19841102
JP4009418 Y2	19920309	JP19840167004U	19841102
JP61080977 U1	19860529	JP19840167002U	19841102
JP61080979 U1	19860529	JP19840167004U	19841102
JP61080985 U1	19860529	JP19840167010U	19841102
US4716623 A	19880105	US19850793152	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA K K ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** SHIRAISHI DAIICHI ; KINAGA EIICHI ; SHIRAISHI DIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/04 E05D11/06 E05D3/06 E05D3/10 (Advanced/Invention); B60J5/04 E05D11/00 E05D3/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/04 E05D11/06 E05D3/06 E05D3/10

CPC: Y10T16/522 Y10T16/5389 Y10T16/5476 Y10T16/5478 E05D3/147 E05D3/10 E05Y2900/531

European class: E05D3/10 E05D3/14V2 P05Y900/531

US class: 16/223 16/308 16/370 16/371 296/146 296/146.11

Classification Explorer

Cited documents: US4502182 A, US4474402 A, US3969789 A, US3889316 A, US3758990 A, US3427682 A, US3339226 A, US3206186 A, US2948917 A, US2008256 A, JP60064122 U1, JP60064122 U, JP60031474 U1, JP60031474 U, JP58036767 U1, JP58036767 U, JP57046014 U1, JP57046014 U, JP55101263 A2, GB462033 A, GB447734 A, FR2542796 A1, FR1285846 A, EP0140245 A2, EP0136714 A2, EP0135429 A1, EP0135114 A2, EP0126438 A2, DE3223938 A1, DE1075958 B,

Forward Citations: WO15032476, US8307512, US6974177, US6844497, US6817063, US6647592, US6382705, US6149222, US6052870, US5611114, US2017241179, US2010257700, US2009140551, US2005127712, US2003183411, FR2716842, DE102013014894, CN101858178, CN101858178,

Abstract:
Source: US4716623A A side door hinge mechanism for a motor vehicle includes a pair of top rotary center shafts supported on an end of the door at a top portion thereof, a pair of top rotary center shafts supported on the vehicle body, a pair of bottom rotary center shafts supported on the door, and a pair of bottom rotary center shafts

supported on the vehicle body. The bottom rotary center shafts are aligned with the top rotary center shafts. A top control arm in rotatably connected at opposite ends to one of the top rotary center shafts on the vehicle body and one of the top rotary center shafts on the door. A bottom control arm is rotatably connected at opposite ends to the bottom rotary center shafts which are aligned with the top rotary center shafts which are rotatably connected to the top control arm. A main arm is formed integrally in the vertical direction, and i rotatably connected at its end portion to the remaining top and bottom rotary center shafts. The main arm includes a large diameter pipe portion, a top arm and a bottom arm.

0) US4700984A – CONSTRUCTION OF BODY OF MOTOR VEHICLE

48) Family number: 17139986 (US4700984A) © PatBase

Title: CONSTRUCTION OF BODY OF MOTOR VEHICLE

Priority: JP19840167013U 19841102

Family:

Publication number	Publication date	Application number	Application date
DE3577462 D1	19910523	DE19853577462	19851031
EP0180922 A2	19860514	EP19850113889	19851031
EP0180922 A3	19861203	EP19850113889	19851031
EP0180922 B1	19900502	EP19850113889	19851031
JP1943398 Y	19930716	JP19840167013U	19841102
JP4011857 Y2	19920324	JP19840167013U	19841102
JP61081418 U1	19860530	JP19840167013U	19841102
US4700984 A	19871020	US19850793150	19851031

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std): TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 J ; TOYOTA JIDOSHA 1 TOYOTA CHO TOYOTA SHI AICHI 471 JAPAN KK ; TOYOTA JIDOSHA K K ; TOYOTA JIDOSHA K K TOYOTA AICHI JP ; TOYOTA JIDOSHA KABUSHIKI KAISHA

Inventor(s):(std): SHIRAISHI DIICHI ; SHIRAISHI DAIICHI ; KINAGA EIICHI

Inventor(s): SHIRAISHI DIICHI TOYOTA SHI AICHI KEN JP

Designated states: DE FR GB

International class (IPC 8–9): B60J5/04 E05D3/06 E05D3/10 (Advanced/Invention); B60J5/04 E05D3/00 (Core/Invention)

International class (IPC 1–7): B60J5/04 E05D15/32 E05D3/06 E05D3/10 E05F1/08

CPC: Y10T16/53833 Y10T16/5389 Y10T16/5476 E05D3/10 E05D3/147 E05Y2900/531

European class: E05D3/10 E05D3/14V2 P05Y900/531

US class: 16/288 16/308 16/370 296/146 296/146.11

Classification Explorer

Cited documents: US4502182 A, US4474402 A, US3969789 A, US3889316 A, US3758990 A, US3427682 A, US3339226 A, US3206186 A, US2948917 A, US2008256 A, JP60064122 U1, JP60064122 U, JP60031474 U1, JP60031474 U, JP58036767 U1, JP58036767 U, JP58036766 U1, JP58036766 U, JP57046014 U1, JP57046014 U, JP55101263 A2, GB462033 A, GB447734 A, FR2542796 A1, FR1285896 A, EP0140245 A2, EP0136714 A2, EP0135929 A2, EP0135114 A2, EP0126438 A2, DE3223938 A1, DE1075958 B,

Forward Citations: US9777522, US9562383, US9562382, US8413382, US8347554, US7150492, US7032953, US6817063, US6386621, US6196618, US6175991, US6149222, US5611114, US2011185637, US2011126469, US2005212325, US2005184556,

Abstract:
Source: US4700984A A door hinge mechanism for a motor vehicle is disclosed. The hinge has four rotary center shafts, two of which are supported at positions on an end of the side door, and two others at two positions on a surface on the side of the vehicle body disposed adjacent to the end of the door. A first arm is rotatably connected at its opposite ends to one of the rotary center shafts on the vehicle body and one of the rotary center shafts on the door. A second arm is rotatably connected at its opposite ends to the remaining rotary center shafts. A rear end portion of a front side fender is located at a position adjacent to and in front of the forward end of the side door. A portion of the end face of the side door is disposed outwardly in the widthwise direction and extended forward from the end face of the body of the vehicle to form an extension for covering the outer surface of the side door hinge mechanism.

0) DE3729643A1 – FOLDING WALL FOR VEHICLE BODIES WITH ANTI–WEAR ...

49) Family number: 7297272 (DE3729643A1) © PatBase

Title: Folding wall for vehicle bodies with anti–wear protection

Priority: DE19873729643 19870904

Family:

Publication number	Publication date	Application number	Application date
DE3729643 A1	19890323	DE19873729643	19870904

Probable Assignee: GROSS ALUMINIUM GMBH

Assignee(s):(std)**:** GROSS ALUMINIUM GMBH

Inventor(s):(std)**:** GROSS GERHARD H DIPL ING

Inventor(s): H ; H DIPL ING GROSS GERHARD

International class (IPC 8–9)**:** B60J5/10 B62D33/023 (Advanced/Invention); B60J5/10 B62D33/02 (Core/Invention)

International class (IPC 1–7)**:** B62D33/02 B62D33/04

CPC: B60J5/108 B62D33/023

European class: B60J5/10B B60J5/10F B62D33/023

Classification Explorer

Abstract:
Source: DE3729643A1 A folding wall for vehicle bodies has a peripheral profile which in the closed state of the folding wall rests against a stop via a shoulder. The stop is part of the vehicle body and can, for example, be a rung. In order to prevent metallic contact and thus wear, in particular of the peripheral profile, which is usually produced from a lightweight metal extruded profile, a guide which is preferably dovetail–shaped is provided on the shoulder. A profile consisting of abrasion–resistant plastic, for example polytetrafluoroethylene, can be inserted into this guide. A metallic contact between the peripheral profile and the corresponding stop is thus avoided. In this way, excessive wear on the shoulder of the peripheral profile is avoided.

0) US5054847A – FLEXIBLE TOP APPARATUS FOR A VEHICLE

50) Family number: 4282732 (US5054847A) © PatBase

Title: Flexible top apparatus for a vehicle

Priority: JP19880153291 19880620 JP19880162045 19880628 JP19890137016 19890529

Family:

Publication number	Publication date	Application number	Application date
DE68909322 D1	19931028	DE19896009322	19890620
DE68909322 T2	19940428	DE19896009322T	19890620
EP0347859 A2	19891227	EP19890111239	19890620
EP0347859 A3	19910403	EP19890111239	19890620
EP0347859 B1	19930922	EP19890111239	19890620
JP2011416 A2	19900116	JP19880162045	19880628
JP2077324 A2	19900316	JP19890137016	19890529
KR920007237 B1	19920828	KR19890008496	19890620
US5054847 A	19911008	US19890367749	19890619

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR A CORP OF JAPAN CORP ; MAZDA MOTOR CO ; MAZDA MOTOR CO LTD ; MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP

Inventor(s):(std)**:** ASO SEIICHI ; ASOH SEIICHI ; FUKUDA HITOKI ; FUKUDA KAZUKI ; KOHNO SHIGEFUMI ; KUBOTA SATOSHI ; MURAKAMI FUMIYUKI ; TAGUCHI TOMOO ; USHIJIMA KAZUHIRO ; USHIJIMA KATSUHIRO ; TAKANO SHIGEFUMI ; KONO SHIGEFUMI ; FUKUDA HIROKI ; ASOU SEIICHI ; USHIJIMA KAJUHIRO C O MAZDA MO ; TAGUCHI TOMOO C O MAZDA MOTOR ; MURAKAMI FUMIYUKI C O MAZDA MO ; KUBOTA SATOSHI C O MAZDA MOTOR ; KOHNO SHIGEFUMI C O MAZDA MOTO ; FUKUDA HITOKI C O MAZDA MOTOR ; ASOH SEIICHI C O MAZDA MOTOR C ; USHIJIMA KAJUHIRO

Inventor(s): USHIJIMA KAJUHIRO C O MAZDA MOTOR CORPORATION ; ASOH SEIICHI C O MAZDA MOTOR CORPORATION AKI... ; ASOH SEIICHI C O MAZDA MOTOR CORPORATION AKI GUN H ; KOHNO SHIGEFUMI C O MAZDA MOTOR CORPORATION... ; KOHNO SHIGEFUMI C O MAZDA MOTOR CORPORATION AKI GU ; FUKUDA HITOKI C O MAZDA MOTOR CORPORATION AKI... ; FUKUDA HITOKI C O MAZDA MOTOR CORPORATION AKI GUN ; TAGUCHI TOMOO C O MAZDA MOTOR CORPORATION AKI... ; TAGUCHI TOMOO C O MAZDA MOTOR CORPORATION AKI GUN ; MURAKAMI FUMIYUKI C O MAZDA MOTOR CORPORATIO... ; MURAKAMI FUMIYUKI C O MAZDA MOTOR CORPORATIO AKI G ; KUBOTA SATOSHI C O MAZDA MOTOR CORPORATION AKI... ; KUBOTA SATOSHI C O MAZDA MOTOR CORPORATION AKI GUN ; USHIJIMA KAJUHIRO C O MAZDA MOTOR CORPORATIO... ; USHIJIMA KAJUHIRO C O MAZDA MOTOR CORPORATIO AKI K ; TAGUCHI TOMOO C O MAZDA MOTOR CORPORATION ; MURAKAMI FUMIYUKI C O MAZDA MOTOR CORPORATION ; KUBOTA SATOSHI C O MAZDA MOTOR CORPORATION ; FUKUDA HITOKI C O MAZDA MOTOR CORPORATION ; ASOH SEIICHI C O MAZDA MOTOR CORPORATION

Designated states: DE FR GB

International class (IPC 8–9): B60J7/06 B60J7/12 B60J7/20 (Advanced/Invention); B60J7/00 B60J7/02 (Core/Invention)

International class (IPC 1–7): B60J7/06 B60J7/12 B60J7/20

CPC: B60J7/061 B60J7/202

European class: B60J7/06B B60J7/20 B60J7/20C

US class: 296/124 296/219

Classification Explorer

Cited documents: US3823977 A, US3357738 A, US3338624 A, US2985483 A, US2845299 A, US2785922 A, US2770489 A, US2747928 A, US2694598 A, US1922545 A, JP63082883 A2,

JP62103621 B4, JP61247515 B4, JP61030525 B4, IT475695 A, IT439249 A, GB444907 A, FR635755 A,

Forward Citations: WO9812061, WO0238406, US8657360, US7334835, US7320499, US7172242, US7063372, US6926354, US6676192, US5310241, US2008174153, US2007096510, US2006043775, US2006012223, US2004051347, US2004021345, FR2987334, FR2979292, FR2821303, EP2631159, EP2468548, EP1808321, EP1808321, EP1281550, EP1078799, DE10247556, DE102010056246, DE102008045573, DE102008045573, DE102005041743, DE102005041743, DE10138370, DE10138370,

Abstract:
Source: US5054847A A roof panel connected to the vehicle body through at least a pair of left−hand and right−hand front pillars and a pair of left−hand and right−hand rear pillars is provided with a wide open roof panel opening enclosed by a front header, a pair of left−hand and right−hand roof side rails and a rear header. To the pair of left−hand and right−hand rear pillars and the rear header is fixed a rear window glass panel. In order to close the roof panel opening, there is provided a flexible top foldable or windable. When the roof panel opening is in a closed state, a forward end portion of the flexible top is in abutment with said front header, its left−hand and right−hand side end portions are abutted with the left−hand and right−hand roof side rails, and its rearward end portion is in abutment with the rear header. The flexible top is displaceable along the roof side rails and the rear pillars. When the roof panel opening is in an open state, the flexible top is housed or accommodated in a folded or wound state at a position rearward of the rear window glass panel and nearby its lower end portion.

0) US5052747A – FLEXIBLE TOP APPARATUS OF A VEHICLE

51) Family number: 4783380 (US5052747A) © PatBase

Title: Flexible top apparatus of a vehicle

Priority: JP19880191662 19880730 US19890385730 19890727

Family:

Publication number	Publication date	Application number	Application date
DE3925150 A1	19900201	DE19893925150	19890728
DE3925150 C2	19930603	DE19893925150	19890728
JP1979962 C3	19951017	JP19880191662	19880730
JP2041925 A2	19900213	JP19880191662	19880730
JP6104418 B4	19941221	JP19880191662	19880730
KR930003580 B1	19930508	KR19890010598	19890726
US5052747 A	19911001	US19910676464	19910326

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP ; MAZDA CO LTD

Inventor(s):(std)**:** KUBOTA SATOSHI ; YOKOUCHI TAKAHITO

Inventor(s): YOKOUCHI TAKAHITO HIROSHIMA JP

International class (IPC 8–9): B60J7/06 B60J7/12 (Advanced/Invention); B60J7/02 B60J7/08 (Core/Invention)

International class (IPC 1–7): B06J7/12 B60J7/06 B60J7/12

CPC: B60J7/064

European class: B60J7/06B4

US class: 296/107 296/107.09 296/107.16 296/219

Classification Explorer

Cited documents: US4830428 A, US4572570 A, US2694598 A, US1860463 A, JP63162326 A2, JP63061629 A2, JP62031516 A2, JP62026118 A2, JP16232688 A2, GB637871 A, GB1315364 A, DE830001 A, DE2032144 A1,

Forward Citations: WO07093155, WO04037583, US9283833, US7938483, US7922232, US7896430, US7828364, US7320499, US7172242, US6793267, US6676192, US6497448, US6416121, US6398296, US6161893, US6055953, US6015184, US5941592, US5572967, US5242210, US2015165878, US2008290696, US2008231071, US2008185877, US2007096510, US2006012223, US2003038501, JP2013540648, JP2001105877, JP2001030766, FR2921870, FR2810590, FR2766429, EP1554147, EP1500541, EP1167096, EP1080966, DE4314717, DE19638846, DE19638846, DE19616971, DE19604855,

Abstract:
Source: US5052747A In a roof panel connected to a vehicle body through at least a pair of left−hand and right−hand front pillars and a pair of left−hand and right−hand rear pillars, there is formed a roof opening (3) large in size in such a manner as leaving a front header, a pair of left−hand and right−hand roof side rails, and a rear header and being surrounded by said four members. A foldable or windable flexible top having a size as substantially large as the roof opening is provided. The flexible top is disposed to selectively take a first posture in which the roof opening is closed and a second posture in which it is contracted in a longitudinal direction of the body and placed in a contracted state, i.e., in a folded or wound state, at a position nearby said rear header. The flexible top in such a contracted state is guided by a guiding means and transferred between the second posture and a third posture located nearby a lower end portion of the rear window glass panel in a spaced relationship away from and without contact with the rear window glass panel and the rear pillars.

0) US5018784A – FLEXIBLE TOP APPARATUS OF A VEHICLE

52) Family number: 29584815 (US5018784A) © PatBase

Title: Flexible top apparatus of a vehicle

Priority: JP19880115562U 19880831 JP19880191605 19880730 JP19880218969 19880831

Family:

Publication number	Publication date	Application number	Application date
DE68910038 D1	19931125	DE19896010038	19890731
DE68910038 T2	19940505	DE19896010038T	19890731
EP0353695 A2	19900207	EP19890114128	19890731
EP0353695 A3	19910410	EP19890114128	19890731
EP0353695 B1	19931020	EP19890114128	19890731
JP1970897 C3	19950918	JP19880191605	19880730
JP1972456 C3	19950927	JP19880218969	19880831
JP2035826 U1	19900308	JP19880115562U	19880831
JP2041924 A2	19900213	JP19880191605	19880730
JP2060270 Y	19960326	JP19880115562U	19880831
JP2068220 A2	19900307	JP19880218969	19880831
JP6030511 Y2	19940817	JP19880115562U	19880831
JP6104417 B4	19941221	JP19880191605	19880730
JP6104419 B4	19941221	JP19880218969	19880831
KR930000747 B1	19930130	KR19890010794	19890729
US5018784 A	19910528	US19890386734	19890731

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP

Inventor(s):(std)**:** MATSUMOTO KENJI ; ODOI KOZO ; YOKOUCHI TAKAHITO ; OTOI KOJO ; OODOI KOUZOU

Inventor(s): YOKOUCHI TAKAHITO FUCHU CHO AKI GUN HIROSHIMA KEN ; ODOI KOZO FUCHU CHO AKI GUN HIROSHIMA KEN JP ; MATSUMOTO KENJI FUCHU CHO AKI GUN HIROSHIMA KEN JP ; YOKOUCHI TAKAHITO FUCHU CHO AKI GUN HIROSHIMA...

Designated states: DE FR GB

International class (IPC 8–9): B60J7/047 B60J7/06 B60J7/12 B60J7/185 B60J7/20 (Advanced/Invention); B60J7/00 B60J7/02 B60J7/04 B60J7/08 (Core/Invention)

International class (IPC 1–7): B60J7/06 B60J7/12

CPC: B60J7/047 B60J7/061 B60J7/201

European class: B60J7/047 B60J7/06B B60J7/20B

US class: 296/219 296/223 296/224

Classification Explorer

Cited documents: US2964598 A, JP63162326 A2, GB444907 A, DE3816977 A1, CH149292 A,

Forward Citations: WO9425301, WO07093155, WO0114157, US9522591, US9283833, US7896430, US7320499, US6942286, US6428093, US6398296, US6288511, US6246199, US6114819, US6012767, US5971473, US5825147, US5765908, US5470126, US5451849, US5242210, US5190007, US2015165878, US2012161464, US2007096510, US2007024080, JP4558761, JP4534236, JP4243480, JP2011168275, JP2009096268, JP2007269318, JP2004513017, FR2928873, FR2898858, FR2797816, FR2797814, FR2797813, FR2679495, ES2153741, EP2103467, EP1500541, EP1123220, EP1078799, EP1063112, DE19604855, DE19531074,

Abstract:
Source: US5018784A In a roof panel connected to a vehicle body through at least a pair of left−hand and right−hand front pillars and a pair of left−hand and right−hand rear pillars, there is formed a roof opening large in size in such a manner as leaving a front header, a pair of left−hand and right−hand roof side rails, and a rear header and being surrounded by said four members. A foldable flexible top having a size as substantially large as the roof opening is provided. The flexible top is disposed to selectively take a first posture in which the roof opening is closed and a second posture in which it is contracted in a longitudinal direction of the body and placed in a contracted state, i.e., in a folded state, at a position nearby said rear header. Underneath the flexible top in the second posture, a board member supporting the flexible top is disposed, and the board member is movable between the second posture and a third posture rearward of the second posture by means of a guiding device consisting of a link mechanism and so on while the board member supports the flexible top. The third posture is set at a position in a vicinity of a lower end portion of the rear window glass panel.

0) US4968089A – FLEXIBLE TOP APPARATUS OF A VEHICLE

53) Family number: 4319681 (US4968089A) © PatBase

Title: Flexible top apparatus of a vehicle

Priority: JP19880327162 19881223

Family:

Publication number	Publication date	Application number	Application date
DE3942746 A1	19900628	DE19893942746	19891222
DE3942746 C2	19921224	DE19893942746	19891222
JP1971107 C3	19950927	JP19880327162	19881223
JP2171324 A2	19900703	JP19880327162	19881223
JP6104420 B4	19941221	JP19880327162	19881223
KR930000748 B1	19930130	KR19890019298	19891222
US4968089 A	19901106	US19890456161	19891222

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP

Inventor(s):(std)**:** MURAI TAKESHI ; TONEGAWA MIYUKI ; TONEGAWA YOSHIYUKI

Inventor(s): TONEGAWA MIYUKI HIROSHIMA JP

International class (IPC 8–9): B60J7/047 B60J7/057 B60J7/06 B60J7/12 B60J7/185 B60J7/20 (Advanced/Invention); B60J7/00 B60J7/02 B60J7/04 B60J7/08 (Core/Invention)

International class (IPC 1–7): B60J7/057 B60J7/06 B60J7/08 B60J7/12

CPC: B60J7/047 B60J7/0573 B60J7/061 B60J7/201

European class: B60J7/047 B60J7/057B B60J7/06B B60J7/20B

US class: 296/124 296/219 296/223 296/224

Classification Explorer

Cited documents: US4572570 A, JP63162326 A2, JP62251232 A2, JP60146723 A2, GB1315364 A, DE3439207 C2, DE3328193 C2,

Forward Citations: WO0189869, WO0119633, WO0114157, US9688121, US7465108, US7429139, US7303225, US7267496, US7111997, US7059783, US6944913, US6709172, US6709171, US6672658, US6669201, US6497448, US6375370, US6267433, US5941592, US5470126, US2016207378, US2008211905, US2008100707, US2008012941, US2007248352, US2007018788, US2006279103, US2006120714, US2005226610, US2004264954, US2004258404, US2004216276, JP2001030766, FR2798327, FR2797815, EP2147814, EP1284879, EP1123220, EP1121258, EP1063112, EP1060926, EP1060923, DE4009470, DE19604855, DE19520648,

Abstract:
Source: US4968089A A roof panel connected to the vehicle body through at least a pair of left−hand and right−hand front pillars and a pair of left−hand and right−hand rear pillars is provided with a wide open roof aperture enclosed by a front header, a pair of left−hand and right−hand roof side rails and a rear header. To the pair of left−hand and right−hand rear pillars and the rear header is fixed a rear window glass panel. In order to close the roof aperture, there is provided a flexible top which is foldable in the longitudinal direction of the body. When the roof aperture is in a closed state, a forward end portion of the flexible top is in abutment with said front header, its left−hand and right−hand side end portions are abutted with the left−hand and right−hand roof side rails, and its rearward end portion is in abutment with the rear header. The flexible top in a folded state takes a first position located over a trunk lid, while it takes a second position when it is evacuated from the first position when the trunk lid is opened.

0) US5242210A – CONTROL APPARATUS FOR OPENING OR CLOSING ROOF O...

54) Family number: 11279128 (US5242210A) © PatBase

Title: Control apparatus for opening or closing roof of a vehicle

Priority: JP19890072779 19890324 US19900497656 19900323 US19900601104 19901022 US19910772130 19911009

Family:

Publication number	Publication date	Application number	Application date
DE4009470 A1	19901115	DE19904009470	19900323
DE4009470 C2	19930218	DE19904009470	19900323
JP2249722 A2	19901005	JP19890072779	19890324
KR930006159 B1	19930708	KR19900003999	19900324
US5242210 A	19930907	US19910772130	19911009

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP ; MAZDA CO LTD

Inventor(s):(std)**:** OKADA SEICHI ; OKADA YASUHARU ; ITO KANJI ; FUJISAWA TSUKASA ; OKADA SEIJI ; KAWAUCHI NOBUE ; ITOH MIKIHARU ; FUJISAWA TAKASHI ; ITO MIKIHARU

Inventor(s): KAWAUCHI NOBUE HIROSHIMA JP

International class (IPC 8–9): B60J7/06 B60J7/12 (Advanced/Invention); B60J7/02 B60J7/08 (Core/Invention)

International class (IPC 1–7): B60J7/00 B60J7/057 B60J7/06 B60J7/08 B60J7/12 B60R16/02

CPC: B60J7/061

European class: B60J7/06B

US class: 296/219 296/223 701/49

Classification Explorer

Cited documents: US5052747 A, US5018784 A, US4700982 A, US4644235 A, US4572570 A, US3823977 A, US3357738 A, US2985483 A, JP1071323 A2, GB1315364 A, EP0353695 A2, DE3942746 A1,

Forward Citations: WO13031441, WO07093155, US9090149, US7938483, US7896430, US7527328, US7399030, US7303227, US7078640, US6672658, US6497448, US6398296, US6288511, US6246199, US6114819, US5825147, US5451849, US2012041648, US2008290697, US2008290696, US2007114818, US2007102967, US2006145518, US2006037850, US2005280293, JP2013031441, JP2001105878, JP2001030766, FR2937591, FR2904794, FR2904793, FR2766429, EP2065238, DE19731330, DE19731330,

Abstract:
Source: US5242210A A roof panel connected to a vehicle body through at least a pair of front pillars and a pair of rear pillars is provided with a large aperture on the roof with a front header and a pair of roof side rails. A rear window glass panel is fixed to the rear pillars and the rear header. A flexible top is contractible or expandable in a longitudinal direction of the vehicle and disposed so as to uncover or cover the roof aperture. When the flexible top closes the roof aperture, it is abutted at its front end portion with the front header, at its side end portions with the roof side rails, and at its rear end portion with the rear header. When the top is in a folded state, it is located in a second posture nearby the trunk lid. The top can be transferred up to its third posture in a position nearby a lower end portion of the rear window glass panel. Vertical movement of the top at least between the second and third postures can automatically be performed by a control unit in condition where the vehicle halts. The vertical movement of the top can be continued when the vehicle is shifted to its running state in the course of a transfer thereof between the second and third postures, thereby ensuring a transfer to the second posture or to the third posture.

0) US5048887A – SEALING ARRANGEMENT FOR VEHICLE BODY CLOSURE ST...

55) Family number: 4765553 (US5048887A) © PatBase

Title: SEALING ARRANGEMENT FOR VEHICLE BODY CLOSURE STRUCTURES

Priority: JP19890251879 19890929

Family:

Publication number	Publication date	Application number	Application date
DE4030171 A1	19910418	DE19904030171	19900924
JP3114940 A2	19910516	JP19890251879	19890929
KR950004303 B1	19950428	KR19900015879	19900929
US5048887 A	19910917	US19900584573	19900918

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA JP ; MAZDA CO ; MAZDA CO LTD

Inventor(s):(std)**:** NISHIGAMI TAKASHI ; KUNISHIMA TETUO ; KUNISHIMA TETSUO ; UEDA MINORU

Inventor(s): NISHIGAMI TAKASHI HIROSHIMA JP ; 1

International class (IPC 8–9)**:** B60J10/00 B60J10/04 B60J10/08 B60J5/04 B60R13/06 (Advanced/Invention); B60J10/00 B60J10/02 B60J5/04 B60R13/06 (Core/Invention)

International class (IPC 1–7)**:** B60J10/00 B60J10/08 B60J5/04 B60R13/06

CPC: B60J10/24 B60J10/76 B60J10/84 B60J10/86

European class: B60J10/00D5 B60J10/04D B60J10/08B B60J10/08C

US class: 296/146 296/146.9 296/202 296/203 296/203.03 49/485 49/490.1 49/498.1

Classification Explorer

Cited documents: US4969295 A, US4549761 A, JP61120611 U1, JP61120611 A2, JP60170217 B4, DE3739355 A1, DE3227153 A1,

Forward Citations: WO9218368, US9174680, US9027989, US7171785, US6692065, US6644725, US6393766, US6129410, US6116680, US5499475, US5331768, US2015115663, US2015115662,

Abstract:
Source: US5048887A An automotive vehicle body has a body opening defined by body structural members and a closure structure mounted on one of the body structural members for swinging movement between closed and opened positions. A sealing arrangement for the closure structure includes a corner bracket structure formed at a front upper portion of the closure structure, a reinforcement formed on one of the body structural members at a front upper portion of the body opening, and a continuous sealing member securely attached to the body structural members and a lower edge of the reinforcement. When the closure structure is in a closed position, the sealing member is in abutment with an inwardly facing surface of a sash member of the closure structure at the location above the corner bracket structure and gradually departs from the sash member in a rearward direction of the vehicle body at the location of the corner bracket structure.

0) JP4166419A – CENTER SEAL RUBBER FOR AUTOMOBILE

56) Family number: 7896910 (JP4166419A) © PatBase

Title: CENTER SEAL RUBBER FOR AUTOMOBILE

Priority: JP19900292787 19901030

Family:

Publication number	Publication date	Application number	Application date
JP2022342 C3	19960226	JP19900292787	19901030
JP4166419 A2	19920612	JP19900292787	19901030
JP7057574 B4	19950621	JP19900292787	19901030

Probable Assignee: KINUGAWA RUBBER IND

Assignee(s):(std)**:** KINUGAWA RUBBER IND

Assignee(s): KINUGAWA RUBBER IND CO LTD

Inventor(s):(std)**:** HONDA TAKAYUKI ; SHIMIZU NORIMITSU

International class (IPC 8–9)**:** B60J10/04 B60R13/06 E06B7/23 (Advanced/Invention); B60J10/02 B60R13/06 E06B7/22 (Core/Invention)

International class (IPC 1–7)**:** B60J10/04 B60R13/06 E06B7/23

Classification Explorer

Cited documents: JP61185611 U1, JP57130822 A2, JP1226420 A2,

Abstract:
Source: JP4166419A PURPOSE:To improve sealing ability and to prevent the occurrence of deterioration with a year by extending a plane part in the direction of the outside of a car through a taperform thin section part from the upper part of the side wall of a seal lip making contact with the weather strip of the upper edge of the opening part of a car body, in a four–door hard top type car having no center pillar. CONSTITUTION:A center seal rubber 10 comprises a mounting base part 4 in a U–shape in cross section engaged with the front edge of a rear door glass 1 and a seal lip 5 in the shape of a hook in cross section brought into pressure contact with the rear edge of a front door glass 3 from the inside of a car. A tapered thin section part 8 is formed to the upper part of the side wall of the seal lip 5 and brought into pressure contact with a weather strip 7 of the opening part of a car body togetherwith the upper edge part of the front door glass 3. Further, a tongue piece 11 is spanned between the upper ends of the thin section part 8 and the mounting base part 4, and the upper surface of the tongue piece is formed to a plane part 12 extended from the upper end of the thin section part 8 in the direction of the outside of a car.

0) JP4278826A – SEAL STRUCTURE OF CENTER PILLAR PART OF SASHLES...

57) Family number: 8133330 (JP4278826A) © PatBase

Title: SEAL STRUCTURE OF CENTER PILLAR PART OF SASHLESS DOOR TYPE AUTOMOBILE

Priority: JP19910063899 19910305

Family:

Publication number	Publication date	Application number	Application date
JP4278826 A2	19921005	JP19910063899	19910305

Probable Assignee: TOKAI KOGYO CO LTD

Assignee(s):(std)**:** TOKAI KOGYO CO LTD

Assignee(s): TOKAI KOGYO KK

Inventor(s):(std)**:** HACHISUGA TAKAO

International class (IPC 8–9)**:** B60J10/04 B60R13/06 E06B7/23 (Advanced/Invention); B60J10/02 B60R13/06 E06B7/22 (Core/Invention)

International class (IPC 1–7)**:** B60J10/04 B60R13/06 E06B7/23

Classification Explorer

Forward Citations: US8793938, US8650802, US8646215, US8572898, US8561354, RU2602847,

Abstract:
Source: JP4278826A PURPOSE:To enlarge width inside of a car room, and design width of a center pillar itself narrow without lowering rigidity of the center pillar, and while make a sealing material to be provided in the center pillar part compact to make the sealing material of that part inconspicuous in a sashless door type automobile. CONSTITUTION:A fitting part 4a having U–shape cross section and formed in a base end of a sealing material 4 is fitted to a front edge of a rear door glass 3b, and an elastic contact part 4b formed in the tip of the sealing material 4 is made elastically contact to the back surface of a rear edge of a front door glass 3b. Since thickness of the sealing material 4 (TS) can be made small, in the case that shape of cross section of the center pillar 2 is left as it is, the center pillar 2 can be provided outside of a car by a quantity of reduction of thickness of the sealing material to enlarge width of a car room. In the case that thickness of the center pillar 2 (TP) is reduced by a quantity of reduction of thickness of the sealing material 4, width of the center pillar (WP) can be reduced, and width of the center pillar 2 is thereby reduced without lowering rigidity to make the sealing material inconspicuous.

0) DE4125299A1 – VEHICLE DOOR REINFORCEMENT SYSTEM – MOVES OUTSI...

58) Family number: 10407829 (DE4125299A1) © PatBase

Title: Vehicle door reinforcement system – moves outside door under external force to engage with posts and threshold

Priority: DE19914125299 19910731

Family:

Publication number	Publication date	Application number	Application date
DE4125299 A1	19930204	DE19914125299	19910731
DE4125299 C2	19960905	DE19914125299	19910731

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Assignee(s): BAYERISCHE MOTOREN WERKE AG 8000 MUENCHEN DE ; BAYERISCHE MOTOREN WERKE AG 80809 MUENCHEN DE

Inventor(s):(std)**:** ALTMANN OTTO

Inventor(s): ALTMANN OTTO 8011 KIRCHSEEON DE

International class (IPC 8–9)**:** B60J5/04 (Advanced/Invention)

International class (IPC 1–7)**:** B60J5/04 B60R21/02

CPC: B60J5/0437 B60J5/0447

European class: B60J5/04E2C B60J5/04E2D4D

Classification Explorer

Cited documents: DE4032992 A1, DE3131778 A1, DE2414114 A1, DE2215674 B1,

Forward Citations: WO9528295, WO06122725, WO05102752, WO0144679, US7905517, US7735901, US7610984, US7547062, US5895088, US5429410, FR2989636, FR2955055, EP1692033, EP1663683, DE4342038, DE202010003756, DE19633637, DE112007000020, DE10357311, DE10341329, DE10341329, DE102015208779, DE102007044276, DE102007044276, DE102005041079, DE102005011162, DE102004020471,

Abstract:
Source: DE4125299A1 The motor–vehicle door is accommodated between vertical posts joined by a threshold running in the lengthwise direction. Between the external sheet–metal and the internal cladding is an energy absorbing reinforcing system. Under external force, one end at least of the reinforcing system moves outside the door, so as to engage in a post and/or the threshold. This end can be guided in the door edge, being normally roughly flush with it. In the initial position it can be arched towards the outside of the door, working in guides at the front and rear edges. It can be of fibre–reinforced plastic, with glass fibres at the convex side, carbon–fibres at the concave side, and Kevlar fibres in between. ADVANTAGE – Positive transmission of energy to vehicle structure on side collision.

0) DE4203364A1 – SIDE WINDOW FOR VEHICLE HAVING NO B–POST – USES...

59) Family number: 10709969 (DE4203364A1) © PatBase

Title: SIDE WINDOW FOR VEHICLE HAVING NO B–POST – USES HOLDER ON REAR WINDOW PANE TO CARRY SEAL FOR LEADING WINDOW PANE

Priority: DE19924203364 19920206

Family:

Publication number	Publication date	Application number	Application date
DE4203364 A1	19930812	DE19924203364	19920206
DE4203364 C2	19931223	DE19924203364	19920206

Probable Assignee: DAIMLER BENZ AG

Assignee(s):(std)**:** DAIMLER BENZ AG

Assignee(s): MERCEDES BENZ 7000 STUTTGART DE AG ; MERCEDES BENZ 70327 STUTTGART DE AG ; MERCEDES BENZ AKTIENGESELLSCHAFT 7000 STUTTGART DE ; MERCEDES BENZ AKTIENGESELLSCHAFT 70327 STUTTGART D ; MERCEDES BENZ AKTIENGESELLSCHAFT 70327 STUTTGART DE

Inventor(s):(std)**:** HUBER PETER

Inventor(s): HUBER PETER 6725 ROEMERBERG DE

International class(IPC 8–9)**:** B60J1/00 B60J1/17 B60J10/00 B60J10/04 (Advanced/Invention); B60J1/00 B60J1/17 B60J10/00 B60J10/02 (Core/Invention)

International class(IPC 1–7)**:** B60J1/17 B60J10/04 E06B7/16

CPC: B60J1/001 B60J1/17 B60J10/30 B60J10/70 B60J10/74

European class: B60J1/00B B60J1/17 B60J10/00G B60J10/02 B60J10/04

Classification Explorer

Cited documents: DE1140471 B,

Forward Citations: WO06024427, US8171682, US8146645, US7866727, US6976727, EP1781483, EP1415832, DE29712859, DE202014106202, DE19711368, DE102004041741, DE10055897,

Abstract:
Source: DE4203364A1 The side window is for a vehicle such as a coupe or cabriolet not having a B–post. It consists of a lowerable, frameless driver's window pane (2), where the rear pane is fitted with a strip to hold a sealing profile for the driver's pane. The strip is in two parts. There is a holding part (3) attached to the rear pane, and an adjustably held sliding strip (4) to which the sealing profile (5) is fitted. USE/ADVANTAGE – The arrangement allows a simple adjustment of the seal to accommodate tolerance differences in the gap between the two panes.

0) US5527583A – STRUCTURE FOR ATTACHMENT OF WEATHER STRIP

60) Family number: 10450748 (US5527583A) © PatBase

Title: STRUCTURE FOR ATTACHMENT OF WEATHER STRIP

Priority: JP19930343865 19931216 JP19940114520 19940428 JP19940114596 19940430 JP19940159264 19940617 JP19940114598 19940430 JP19940200237 19940802 JP19940234303 19940902 JP19940252846 19940921 JP19990229878 19990816

Family:

Publication number	Publication date	Application number	Application date
DE69410413 D1	19980625	DE19946010413	19941214
DE69410413 T2	19990218	DE19946010413T	19941214
EP0658455 A1	19950621	EP19940119778	19941214
EP0658455 B1	19980520	EP19940119778	19941214
JP2000052782 A2	20000222	JP19990229878	19990816
JP3166480 B2	20010514	JP19940114520	19940428
JP3214493 B2	20011002	JP19990229878	19990816
JP3365083 B2	20030108	JP19940234303	19940902
JP7291056 A2	19951107	JP19940114520	19940428
JP7300049 A2	19951114	JP19940114596	19940430
JP7300051 A2	19951114	JP19940114598	19940430
JP8058488 A2	19960305	JP19940234303	19940902
JP8099537 A2	19960416	JP19940252846	19940921
US5527583 A	19960618	US19940357925	19941216

Probable Assignee: TOYODA GOSEI CO LTD

Assignee(s):(std): TOYODA GOSEI KK

Assignee(s): TOYODA GOSEI CO ; TOYODA GOSEI CO LTD ; TOYODA GOSEI CO LTD HARUHI AICHI JP

Inventor(s):(std): NOZAKI MASAHIRO ; HIKOSAKA ATSUSHI ; NOZAKI MASAHIRO C O TOYODA GOS ; HIKOSAKA ATSUSHI C O TOYODA GO

Inventor(s): HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO... ; HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO PLANT N ; HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO PLANT ; HIKOSAKA ATSUSHI C O TOYODA GOSEI HEIWACHO PLANT NAKASHIMA GUN AICHI KEN 490 13 JP ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHO PLANT ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHOPLANT NAKASHIMA GUN AICHI KEN 490 13 JP ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHOPLANT... ; NOZAKI MASAHIRO C O TOYODA GOSEI HEIWACHOPLANT NAK

Designated states: DE FR GB

International class (IPC 8–9): B60J10/00 B60J10/04 B60J10/06 B60R13/06 (Advanced/Invention); B60J10/00 B60J10/02 B60R13/06 (Core/Invention)

International class (IPC 1–7): B60J10/00 B60J10/02 B60J10/04 B60R13/06

CPC: Y10T428/24008 Y10T428/24959 Y10T428/24967 Y10T428/24983 B60J10/35 B60J10/84 B60J10/16 B60J10/248 B60J10/79

European class: B60J10/00C2 B60J10/00D3 B60J10/00D5E B60J10/00G2B B60J10/06 B60J10/08B

US class: 296/146.9 296/93 428/214 428/215 428/217 428/31 428/99 49/475.1

Classification Explorer

Cited documents: US5356194 A, US5304409 A, US5154952 A, US5149169 A, JP64068218 A2, JP6115354, JP5089104 U, JP4081816 U, JP3129543 U, JP3060144 U, JP1112110 A2, EP0357973 A1, EP0233552 A1, EP0111738 A2,

Forward Citations: WO11009116, WO0121425, US9616734, US8979164, US8176681, US8075042, US7581354, US7350849, US7293820, US7121046, US7083222, US7083222,

US6946194, US6938378, US6883847, US6860067, US6848218, US6811194, US6810624, US6748702, US6644718, US6623067, US6617015, US6539671, US6453618, US6439641, US6286841, US6143397, US6012760, US6007140, US5848819, US5791722, US2016250912, US2012139191, US2012023831, US2010207424, US2009071077, US2009064592, US2009001754, US2006265995, US2006138801, US2005235573, US2005189783, US2005074604, US2005057058, US2004255520, US2004018339, US2004010976, US2003121210, JP7329579, JP6101211, JP4032250, JP3829664, JP3794386, JP3331876, JP2985668, JP2016107854, JP2014504993, JP2007168552, JP2006298075, JP2004516341, JP2004359068, JP2003054329, JP10053026, EP1419919, DE29916383, DE19716395, DE19716395, DE102009009722, DE102007011918,

Abstract:
Source: US5527583A A structure for attachment of a weather strip to an opening of a vehicle body, which is opened and closed by a closing member. A base portion of the weather strip is bonded with two double−sided adhesive tapes to the vehicle body in the longitudinal direction thereof. The outer double−sided adhesive tape has thickness greater than that of the inner double−sided adhesive tape, and the material of the outer double−sided adhesive tape is softer than that of the inner double−sided adhesive tape.

0) US5806914A – WEATHER STRIP OF MOTOR VEHICLE

61) Family number: 11142618 (US5806914A) © PatBase

Title: WEATHER STRIP OF MOTOR VEHICLE

Priority: JP19940113528 19940429 JP19940212935 19940906 US19970831751 19970401 US19950427600 19950424

Family:

Publication number	Publication date	Application number	Application date
AU199517745 A1	19951116	AU19950017745	19950427
AU667655 B2	19960328	AU19950017745	19950427
JP3329085 B2	20020930	JP19940212935	19940906
JP8011549 A2	19960116	JP19940212935	19940906
US5806914 A	19980915	US19970831751	19970401

Probable Assignee: TOYODA GOSEI KK

Assignee(s):(std)**:** TOYODA GOSEI KK

Assignee(s): TOYODA GOSEI CO ; TOYODA GOSEI CO LTD

Inventor(s):(std)**:** OKADA MASAYASU

Inventor(s): MASAYASU OKADA

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

International class (IPC 8–9)**:** B60J10/00 B60J10/02 B60J10/04 B60J10/06 B60J10/08 B60R13/06 (Advanced/Invention)

International class (IPC 1–7)**:** B60J10/02 B60J10/04 B60J10/08 B60J5/04 B60R13/06

CPC: B60J10/79 B60J10/16 B60J10/248 B60J10/277 B60J10/74 B60J10/77 B60J10/7775

European class: B60J10/00C2 B60J10/00D5E B60J10/00D9D B60J10/04 B60J10/04E B60J10/04E4E B60J10/06

US class: 296/146.9 49/495.1 49/498.1

Classification Explorer

Cited documents: US5375376 A, US5356194 A, JP6135236 A2, JP60189419 A2, JP60064049 A2, JP3178831 A2, JP3000522 A2, FR794152 A, DE3411559 A1, DE3322510 A1, AU6003090 A1, AU1777095 A1,

Forward Citations: US9475373, US9027284, US8979164, US8898958, US8646212, US8176681, US7350849, US7243983, US7083222, US7083222, US6938378, US6832451, US6722746, US6684575, US6644718, US6536852, US6158171, US5970659, US2016144698, US2015251527, US2012159860, US2009001754, US2006186705, US2005279027, US2005235573, US2005189783, US2003177701, JP6192328, JP3393129, JP2014184843, JP2003081026, EP2923871, EP2008851, EP1932748, EP1325827, EP0885778, CN104960404, CN104960404,

Abstract:
Source: US5806914A A door weather strip comprises a mounting base, a sealing section consisting of a first sealing wall, a second sealing wall, and a lip, a vehicle outer side, and a vehicle inner side wall, and has a hollow portion being surrounded and defined by the sealing section, the vehicle outer side wall and the vehicle inner side wall. Then, the bridging section connecting the second sealing wall and the lip is formed near the hollow portion with a recess which forms a thin wall portion as a bending portion for the lip to easily turn back. Accordingly, when the door glass is fully closed, the distal end of the lip turns back to strongly press the inner side surface of the door glass so that high tightness performance can be obtained and the door glass is firmly supported.

0) US5735081A – SIDE DOOR FOR AUTOMOBILE

62) Family number: 10734851 (US5735081A) © PatBase

Title: SIDE DOOR FOR AUTOMOBILE

Priority: JP19940150329 19940608 US19950435390 19950505 US19960748276 19961113

Family:

Publication number	Publication date	Application number	Application date
DE19517756 A1	19951214	DE19951017756	19950515
DE19517756 B4	20051229	DE19951017756	19950515
JP7329572 A2	19951219	JP19940150329	19940608
US5735081 A	19980407	US19960748276	19961113

Probable Assignee: SANKEI GIKEN KOGYO KK

Assignee(s):(std)**:** SANKEI GIKEN KOGYO KK

Assignee(s): SHIMIZU TAKUJI ; YAMANAKA TAKASHI ; SANKEI GIKEN KOGYO K K ; SANKEI GIKEN KOGYO K K TOKIO TOKYO ; SANKEI GIKEN KOGYO K K TOKIO TOKYO JP

Inventor(s):(std)**:** SHIMIZU TAKUJI ; SHIMIZU TAKUSHI ; YAMANAKA TAKASHI

Inventor(s): YAMANAKA TAKASHI KITASAITAMA GUN SAITAMA JP ; SHIMIZU TAKUJI KODAMA GUN SAUTAMA JP

International class (IPC 8–9): B60J10/00 B60J10/04 B60J10/08 B60J5/04 (Advanced/Invention)

International class (IPC 1–7): B23P13/00 B60J10/04 B60J5/00 B60J5/04 E06B3/00

CPC: Y10T29/49622 B60J5/0402 B60J10/21 B60J10/248 B60J10/76 B60J10/86

European class: B60J10/00D1 B60J10/00D5E B60J10/04D B60J10/08C B60J5/04B2

US class: 29/897.2 49/502 49/506

Classification Explorer

Cited documents: US5577796 A, US5355629 A, US5275455 A, US5107624 A, US4945682 A, US4811517 A, US4648208 A, US4509293 A, JP6032139 U1, JP5270265 A2, EP0437188 A1,

Forward Citations: US9656538, US9085220, US8985673, US8544211, US7900993, US7891137, US7390049, US6811194, US6364397, US6016630, US6007140, US5953809, US2016167491, US2014217772, US2014159431, US2014137480, US2009195013, US2009115220, US2005066584, US2004244298, US2003177702, JP8164742, JP5908804, JP3614487, JP2014019221, JP2013095341, JP2012111285, JP2009248645, EP1149719, EP0788913, DE19938863, DE102010054204,

Abstract:
Source: US5735081A The present invention is directed to provide an improved structure of a sash of the side door for automobiles, wherein rigidity of the door sash, hence rigidity of the side door as a whole, is augmented without increase in weight of the door sash, and without causing hindrance to the surrounding view. Such structure is realized by the box–shaped transverse sectional part (45) provided over the entire length of the door sash (4, 4A, 4B, 4C), of which the size (w) in the breadthwise direction of the vehicle is gradually changed, thereby progressively reducing thickness (W) of the door sash (4, 4A, 4B, 4C) in the breadthwise direction of the vehicle.

0) EP0799736A1 – SEALING AND GUIDING STRIPS AND SAFETY SYSTEMS F...

63) Family number: 11036923 (EP0799736A1) © PatBase

Title: SEALING AND GUIDING STRIPS AND SAFETY SYSTEMS FOR POWER–DRIVEN WINDOWS

Priority: GB19960006893 19960401

Family:

Publication number	Publication date	Application number	Application date
CZ9700962 A3	19971015	CZ19970000962	19970328
EP0799736 A1	19971008	EP19970302058	19970326
GB2311798 A1	19971008	GB19960006893	19960401
GB9606893 A0	19960605	GB19960006893	19960401

Probable Assignee: DRAFTEX IND LTD

Assignee(s):(std)**:** DRAFTEX IND LTD

Assignee(s): DRAFTEX INDUSTRIES LIMITED

Inventor(s):(std)**:** STOCKSCHLAGER ALFONS ; STOCKSCHLAEGER ALFONS ; HELLER NORBERT

Inventor(s): ALFONS STOCKSCHLAGER ; NORBERT HELLER

Designated states: DE ES FR IT

International class (IPC 8–9)**:** B60J1/17 B60J10/00 B60J10/04 B60J10/08 (Advanced/Invention); H02H7/085 (Advanced/Non–invention); B60J1/17 B60J10/00 B60J10/02 (Core/Invention); H02H7/085 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/16 B60J1/17 B60J10/00 B60J10/04 E05F15/00 F16P3/12

CPC: B60J10/22 B60J10/24 B60J10/277 B60J10/76 B60J10/86 B60J10/00 H02H7/0851

European class: B60J10/00 B60J10/00D2 B60J10/00D5 B60J10/00D9D B60J10/04D B60J10/08C T02H7/085B

Classification Explorer

Cited documents: WO9502268 A1, US5483133 A, JP59038124, EP0648628 A1, EP0640740 A1, EP0178064 A2, EP0171821 A1, EP0153756 A2, DE29507970 U1,

Forward Citations: US4611012,

Abstract:
Source: EP0799736A1 A window channel (34) for a power–driven window glass in a motor vehicle body has lip portions (46,48) extending across its mouth, one of the lip portions (46) making initial contact with the rising window glass. Along part of the window frame, such as along a slanting part corresponding to the A–pillar of the vehicle, the lip (46) is provided with a groove (70) which increases the flexibility of the lip (46) so that it applies substantially no reactive force to the rising window glass (10). Along another part, such as the substantially horizontal top part of the frame, the lip (46) is provided with no such groove. It therefore provides a reactive force to the rising window glass (10) which increases to a peak value as the lip hinges into the channel, and then falls abruptly from this peak value. A safety system monitors the current in an electric motor raising the window glass. When this current is detected to rise to a peak corresponding to the peak value of the force, and then to fall, this indicates that the glass has entered the window channel and can be safely driven into the closed position. However, if the safety system previously detects that the current has risen to a level corresponding to a force exceeding the predetermined value, this is indicative of an obstruction and the window glass is stopped and reversed.

0) US6095591A – INTERIOR MATERIAL FOR AUTOMOTIVE VEHICLE

64) Family number: 15742115 (US6095591A) © PatBase

Title: Interior material for automotive vehicle

Priority: GB19970022118 19971020 JP19960283894 19961025 US20000610866 20000706 JP19960309832 19961121 US19970956704 19971024

Family:

Publication number	Publication date	Application number	Application date
DE19747107 A1	19980430	DE19971047107	19971024
DE19747107 C2	20020516	DE19971047107	19971024
GB200101963 A0	20010314	GB20010001963	19971020
GB2318551 A1	19980429	GB19970022118	19971020
GB2318551 B2	20010418	GB19970022118	19971020
GB2355438 A1	20010425	GB20010001963	19971020
GB2355438 B2	20010606	GB20010001963	19971020
GB9722118 A0	19971217	GB19970022118	19971020
JP10129376 A2	19980519	JP19960283894	19961025
JP10152005 A2	19980609	JP19960309832	19961121
JP3437725 B2	20030818	JP19960283894	19961025
JP3469409 B2	20031125	JP19960309832	19961121
US6095591 A	20000801	US19970956704	19971024
US6309011 BA	20011030	US20000610866	20000706

Probable Assignee: NISSAN MOTOR

Assignee(s):(std)**:** NIHON PLAST COMPANY LTD ; NISSAN MOTOR ; NIHON PLAST CO LTD

Assignee(s): NIHON PLAST CO LTD FUJI SHIZUOKA JP ; NIHON PLAST COMPANY LIMITED ; NIHON PLAST CO ; NISSAN MOTOR COMPANY LIMITED ; NIPPON PLAST CO LTD ; NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN MOTOR CO LTD YOKOHAMA KANAGAWA JP

Inventor(s):(std)**:** ICHIKAWA SATOSHI ; KAWAI AKIRA ; ICHIKAWA SATORU ; KOMATSU MOTOI ; KOMATSU MOTORU ; MATSUYAMA KAZUO ; YOSHIKAWA SATORU ; YOSHIKAWA SATOSHI

Inventor(s): AKIRA KAWAI ; YOSHIKAWA SATORU ZAMA KANAGAWA JP ; MATSUYAMA KAZUO FUJI SHIZUOKA JP ; MOTORU KOMATSU ; SATORU ICHIKAWA ; SATORU YOSHIKAWA ; KOMATSU MOTORU SAGAMIHARA KANAGAWA JP ; ICHIKAWA SATORU YOKOSUKA KANAGAWA JP ; KAWAI AKIRA MINAMIASHIGARA KANAGAWA JP ; KAZUO MATSUYAMA

Agent(s): SUGIMURA KOSAKU

International class (IPC 8–9): B60R13/02 B60R21/04 (Advanced/Invention); B60R13/06 (Advanced/Non–invention); B60R13/02 B60R21/04 (Core/Invention)

International class (IPC 1–7): B60J7/00 B60R13/02 B60R21/00 B60R21/04 B60R27/00

CPC: B60R13/0206 B60R13/025 B60R13/06 B60R2013/0287 B60R21/04 B60R2021/0414 B60R2021/0435

European class: B60R13/02B B60R13/02D4 B60R21/04 L60R13/02R L60R13/06 L60R21/04C L60R21/04P

US class: 188/376 280/748 296/187.05 296/188 296/189 296/203.03 296/39.1 296/391

Classification Explorer

Cited documents: US6059342 A, US6050631 A, US6049952 A, US6042176 A, US6036227 A, US5938273 A, US5927786 A, US5868458 A, US5836641 A, US5833303 A, US5826907 A, US5779271 A, US5779270 A, US5741044 A, US5660426 A, US5641195 A, US5609385 A, US5580116 A, US5575500 A, US5564744 A, US5560672 A, US5549327 A, US5382051 A, US5040646 A, JP885339, JP8142784, JP8132874, JP8085339,

JP7277117, JP7205730, JP7002029 A2, JP6239189 A2, GB2314049 A1, GB2308340 A1, GB2304648 A1, EP0753432 A1, DE4329406 A1, DE19505935 A1,

Forward Citations: WO10100359, WO04041498, WO04041498, WO02070304, US9700292, US9129054, US8419112, US8132847, US7954885, US7854094, US7722113, US7445269, US7159931, US6832800, US6811194, US6739624, US6305736, US2011163564, US2009243341, US2009218850, US2008296933, US2008224501, US2008143144, US2006059799, US2005189787, US2004160078, US2004131804, RU2517045, JP5123898, JP2011000919, FR2942756, EP1712428, EP1712428, EP1043214, EP1043214, EP0995640, EP0995640, EP0957004, EP0957004, CN103935307, CN102341271, CN102341271,

Abstract:
Source: US6095591A A front pillar garnish adapted to cover a front pillar disposed between a front windshield and a side door in an automotive vehicle. The front pillar garnish comprises a main body section formed of plastic and generally channel−shaped. The main body section is to be fixedly connected to the front pillar and located at the side of a passenger compartment. A plurality of generally plate−shaped energy absorbing ribs are integrally formed at the inner surface of the main body section in a manner to be generally perpendicular to the longitudinal axis of the main body section. A plurality of bosses are integrally formed extending from the inner surface of the main body section. A clip supporting member is fixedly secured to the tip end sections of the bosses and fixedly supported on the edges of the energy absorbing ribs. A clip formed of a spring material is fixedly mounted on the clip supporting member and fixable to the front pillar in order to install the front pillar garnish to the vehicle body.

0) US5791723A – BUMPER WEDGE FOR AUTOMOTIVE VEHICLE SLIDING DOO...

65) Family number: 11040466 (US5791723A) © PatBase

Title: BUMPER WEDGE FOR AUTOMOTIVE VEHICLE SLIDING DOOR

Priority: US19970784887 19970116

Family:

Publication number	Publication date	Application number	Application date
DE19755740 A1	19980723	DE19971055740	19971216
DE19755740 C2	20000120	DE19971055740	19971216
GB2321269 A1	19980722	GB19970027535	19971230
GB2321269 B2	20000913	GB19970027535	19971230
GB9727535 A0	19980225	GB19970027535	19971230
JP10226236 A2	19980825	JP19980006913	19980116
US5791723 A	19980811	US19970784887	19970116

Probable Assignee: VISTEON GLOBAL TECHNOLOGIES INC

Assignee(s):(std): FORD MOTOR CO

Assignee(s): FORD MOTOR CO DEARBORN ; FORD MOTOR CO DEARBORN MICH US ; FORD MOTOR COMPANY ; VISTEON GLOBAL TECHNOLOGIES INC

Inventor(s):(std): SINGH RAJINDER PAT ; SINGH RAJINDER PAL ; SHIPMAN ROGER A ; VARNEY CHARLES LINCOLN ; HAGERMAN JAMES MARIO ; BELL MARY TERESA

Inventor(s): CHARLES LINCOLN VARNEY ; BELL MARY TERESA MONROE MICH ; SINGH RAJINDER PAL CANTON MICH ; ROGER A SHIPMAN ; RAJINDER PAL SINGH ; MARY TERESA BELL ; JAMES MARIO HAGERMAN ; HAGERMAN JAMES MARIO NORTHVILLE MICH ; SINGH RAJINDER PAL CANTON MICH US ; SHIPMAN ROGER A WEST BLOOMFIELD MICH US ; HAGERMAN JAMES MARIO NORTHVILLE MICH US ; BELL MARY TERESA MONROE MICH US ; VARNEY CHARLES LINCOLN GROSSE ILE MICH ; RAJINDER PAT SINGH ; VARNEY CHARLES LINCOLN GROSSE ILE MICH US

International class (IPC 8–9): B60J5/06 E05F5/00 F16B5/12 (Advanced/Invention); E05F7/00 E05F7/04 (Advanced/Non–invention); B60J5/06 E05F5/00 F16B5/12 (Core/Invention); E05F7/00 (Core/Non–invention)

International class (IPC 1–7): B60J5/00 B60J5/06 E05B65/20 E05F15/02 E05F5/00 F16B5/12

CPC: Y10T16/629 B60J5/06 E05F5/003 E05F7/005 E05F7/04 E05Y2900/531

European class: B60J5/06 E05F5/00A P05F7/00C P05F7/04 P05Y900/531

US class: 16/86.00B 16/86B 296/146.9 296/155 49/483.1

Classification Explorer

Cited documents: US5626384 A, US5606771 A, US5577795 A, US5492349 A, US5433031 A, US4984842 A, US4692960 A, US4603363 A, US4192039 A, US3819228 A, US3359030 A, US2596780 A, US2014280 A, US1884827 A, US1683793 A, JP57147923 A2, JP5254461 A2, JP2063291 A2, GB2261011 A1, GB2075117 A1, GB1091332 A, FR2478718 A1, DE1224167 B,

Forward Citations: WO16164352, WO10134979, WO09024261, WO08025827, WO06002799, WO0015937, US8740254, US8607505, US8371640, US8328269, US8322762, US8235453, US7681281, US7669914, US7607719, US7566081, US7547060, US7527321, US7308731, US7014258, US6676201, US6601345, US6494520, US6401396, US6207911, US6206455, US2017241167, US2014338167, US2014117705, US2012193938, US2012023830, US2011210576, US2011154741, US2011131883, US2010219648, US2010154308, US2008203759, US2008122257, US2007273174, US2007234527, US2006280574, US2006200939, US2006097550, US2005253398, US2005060867, US2003194181, KR100772059, JP5998606, JP5783381, JP2014020015, JP2013220801, GB2464255, GB2464255, FR2996171, FR2923518, FR2817276, EP2060718, EP1712387, EP1209311, EP1114232, DE102007051718, DE102007039803, DE102007017424, DE102004050534, CN104670340, CN101856965, CN101856965,

Abstract:
Source: US5791723A In an automotive vehicle having a body opening closable by a sliding door, a door bumper wedge for restraining longitudinal and lateral movement of the sliding door has a wedge member attached to a door mating surface of the body opening, a receptacle member attached on a body mating edge of the sliding door defining a receptacle pocket, a pair of flexible, opposed prongs extending from the receptacle member a predetermined distance into the receptacle pocket, and a bumper member positioned within the receptacle pocket. The bumper member has a base portion, a pair of opposed arms extending from the base portion, each of the pair of arms positioned between one of the pair of prongs and a surface of the receptacle pocket, and a trough, defined by the pair of arms and the base portion, for receiving the wedge member therein when the sliding door is moved to a closed position, the wedge member restraining generally longitudinal movement of the sliding door by impacting the base portion, the pair of prongs and the pair of arms absorbing energy from the wedge member and limiting sliding door movement in a generally lateral direction when the sliding door is in the closed position by restraining relative movement between the wedge member and the receptacle member. An adjustment bracket is attached to an inner surface of the body pillar on an opposite side of the door mating surface for attaching the wedge plate to the door mating surface. The adjustment bracket adjustable to accommodate tolerance variation between the receptacle member and the wedge member upon first closure of the sliding door.

0) KR19980036331U – SEALING STRUCTURE OF THE VEHICLE DOOR HARDTOP A...

66) Family number: 48056238 (KR19980036331U) © PatBase

Title: Sealing structure of the vehicle door hardtop Assembly (Machine translation)

Priority: KR19960049330U 19961214

Family:

Publication number	Publication date	Application number	Application date
KR19980036331 U	19980915	KR19960049330U	19961214

Probable Assignee: KIA MOTORS CORP

Assignee(s):(std)**:** KIA MOTORS CORP

Assignee(s): AND GT I PERCENT PERCENT AND GT I PERCENT PERCENT

International class (IPC 8–9): B60J10/08 (Advanced/Non–invention)

International class (IPC 1–7): B60J10/08

Classification Explorer

Abstract:
Source: KR19980036331U The subject innovation is not to be easily bent from the mounting portion, and thus can be excluded that a risk of damage, there is a vehicle door assembly–in order to provide a sealing structure of the coupé there is no pillar, i.e., a solid metal, or a resin having the roof panel is applied to a vehicle chassis (not–door assembly (2), the sealing structure is molded rubber material, but the roof panel by bolts 16 fastened to the end portion of the outer panel; a mounting portion (26) mounting portion 26, mounting portion 26 forming the skeleton of the rotor core 24 and rotor core 24 formed buried wrapped; the flash–shape of the mounting portion 26 of the buried side end portion extended from, or molded into the combined state again the upper end of the door glass (6) is watertight state. Close that the watertight portion 28 and the inner panel to the roof panel; the foregoing disposed toward the interior roof trim the tip 30 of the mounting portion 26 so as to constrain the extension 32 extends from the end forming a watertight unit 28 in the interior of the mounting portion 26 of the rotor core 24 and rotor core 38 so as to extend bent embedded in the) it is composed of a structure comprising a.

0) US6226953B – WEATHER STRIP RETAINER WITH DRIP MOLDING AND ME...

67) Family number: 11926603 (US6226953B) © PatBase

Title: WEATHER STRIP RETAINER WITH DRIP MOLDING AND METHOD FOR PRODUCING THE SAME

Priority: JP19970099012 19970416

Family:

Publication number	Publication date	Application number	Application date
JP10287136 A2	19981027	JP19970099012	19970416
JP3538295 B2	20040614	JP19970099012	19970416
US6226953 BA	20010508	US19980058807	19980409

Probable Assignee: KATAYAMA KOGYO CO LTD

Assignee(s):(std)**:** KATAYAMA KOGYO CO LTD ; MITSUBISHI MOTORS CORP

Assignee(s): MITSUBISHI JIDOSHA KOGYO KK ; KATAYAMA KOGYO CO ; MITSUBISHI JIDOSHA KOGYO (AKA MITSUBISHI MOTORS CORPORATION) KK ; MITSUBISHI JIDOSHA KOGYO AKA MITSUBISHI MOTORS CORPORATION KK ; MITSUBISHI JIDOSHA KOGYO KABUSHIKI KAISHA

Inventor(s):(std)**:** ISHIHARA KATSUHISA ; ISHIHARA KATSUNAO ; OHASHI KAZUMASA ; UNO AKIHIRO

International class (IPC 8–9)**:** B29D99/00 B60J10/00 B60J10/04 B60J10/08 B60R13/06 B60R13/07 (Advanced/Invention); B29D99/00 B60J10/00 B60J10/02 B60R13/00 B60R13/06 (Core/Invention)

International class (IPC 1–7)**:** B29D31/00 B60J10/04 B60J10/08 B60J5/00 B60R13/06 B60R13/07 E04C2/38

CPC: B60J10/74 B60J10/80 B60J10/00 B60R13/07

European class: B60J10/00 B60J10/04 B60J10/08 B60R13/07

US class: 52/716.1 52/716.5 52/716.6 52/717.06

Classification Explorer

Cited documents: US5056850 A, US5050349 A, US5035937 A, US4959081 A, JP8058391 A2,

Forward Citations: WO05100728, WO05100728, US8979164, US8776475, US7374227, US7350849, US6736353, US2015251527, US2013031865, US2012297726, US2008129080, US2005235573, KR101204656, JP5020810, JP2007532804, EP1751389, EP1751389,

Abstract:
Source: US6226953B A weather strip retainer includes a first pillar mount section, a roof mount section, a center pillar mount section, and a drip molding integrally formed on the front pillar mount section and the roof mount section. The roof mount section and the center pillar mount section extends continuously. The center pillar mount section is oriented in a generally vertical direction by bending a boundary zone portion between the roof mount section and the center pillar mount section.

0) US5853857A – WINDSHIELD FRAME

68) Family number: 11353255 (US5853857A) © PatBase

Title: WINDSHIELD FRAME

Priority: US19970803223 19970220

Family:

Publication number	Publication date	Application number	Application date
US5853857 A	19981229	US19970803223	19970220

Probable Assignee: BUDD CO

Assignee(s):(std)**:** BUDD CO ; CHRYSLER CORP

Assignee(s): WELLS FARGO CAPITAL FINANCE LLC

Inventor(s):(std)**:** ABOUZAHR SAAD M ; EHRHARDT STUART A ; KAROLSKI DENNIS G ; MAHMOOD MOHAMMED ; SHINEDLING MICHAEL M

International class (IPC 8–9): B29C65/00 B29C70/46 B29C70/86 B60J1/02 B60J10/02 (Advanced/Invention); B29C65/48 (Advanced/Non–invention); B29C65/00 B29C70/00 B29C70/04 B60J1/02 B60J10/02 (Core/Invention); B29C65/48 (Core/Non–invention)

International class (IPC 1–7): B28B5/00 B29C47/00 B32B1/00

CPC: B62D25/04 B62D29/043 B60J1/02 B29C66/721 B29C70/46 B29C70/86 B29C65/48 B29C65/483 B29C65/485 B29C66/5346 Y10T428/192 Y10T428/24198 Y10T428/24562 Y10T428/24612 Y10T428/24661 Y10T428/24744 B29C66/7212 B29C66/72141 B60J10/70 B29C66/71 B29C66/61 B29C66/1222 B29C66/1226 B29C66/12443 B29C66/12469

European class: B29C66/721 B29C70/46 B29C70/86 B60J1/02 B60J10/02 L29C65/48

US class: 156/242 156/244.22 156/304.2 264/241 264/319 296/201 296/96.21 428/122 428/166 428/172 428/178 428/188 428/58

Classification Explorer

Cited documents: US5618593 A, US5344038 A, US5130071 A, US5076632 A, US5000990 A, US4943102 A, US4911876 A, US4863771 A, US4855097 A, US4848147 A, US4612149 A, US4606571 A, US4373745 A, US4151620 A, US4146263 A, US3843982 A, US3829153 A, US3526426 A, US3295813 A, US3222769 A, US3158395 A, US3121924 A, US3093845 A,

Forward Citations: WO14147388, WO09111546, USD662869, USD638033, US9694565, US8976541, US8526311, US8489543, US8303337, US8254734, US8132329, US8111145, US7941798, US7856158, US7185946, US7008006, US6729676, US6286683, US2015225617, US2010090500, US2010082277, US2009277707, US2009274416, US2009273208, US2009224895, US2009223437, US2009199386, US2009070755, US2007236049, US2007143747, US2005035609, US2004094976, GB2526733, GB2526733, EP1375311, DE10229400, DE102007025633, DE102007025632, DE102007025631,

Abstract:
Source: US5853857A The present invention provides a windshield frame utilizing composite technology. More particularly, the windshield frame preferably comprises a fiber reinforced plastic molded upper frame section bonded with a structural grade adhesive to a fiber reinforced plastic molded lower frame section. According to the invention, steel reinforcements and tapping plates are bonded on or molded into the frame sections to stabilize the structure and provide hardware attachment points. Continuous carbon fibers may also be molded in the frame sections in critical high stress areas. The strength of the bonding between the frame sections is enhanced by a tongue and groove geometry along the interface. In addition, dowel pins and bushings are used to mechanically tie the frame sections together near body side attachment points. The frame sections also define a hollow section therebetween to maximize structural efficiency, provide a conduit for electrical wires and offer a platform for visors, mirrors, seals, and other hardware.

0) KR19990004755U – CAR BODY WEATHERSTRIP (MACHINE TRANSLATION)

69) Family number: 66793618 (KR19990004755U) © PatBase

Title: Car body weatherstrip (Machine translation)

Priority: KR19970017970U 19970708

Family:

Publication number	Publication date	Application number	Application date
KR19990004755 U	19990205	KR19970017970U	19970708

Probable Assignee: KIA MOTORS CORP

Assignee(s):(std)**:** KIA MOTORS CORP

International class (IPC 1–7)**:** B60J1/08

Abstract:
Source: KR19990004755U The present invention relates to a vehicle body, in particular the seal by simplifying the structure of the seal and to facilitate the production and fixing can improve the appearance beauty relates to automotive body of the weather strip. The present design is a plurality of the bent portion is formed on the outer surface is a clip having a protrusion which is opposite to the first fixing portion to be fixed to the first fixing portion and integrally fixed fitted to the flange portion of the vehicle body and a second fixing portion consisting of the first and second seal fixing portion between the one end of the pillar trim, it is fixed to the vehicle body, wherein the pillar trim seal, so as to cover the lower side of the fixing part is formed on one side of the cover and the features. Such a car according to the present invention, the fixing part and the body of the seal has recessed areas between the pillar trim is no longer exposed to the outside, there is an effect that improves the appearance Micah.

0) US2001017477A – EASY EJECTOR SEAT WITH SKELETAL CRASH SAFETY BE...

70) Family number: 34707591 (US2001017477A) © PatBase

Title: EASY EJECTOR SEAT WITH SKELETAL CRASH SAFETY BEAM

Priority:

CN201080006263 20100128 CN201180058999 20110906 EP20020076388 20020402
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: MILLENNIUM MOTOR CO

Assignee(s):(std)**:** RAJASINAHAM ARJUNA INDRAESWARA ; MILLENNIUM MOTOR CO ; MILLENNIUM MOTOR COMPANY ; ARJUNA I RAJASINGHAM ; ARJUNA IWDRAESWARAN RAJASINGHA ; RAJASINGHAM ARJUNA I ; MMILLENNIUMM GROUP ; RAJASINGHAM

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Assignee(s): ARJUNA I ; TRANSITIONS OPTICAL INC ; RAJASINGHAM ARJUNA INDRAESWAREN DR ; RAJASINGHAM ARJUNA INDRAESWAREN ; RAJASINGHAM ARJUNA IHDRAESWARAN ; RAJASINGHAM ARJUNA IWDRAESWARAN ; RAJASINGHAM ARJVNA INDRAESWARAN ; MMILLENNIUMM GROUP INC ; ARJUNA IWDRAESWARAN RAJASINGHAM ; RAJASINAHAM ARJUNA INDRAESWARAN

Inventor(s):(std)**:** RAJASINGHAM ARJVNA I ; RAJASINGHAM ARJUNA INDRAESWARA ; RAJASINGHAM ARJUNA INDRAESWARAN ; RAJASINGHAM DR ; RAJASINGHAM ARUNAN ; RAJASINGHAM ARJUNA IHDRAESWARA ; RAJASINGHAM ARJUNA ; RAJASINGHAM AMRITA ; RAJASINGHAM ARJUNA I ; ARJUNA IWDRAESWARAN RAJASINGHAM ; RAJASINGHAM ARJVNA INDRAESWARA ; RAJASINGHAM ARJUNA IWDRAESWARA ; RAJASINGHAM ARJUNA INDRAESWARE ; RAJASINAHAM ARJUNA INDRAESWARA ; ARJUNA I RAJASINGHAM

Inventor(s): ARJUNA I ; RAJASINGHAM ARJUNA INDRAESWAREN ; RAJASINAHAM ARJUNA INDRAESWARAN ; RAJASINGHAM ARJVNA INDRAESWARAN ; RAJASINGHAM ARJUNA IWDRAESWARAN ; RAJASINGHAM ARJUNA INDRAESWAREN DR ; RAJASINGHAM ARJUNA IHDRAESWARAN ; MONDAL SUIJIT ; KUMAR ANIL ; HE MENG ; DAI XIAO MAN ; DABIDEEN DARRIN R ; CHOPRA ANU ; XU RUISONG ; XIAO WENJING ; RAJASINGHAM ARJUNA INDRAESWARAN DR

Agent(s): ARJUNA RAJASINGHAM; OKADA NORIKO; YAMASAKI YUKUZO; SUGIYAMA NAOTO; SHIROGANE HIROSHI; AKAMATSU TOSHIAKI; ITOH TADAHIKO; SHIGEMORI KAZUKI; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; ONO MAKOTO; SHISHIDO KAICHI; MATSUSHITA MITSURU; KUMAKURA YOSHIO; KURASAWA ICHIRO; INO SARI; DESHIMARU TAKESHI; A I RAJASINGHAM; AI RAJASINGHAM; ARJUNA I RAJASINGHAM; ARJUNA INDRAESWARAN RAJASINGHAM

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class(IPC 8–9)**:** A47C7/14 A47C7/50 A47C7/62 A61G5/04 B01J8/02 B32B38/04 B60F3/00 B60N2/005 B60N2/01 B60N2/02 B60N2/06 B60N2/22 B60N2/24 B60N2/26 B60N2/28 B60N2/34 B60N2/42 B60N2/427 B60N2/44 B60N2/48 B60N2/50 B60N2/64 B60N2/66 B60N2/68 B60N2/70 B60Q1/00 B60R19/20 B60R21/00 B60R21/01 B60R21/02 B60R21/10 B60R21/16 B60R21/18 B60R21/207 B60R21/22 B60R21/233 B60R21/26 B60R21/276 B60R21/34 B60R22/10 B60R22/12 B60R22/18 B60R22/28 B60R27/00 B60R7/00 B60R99/00 B61D1/06 B61D1/08 B62B7/06 B62D21/15 B62D25/20 B62D61/12 B64C25/00 B64D11/06 B64D25/00 B64D25/04 C07D C07D311/26 C07D405/10 C07D407/10 G02B27/01 G02B27/02 G06F13/00 G06F3/01 G06F3/048 G06F3/0481 G06F3/0484 G06T15/20 G06T19/00 G08G1/16 G09G5/00 H04L29/06 H04N13/02 H04N13/04 H04N5/232 H04N7/18 H04R1/08 (Advanced/Invention);
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International class(IPC 1–7)**:** A47C4/54 B01J8/02 B60J7/00 B60N2/00 B60N2/02 B60N2/06 B60N2/06 B60N2/24 B60N2/26 B60N2/42 B60R19/20 B60R21/00 B60R21/01 B60R21/02 B60R21/32 B60R22/00 B60R27/00 B60R27/00 B62D21/15 B62D25/20 B62D27/00

CPC: B60N2/2893 B60N2/42709 B60N2/4882 B60N2/4885 B60R19/42 B64C1/062 B64C25/00 B64C2025/325 B64D25/00 Y10S297/04 A61G3/0808 A61G5/04 B62D21/152 A61G2203/723 A61G2203/36 B60R21/23138 A61G3/02 A61G3/06 B60N2/067 B60R21/02 B60R2021/0004 B60R2021/022 B60N2/06 B60N2/062 B60N2/245 B60N2/4214 B60N2/4279 B60R19/205 B60R2021/0006 A63F2300/8082 B60N2/26 B60N2/2809 B60N2/2824 B60N2/2833 B60N2/2869 B60N2/482 Y10T156/1057 G02B27/017 G02B2027/0138 G02B2027/0178 G06F3/04842 G06T15/205 G06T19/003 H04N5/23238 H04N7/183 H04N7/185 H04N13/0217 H04N13/0221 H04N13/0242 H04N13/044 B60N2/2812 B60N2/2821 B60N2/2839 B60N2/2845 B60N2/2848 B60N2/286 B60N2/2863 B60N2/2872 B60N2/2875 B60N2/2881 B60N2/2884 B60N2/2887 H04R1/08 G06F3/013 G06F3/04815 B62B7/06 B64D11/0627 B64D11/003 G02B27/22 G06F3/011 B60N2/4221 B60N2/4228 B60N2/4235 B60N2/64 B60N2/68 B60N2/7094 B60R2021/0039

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European class: A61G5/04 B60N2/005 B60N2/01 B60N2/06 B60N2/06C B60N2/06S B60N2/24C B60N2/26 B60N2/26B B60N2/28B2 B60N2/28B2T B60N2/28B4 B60N2/28C B60N2/28C2 B60N2/28D2 B60N2/28F B60N2/28G2 B60N2/28G4 B60N2/28H B60N2/28P2 B60N2/28P4 B60N2/28R B60N2/28S B60N2/28T B60N2/28U B60N2/28W B60N2/28Y B60N2/28Y4 B60N2/427D B60N2/427R2 B60N2/427T4 B60N2/42D2 B60N2/42D2F B60N2/42D4 B60N2/48C2B6 B60N2/48S B60N2/48W B60N2/64 B60N2/66 B60N2/68 B60N2/70Y B60R19/20C B60R21/02 B60R21/16B2L B60R21/18 B60R21/231L B62D21/15A B62D21/15B B64C1/06F2 B64C25/00 B64D11/06 B64D25/00 G06F3/01B4 K61G3/02 K61G3/06 K61G3/08 K61G5/10H K63F300/80V L60R19/20C L60R19/42 L60R21/00A1 L60R21/00A2 L60R21/00P2 L60R21/02A3 L60R21/231L L64C25/32A L64D11/06A10 L64D11/06A38 L64D11/06A8

US class: 1/1 156/253 156/253S 180/209 180/271 180/282 244/118.6 280/250.1 280/38 280/728.1 280/728.100S 280/730.1 280/730.100P 280/730.2 280/735 280/735S 280/736 280/748 280/748S 280/784 280/805 296/187.03 296/187.12 296/187.120P 296/188 296/189 296/190.04 296/205 296/26.08 296/26.080P 296/65.04 296/65.11 296/65.12 296/68.1 296/68.100P 297/183.6 297/216.1 297/216.100P 297/216.11 297/216.110P 297/216.12 297/216.19 297/217.3 297/232 297/250.1 297/256.13 297/284.1 297/284.100S 297/284.2 297/284.200S 297/284.3 297/284.6 297/284.600P 297/284.9 297/344.1 297/452.34 297/464 297/464S 297/DIG.4 340/425.5 340/457.1 340/461 340/686.1 340/686.2 345/156 345/8 5/632 5/633

Classification Explorer

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Forward Citations: WO13143747, WO13115931, WO13012890, WO12094419, WO11044435, WO10087965, WO09080193, WO09079668, WO09079668, WO08129327, WO08031605, USD793787, USD784749, USD782859, USD782241, USD779255, USD779254, USD779253, USD779252, USD779251, USD779250, USD779248, USD660605, USD543135, US9797128, US9797127, US9783310, US9776588, US9776535, US9749618,

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Abstract:
Source: US2001017477A An arrangement in passenger vehicles, that diverts the impact energy in impacts away from the passengers to the remaining mass of the vehicle thereby protecting the passengers, and in the same arrangement provides utilitarian access to the vehicle, such utilitarian access making it possible to both install multi−element contoured surround seats for passengers and the driver, and also a safety device for head−on collision protection that obviates the need for conventional seat belts and front impact airbags. An indo−skeletal structural arrangement proposed for the vehicle, provides further benefits by targeting the strength of the vehicle to protect passengers while minimizing other massive elements in the vehicle.

0) KR19990015881U – THE AUTOMOBILE PILLAR FRAME SEAL (MACHINE TRA...

71) Family number: 47979624 (KR19990015881U) © PatBase

Title: The Automobile pillar frame seal (Machine translation)

Priority: KR19970029218U 19971021

Family:

Publication number	Publication date	Application number	Application date
KR19990015881 U	19990515	KR19970029218U	19971021
KR200224293 Y1	20010601	KR19970029218U	19971021

Probable Assignee: HYUNDAI MOTOR CO

Assignee(s):(std)**:** HYUNDAI MOTOR CO

Assignee(s): AND GT I PERCENT PERCENT AND GT I PERCENT PERCENT

International class (IPC 8–9)**:** B60J10/00 (Advanced/Non–invention)

International class (IPC 1–7)**:** B60J10/00 B62D25/04

Classification Explorer

Abstract:
Source: KR19990015881U The subject innovation is the door and the body side opening weatherstrip of each soft and hard weatherstrip molded integrally by using the material of the retainer without the assistance of a pillar on and facilitates mounting the assembly to improve the productivity and to reduce the cost of a vehicle pillar frame seal, a center pillar (30) (40) mounted to the door opening in the mounting surface of the seal is harder than the opening seal (40) forms a hard rubber layer 50 at the center of the hard rubber layer 50 in the center of the pillar outer side panel 31 is inserted into the hole 32 formed in the locking projection (51) takes a installed projecting direction, while the pillar outer side panel 31 and the center pillar inner side panel (31a)(31b)(32a)(32b) fitted to 32, respectively, formed in the flange portion 55 of the body side seal layer 50 from opposite ends of a hard rubber, and is configured to form integrally.

0) US6557302B – DOG FOR FIXING A WINDOW GLASS ONTO A WINDOW LIF...

72) Family number: 13153851 (US6557302B) © PatBase

Title: Dog for fixing a window glass onto a window lifter

Priority: DE19981019910 19980505 DE19995004538 19990427 WO1999DE01270 19990427

Family:

Publication number	Publication date	Application number	Application date
BRPI9910249 A	20010109	BR1999PI10249	19990427
DE19819910 C1	19990617	DE19981019910	19980505
DE59904538 D1	20030417	DE19995004538	19990427
EP1076749 A1	20010221	EP19990929056	19990427
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ES2194473 T3	20031116	ES19990929056T	19990427
US6557302 BA	20030506	US20000674867	20001106
WO9957399 A1	19991111	WO1999DE01270	19990427

Probable Assignee: BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG

Assignee(s):(std): BROSE FAHRZEUGTEILE ; KAPS ROBERT

Assignee(s): BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCH ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDIT GESELLSC ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDIT GESELLSCHAFT COBURG ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCHAFT COBURG ; BROSE FAHRZEUGTEILE GMBH ; BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG 96450 COBURG DE ; BROSE FAHRZEUGTEILE GMBH AND CO KG COBURG

Inventor(s):(std): KAPS ROBERT

Inventor(s): KAPS ROBERT 96450 COBURG DE ; ROBERT KAPS

Designated states: AT BE BR CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE US

International class (IPC 8–9): E05F11/38 (Advanced/Invention)

International class (IPC 1–7): B60J1/17 E05F11/38

CPC: E05F11/385 E05Y2900/55

European class: E05F11/38B2 P05Y900/550

US class: 49/372 49/375 493/750

Classification Explorer

Cited documents: US72409 A, US6205711 BA, US5832667 A, US5778599 A, US5729930 A, US5673515 A, US5622005 A, US5515651 A, US5502926 A, US5243785 A, US4991351 A, US4910917 A, US4475314 A, EP0643188 A1, DE4423440 A1, DE4218425 A1, DE4102941 A1, DE2843633 A1,

Forward Citations: US8544209, US8240086, US8132368, US8065835, US7802401, US7721487, US7654041, US7409797, US6957514, US2011225888, US2009188169, US2009145035, US2009038227, US2009019780, US2008289256, US2007006533, US2007000178, US2005072051, US2004168372, US2003061765, DE202004013669,

Abstract:
Source: US6557302B A carrier for connecting a window pane to a window lifter including retaining arms which are located to each side of the lower edge of the window pane. At least one of these retaining arms has a recess in which a window bolt can engage to connect the window pane to the carrier. At least the upper part of at least one retaining arm is resilient. One retaining arm has a retaining area formed as a horizontal oblong guide and the other retaining arm has a fixing area which is resiliently attached to the carrier for horizontally urging the window bolt as the bolt moves with respect to the carrier within the horizontal guide.

0) US6152485A – HEAD–PROTECTING AIR BAG DEVICE FOR A VEHICLE

73) Family number: 12696699 (US6152485A) © PatBase

Title: HEAD–PROTECTING AIR BAG DEVICE FOR A VEHICLE

Priority: JP19980068218 19980318

Family:

Publication number	Publication date	Application number	Application date
DE19911929 A1	19990923	DE19991011929	19990317
DE19911929 B4	20040819	DE19991011929	19990317
JP11263184 A2	19990928	JP19980068218	19980318
JP3104668 B2	20001030	JP19980068218	19980318
US6152485 A	20001128	US19990270058	19990316

Probable Assignee: TOYOTA JIDOSHA KK

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA K K TOYOTA ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** KATO MAKOTO

International class (IPC 8–9)**:** B60J1/10 B60R13/02 B60R13/04 B60R21/08 B60R21/20 B60R21/213 B60R21/215 B62D25/04 (Advanced/Invention); B60R21/16 (Advanced/Non–invention); B60J1/08 B60R13/02 B60R13/04 B60R21/02 B60R21/20 B62D25/04 (Core/Invention); B60R21/16 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/10 B60R13/02 B60R13/04 B60R21/06 B60R21/08 B60R21/20 B60R21/22 B60R21/24 B62D25/04

CPC: B60R21/213 B60R2021/161

European class: B60R21/20K B60R21/213 L60R21/16C

US class: 280/728.2 280/730.1 280/730.2 280/749

Classification Explorer

Cited documents: WO9626087 A1, US5924722 A, US5899491 A, US5791683 A, US5462308 A, JPS60128019 A2, JP9315253, JP9240409, JP9207701, JP8282394, JP8080868, JP61030902 Y1, JP60128019 A2, JP58194911 U, JP58035417 U, JP56147120 U, JP54126325 U, JP5286360, JP3112413 U, JP10138858, JP10138856, DE29614201 U1, DE29603316 U1,

Forward Citations: WO12035949, US8807595, US8109532, US7934746, US7775549, US7621556, US6889999, US6851710, US6808198, US6793239, US6719321, US6705639, US6616222, US6382660, US6340169, US2013168950, US2010194152, US2010001496, US2009267330, US2008073887, US2007108742, US2003178832, US2003178821, JP6035184, JP6035183, JP5700280, JP5629325, JP3846132, JP2014193631, JP2014193630, JP2012131334, JP2006298334, JP2001130446, GB2459559, GB2459559, DE102006053990, DE10151194,

Abstract:
Source: US6152485A A pillar garnish is formed by a pillar garnish main body portion which forms a portion of a front pillar at the interior of a vehicle, and a pillar garnish divided portion separated from the pillar garnish main body portion and forming a portion of a division bar at the interior of a vehicle. The pillar garnish divided portion includes an extending portion which extends along an upper edge of a fixed window. A guide surface for guiding the expansion of the air bag body is formed at an upper edge of the extending portion along a direction in which the front pillar extends. During the expansion of the air bag body, only the pillar garnish main body portion opens along the guide surface and the pillar garnish divided portion remains unmoved.

0) EP1031690A1 – VEHICLE DOOR FAHRZEUGTUER PORTE DE VEHICULE A...

74) Family number: 12982675 (EP1031690A1) © PatBase

Title: VEHICLE DOOR

Priority: FR19990002177 19990222

Family:

Publication number	Publication date	Application number	Application date
AT257207 E	20040115	AT20000400133T	20000119
DE60007468 D1	20040205	DE20006007468	20000119
DE60007468 T2	20041021	DE20006007468T	20000119
EP1031690 A1	20000830	EP20000400133	20000119
EP1031690 B1	20040102	EP20000400133	20000119
ES2213546 T3	20040901	ES20000400133T	20000119
FR2790028 A1	20000825	FR19990002177	19990222
FR2790028 B1	20010608	FR19990002177	19990222

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES S A ; PEUGEOT CITROEN AUTOMOBILES S A NEUILLY SUR SEINE

Inventor(s):(std)**:** BERREUR JEAN CHARLES

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class(IPC 8–9)**:** E05B47/02 E05B65/20 E05B65/22 (Advanced/Invention); E05B63/14 (Advanced/Non–invention); E05B47/02 E05B65/20 E05B65/22 (Core/Invention); E05B63/00 (Core/Non–invention)

International class(IPC 1–7)**:** B60J5/00 E05B47/00 E05B47/02 E05B47/02 E05B65/20 E05B65/22

CPC: E05B81/04 E05B83/38 E05B63/143 E05B85/22

European class: E05B81/00 E05B83/38 E05B85/22 P05B63/14B

Classification Explorer

Cited documents: US5715712 A, US5693987 A, FR2513298 A1, FR2439284 A1, DE9411741 U, DE4425109 A1, DE4311911 A1,

Forward Citations: WO15117211, WO04103749, US7320495, DE10323150, DE10323150, DE102007054000, DE102004041742,

Abstract:
Wide side access to vehicle is obtained by omitting central pillar, rear edge of front door (10), hinged at front, adjoining front edge of rear (sliding) door, when both are closed. Without central pillar, front door lock is placed on upper or lower edge, engaging with fixing point in top or bottom of door frame (12), i.e. coach work box sections forming edge of roof (12S) or door sill (12I). Locks are at both these positions. Sill–level lock is fixed in base (14I) of door casing, and embodies rotating bolt plate (22), with two–stage latching, engaging vertical hasp–bar (16) fixed on top of sill case (12I). When door closes fully, it operates push–button switch (32) in door frame which energizes second, electrical lock (30) within door frame top (14S). Lock expels bolt (28) into recess (26) in frame (12S). Bolt is chamfered to ease entry and final sealing. Relative positions of two locks can be reversed.

0) US6606763B – DOOR HINGE

75) Family number: 28992695 (US6606763B) © PatBase

Title: DOOR HINGE

Priority: DE19991030328 19990702 DE20005001886 20000628 WO2000EP06003 20000628

Family:

Publication number	Publication date	Application number	Application date
AU200065595 A5	20010122	AU20000065595	20000628
DE19930328 C1	20001026	DE19991030328	19990702
DE50001886 D1	20030528	DE20005001886	20000628
EP1192329 A1	20020403	EP20000952972	20000628
EP1192329 B1	20030423	EP20000952972	20000628
JP2003503280 T2	20030128	JP20010507894T	20000628
JP4603741 B2	20101222	JP20010507894T	20000628
US6606763 BA	20030819	US20010019493	20011227
WO0102682 A1	20010111	WO2000EP06003	20000628

Probable Assignee: EDSCHA AG

Assignee(s):(std)**:** BRUECKNER LOTHAR ; EDSCHA AG

Inventor(s):(std)**:** BRUCKNER LOTHAR ; BRUECKNER LOTHAR

Inventor(s): LOTHAR BRUCKNER

Agent(s): NAKAMURA GIHEI; ITOH HIDEHIKO; HORII YUTAKA; MORITA TOSHIO; MORISHITA HACHIRO; FUKAMI HISAO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): B60J5/04 E05D3/06 E05D3/14 E05D7/04 (Advanced/Invention); E05D3/10 (Advanced/Non–invention); B60J5/04 E05D3/00 E05D7/04 (Core/Invention)

International class (IPC 1–7): B60J5/04 E05D15/32 E05D3/06 E05D5/02 E05D7/04

CPC: Y10T16/547 Y10T16/554 E05D3/147 E05D3/10 E05D7/04 E05Y2900/531

European class: E05D3/14V2 E05D7/04 P05D3/10 P05Y900/531

US class: 16/366 16/382

Classification Explorer

Cited documents: US6149222 A, US6030025 A, US5685046 A, US5289615 A, US4665586 A, US3275370 A, US3095600 A, EP0596403 A1, EP0569403 A1,

Forward Citations: WO10024173, US9217269, US8234816, US8007026, US7347483, US7328932, US7257860, US7150492, US7100245, US7100245, US7048322, US6938303, US6820918, US6817065, US6817063, US2010301631, US2007145774, US2006208529, US2006175867, US2005204511, US2005184556, US2005116497, US2005086770, US2005076472, DE102014216369,

Abstract:
Source: US6606763B A hinge for a motor vehicle door allows the door to be displaced with respect to a door pillar in a transverse movement combined with a pivoting movement by means of a four–joint mechanism that has a support arm and a control rod, both of which are hinged to the door and the door pillar. The support arm has a base support arm, at least one support arm element that can be detached from the base support arm and that has two hinge lugs supported on an extremity of the support arm, and means for interlinking the base support arm and the support arm element. The support arm element can be adjusted relative to the support arm through an axis that extends through the tangent plane of the base support arm and the support arm element by rotating them around a swiveling axis that is perpendicular to the tangent plane.

0) US6817065B – DOOR HINGE

76) Family number: 15277735 (US6817065B) © PatBase

Title: DOOR HINGE

Priority: DE19991030322 19990702 DE20005001631 20000628 WO2000EP06005 20000628

Family:

Publication number	Publication date	Application number	Application date
AU200059794 A5	20010122	AU20000059794	20000628
DE19930322 C1	20001102	DE19991030322	19990702
DE50001631 D1	20030508	DE20005001631	20000628
EP1190154 A1	20020327	EP20000945839	20000628
EP1190154 B1	20030402	EP20000945839	20000628
JP2003503281 T2	20030128	JP20010507895T	20000628
JP4603742 B2	20101222	JP20010507895T	20000628
US6817065 BA	20041116	US20020019818	20020403
WO0102683 A1	20010111	WO2000EP06005	20000628

Probable Assignee: EDSCHA AG

Assignee(s):(std)**:** BRUECKNER LOTHAR ; EDSCHA AG

Inventor(s):(std)**:** BRUECKNER LOTHAR ; BRUCKNER LOTHAR

Inventor(s): LOTHAR BRUCKNER

Agent(s): NAKAMURA GIHEI; ITOH HIDEHIKO; HORII YUTAKA; MORITA TOSHIO; MORISHITA HACHIRO; FUKAMI HISAO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): B60J5/04 E05D3/06 E05D3/18 E05D7/04 (Advanced/Invention); E05D3/10 E05D7/00 (Advanced/Non–invention); B60J5/04 E05D3/00 E05D7/04 (Core/Invention); E05D7/00 (Core/Non–invention)

International class (IPC 1–7): B60J5/04 E05D3/06 E05D7/04

CPC: Y10T16/547 Y10T16/554 E05D3/147 E05D3/10 E05D3/127 E05D7/0045 E05D7/04 E05Y2900/531

European class: E05D3/14V2 E05D7/04 P05D3/10 P05D3/12V2 P05D7/00B2B P05Y900/531

US class: 16/366 16/382

Classification Explorer

Cited documents: US6606763 BA, US6386621 BA, US6305737 BA, US6196618 BA, US6149222 A, US6052870 A, US6030025 A, US5685046 A, US5632065 A, US5398988 A, US5289615 A, US5074611 A, US4665587 A, US4665586 A, US3275370 A, US3095600 A, US3065600 A, FR880197 A, EP0596403 A1, EP0562444 A1,

Forward Citations: US8307512, US7784734, US7328932, US6979046, US2017241179, US2010257700, US2008099601, US2007152473, US2007145774, US2005156451,

Abstract:
Source: US6817065B A motor vehicle door hinge allows the door to be displaced relative to a doorpost in transverse and pivoting movements by means of a four–bar mechanism having a supporting arm and a control rod. The supporting arm is hingedly secured to the door's side and the doorpost by two respective hinge eyelets end areas. The control rod is coupled with a bearing plate on the door's side and the doorpost, whereby a corresponding hinge eyelet of the support arm is also coupled therewith, and with a hinge element on its end facing away from the side. The hinge acts upon the door's position by mounting the hinge element, coupled with the control rod, so that it can be displaced with and in the direction of said control rod relative to a corresponding hinge elements that is associated with a hinge eyelet of the supporting arm.

0) EP1050645A1 – MOTOR VEHICLE WITH A LOCK FIXED TO A SIDE DOOR ...

77) Family number: 13684371 (EP1050645A1) © PatBase

Title: Motor vehicle with a lock fixed to a side door

Priority: FR19990005635 19990504

Family:

Publication number	Publication date	Application number	Application date
DE60012077 D1	20040819	DE20006012077	20000427
DE60012077 T2	20050721	DE20006012077T	20000427
EP1050645 A1	20001108	EP20000401156	20000427
EP1050645 B1	20040714	EP20000401156	20000427
FR2793274 A1	20001110	FR19990005635	19990504
FR2793274 B1	20010727	FR19990005635	19990504

Probable Assignee: VALEO SECURITE HABITACLE

Assignee(s):(std)**:** VALEO SECURITE HABITACLE ; VALEO SECURITE HABITACLE SAS

Assignee(s): VALEO SECURITE HABITACLE S A S ; VALEO SECURITE HABITACLE S A S CRETEIL

Inventor(s):(std)**:** HOCHART JEAN PHILIPPE ; MOULY PIERRE HENRY ; MOULY PIERRE HENRI

Inventor(s): PIERRE HENRI MOULY ; JEAN PHILIPPE HOCHART

Agent(s): VALEO SECURITE HABITACLE

Designated states: DE ES GB IT

International class (IPC 8–9)**:** E05B65/20 (Advanced/Invention); E05B47/00 E05B63/00 (Advanced/Non–invention); E05B65/20 (Core/Invention); E05B47/00 E05B63/00 (Core/Non–invention)

International class (IPC 1–7)**:** B60J5/04 E05B47/00 E05B65/20

CPC: E05B47/00 E05B63/0052 E05B83/38

European class: E05B83/38 P05B47/00 P05B63/00R

Classification Explorer

Cited documents: US5398988 A, GB2268966 A1, GB2105777 A1, FR2768763 A1, DE4436617 C1,

Forward Citations: WO06024264, WO04103749, DE10322122, DE10322122, DE102010035006, DE102004041742,

Abstract:
Lock (4) is placed in lower section (3) of door (P). Lock staple (6) is placed in lower section of body, slightly leveled wi car floor. Second lock staple (16) is placed in upper section (10) of door, opposite second lock (14). Second lock comprises electric actuator controlling lock opening. Opening signal is sent by central control unit in car in answer to opening request f user.

0) EP1050646A1 – LOCKING DEVICE FOR A MOTOR VEHICLE SIDE DOOR AN...

78) Family number: 13018798 (EP1050646A1) © PatBase

Title: LOCKING DEVICE FOR A MOTOR VEHICLE SIDE DOOR AND VEHICLE EQUIPPED WITH SUCH A DEVICE

Priority: FR19990005636 19990504

Family:

Publication number	Publication date	Application number	Application date
DE60018324 D1	20050407	DE20006018324	20000427
DE60018324 T2	20060112	DE20006018324T	20000427
EP1050646 A1	20001108	EP20000401157	20000427
EP1050646 B1	20050302	EP20000401157	20000427
ES2238977 T3	20050916	ES20000401157T	20000427
FR2793275 A1	20001110	FR19990005636	19990504
FR2793275 B1	20010629	FR19990005636	19990504

Probable Assignee: VALEO SECURITE HABITACLE

Assignee(s):(std)**:** VALEO SECURITE HABITACLE ; VALEO SECURITE HABITACLE SAS

Assignee(s): VALEO SECURITE HABITACLE S A S ; VALEO SECURITE HABITACLE S A S CRETEIL

Inventor(s):(std)**:** MOULY PIERRE HENRI ; HOCHART JEAN PHILIPPE

Inventor(s): JEAN PHILIPPE HOCHART ; PIERRE HENRI MOULY

Agent(s): VALEO SECURITE HABITACLE

Designated states: DE ES GB IT

International class (IPC 8–9)**:** E05B65/20 E05B65/22 E05B65/32 (Advanced/Invention); E05B53/00 E05B65/22 E05B65/32 (Advanced/Non–invention); E05B65/20 E05B65/22 E05B65/32 (Core/Invention); E05B53/00 E05B65/22 E05B65/32 (Core/Non–invention)

International class (IPC 1–7)**:** B60J5/04 E05B65/22 E05B65/32

CPC: E05B79/20 E05B83/38 E05B85/22 E05B85/243

European class: E05B83/38 P05B53/00D2 P05B85/22 P05B85/243

Classification Explorer

Cited documents: US4662109 A, US3596960 A, GB2105777 A1, FR2757558 A1, DE9302707 U,

Forward Citations: FR2941988, EP1849940, EP1849940, DE102010035006, DE102004041742, CN102619412,

Abstract:
The catch for the side door of a car consists of a rotating locking plate (12) and a clip (15) which locks it over a pin (11 fixed to the car bodywork. the catch is opened by a door handle (18) connected by a cable (17) to a pin (15b) on the clip. A loc button (6) mounted in a reinforced section (24) of the door is connected by a rod (22) to a control lever (20). This cooperates the outer surface (26) of the locking plate and keeps the button down when the locking plate is freed from the locking pin (11)

0) DE19926142A1 – VEHICLE SIDE WINDOW OPENER INCORPORATES ARTICUL...

79) Family number: 12400223 (DE19926142A1) © PatBase

Title: VEHICLE SIDE WINDOW OPENER INCORPORATES ARTICULATED LEVER, SPINDLE NUT, HOUSING, PIN, LINK, SIDE GUIDE LINK AND THREADED SPINDLE

Priority: DE19991026142 19990609

Family:

Publication number	Publication date	Application number	Application date
DE19926142 A1	20001214	DE19991026142	19990609
DE19926142 B4	20070913	DE19991026142	19990609

Probable Assignee: VOLKSWAGEN AG

Assignee(s):(std)**:** VOLKSWAGEN AG ; VOLKSWAGENWERK AG

Inventor(s):(std)**:** MAYER JOERG

International class (IPC 8–9): B60J1/14 E05F15/12 (Advanced/Invention); B60J1/12 E05F15/12 (Core/Invention)

International class (IPC 1–7): B60J1/14 E05F15/12

CPC: B60J1/14 E05F15/622 E05F15/63 E05Y2900/55

European class: B60J1/14 E05F15/12D3 E05F15/12H P05Y900/550

Classification Explorer

Cited documents: US5140771, DE3500874,

Abstract:
One end of an articulated lever (7) is linked to the window pane (2), and the other end to a spindle nut (10) forming swivel axles parallel with the window pane. The articulated lever is at least partially contained in a housing (11) which secures the spindle nut against rotation. A threaded spindle (12) prevents axial movement. At least one side of the articulated lever carries a pin (14)with axis parallel with the pane. The pin is further away from the link (8) between the articulated lever and window pane than from the link between the articulated lever and spindle nut. When the spindle nut moves axially, the pin runs along a housing–side guide–link (15) sloping towards the window pane.

0) US6332641B – SIDE DOOR STRUCTURE FOR VEHICLE

80) Family number: 13094850 (US6332641B) © PatBase

Title: Side door structure for vehicle

Priority: JP19990200836 19990714

Family:

Publication number	Publication date	Application number	Application date
DE60009986 D1	20040527	DE20006009986	20000602
DE60009986 T2	20040902	DE20006009986T	20000602
EP1068970 A1	20010117	EP20000111752	20000602
EP1068970 B1	20040421	EP20000111752	20000602
JP2001026218 A2	20010130	JP19990200836	19990714
KR100671636 B1	20070118	KR20000036911	20000630
KR20010015105 A	20010226	KR20000036911	20000630
US6332641 BA	20011225	US20000587442	20000605

Probable Assignee: MAZDA MOTOR CORP

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP ; MAZDA MOTOR CORP HIROSHIMA

Inventor(s):(std)**:** OKANA FUMIO

Designated states: DE

International class (IPC 8–9)**:** B60J5/00 B60J5/04 E06B3/36 (Advanced/Invention); B60J5/04 (Advanced/Non–invention); B60J5/00 B60J5/04 E06B3/32 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B60J5/04 B62D25/04 B62D25/05 B62D25/20 E06B3/36

CPC: B60J5/0425 B60J5/043 B60J5/0479

European class: B60J5/04E2B10 B60J5/04E2B2 B60J5/04H5B

US class: 296/146.6 296/146.9 296/187.12 296/202 296/204 296/210

Classification Explorer

Cited documents: US6129412 A, US6059352 A, US6022070 A, US5855394 A, US5782523 A, US5752737 A, US5398988 A, US5096254 A, US4978562 A, US2997336 A, US1869274 A, US1639037 A, JP9150752 A2, JP9150752, JP57041209 A2, JP10109662 A2, JP10109662, EP0220414 A2, DE2414114 A1,

Forward Citations: WO17162994, WO16035506, WO11124550, WO08047175, US9180815, US9039067, US8328268, US8123278, US7992925, US7819465, US6991278, US6929308, US6926340, US6923492, US6877796, US6857692, US6824167, US6808225, US6779831, US6764124, US6749253, US6719355, US6694676, US6659537, US6641205, US6601910, US6568742, US6450565, US2015360547, US2015008697, US2014284961, US2012091749, US2010156140, US2007222256, US2006012218, US2004178659, US2004119318, US2004104602, US2004090087, US2004080179, US2004056509, US2003160476, US2003107236, JP6177744, JP5101056, JP4907247, JP4206670, JP3765274, JP2016052829, JP2014162441, JP2014162440, JP2009090980, JP2008239107, JP2008062794, JP2008013142, JP2008013139, JP2007253783, JP2003237369, JP2003226136, JP2003054447, JP2003026044, JP2003025844, JP2003011669, JP2002283955, FR3049260, FR2917050, FR2917049, FR2917047, FR2914230, FR2859137, EP1685994, EP1685994, EP1410956, EP1405746, EP1405746, EP1340641, EP1336539, DE102015214086, DE102015214085, DE102013114114, DE102011119539, DE102011087632, DE102010003755, DE102008005490, DE102008005490, DE102005004575, DE102004054760, DE102004013357, DE10119131, CN105927072, CN104276011, CN102770291, CN102616118, CN102616118, CN102452304, CN102452304, CN101890984,

Abstract:
Source: US6332641B Double–leafed hinged door type front and rear doors do not have a center pillar in a side opening. In order that one can open and close the front and rear doors independently of each other and in order to

protect passengers by absorbing any impact caused by side collision, reinforcing members (10, 11) obtained from high tensile steel by hydroforming are provided near joint surfaces of the front door (2) and rear door (3) provided to the side opening of a car body (1).

0) JP2001027067A – HINGE STRUCTURE FOR SIDE DOOR OF VEHICLE

81) Family number: 14059003 (JP2001027067A) © PatBase

Title: HINGE STRUCTURE FOR SIDE DOOR OF VEHICLE

Priority: JP19990200837 19990714

Family:

Publication number	Publication date	Application number	Application date
JP2001027067 A2	20010130	JP19990200837	19990714

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP

Inventor(s):(std)**:** OKANA FUMIO

International class (IPC 8–9): B60J5/04 E05D3/06 (Advanced/Invention); B60J5/04 E05D3/00 (Core/Invention)

International class (IPC 1–7): B60J5/04 E05D3/06

Classification Explorer

Forward Citations: US6779831, JP4203891, JP2011016531, JP2005138799, JP2002283955,

Abstract:
Source: JP2001027067A PROBLEM TO BE SOLVED: To ensure the operability of a door when opened/closed, by using a complex orbit hinge, as a front hinge or a rear hinge, which is rotated after separation from a joint surface between a front door and a rear door. SOLUTION: A front door 2 and a rear door 3 are arranged in a side opening of a vehicle in a manner being opened double−swingingly without provision of a center pillar. When a door sash of the front door 2 and a door sash of the rear door 3 are closed, a weather strip 15 is fixed to the door sash of the front door 2 in the downward direction, and a state where a bifurcated lip abuts on the door sash and its lower portion of the rear door 3, is maintained. When the front door 2 is opened, it almost linearly moves in a direction of an arrow D1, and thereafter it is rotated in a direction of an arrow D2 to be opened. Thus, a force to move the lip of the weather strip 15 in a vehicle outward direction is not generated, to thereby ensure the operability of a door when opened/closed.

0) US6196618B – HINGE SYSTEM

82) Family number: 14976987 (US6196618B) © PatBase

Title: HINGE SYSTEM

Priority: US20000490578 20000125

Family:

Publication number	Publication date	Application number	Application date
US6196618 BA	20010306	US20000490578	20000125

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std): GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP ; GM GLOBAL TECHNOLOGY OPERATIONS INC ; UNITED STATES DEPARTMENT OF TREASURY ; UAW RETIREE MEDICAL BENEFITS TRUST ; WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; CITICORP USA INC ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED P ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED PARTIES AS ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED PARTIES AS

Inventor(s):(std): LOWERY JASON E ; PIETRYGA BRAD L

International class (IPC 8–9): B60J5/04 E05D15/34 (Advanced/Invention) ; E05D3/06 E05D9/00 (Advanced/Non–invention) ; B60J5/04 E05D15/00 (Core/Invention) ; E05D3/00 E05D9/00 (Core/Non–invention)

International class (IPC 1–7): B60J5/00

CPC: E05Y2900/531 B60J5/0479 E05D3/127 E05D3/145 E05D9/00 E05D15/34 Y10T16/61

European class: B60J5/04H5B E05D15/34 P05D3/12V2 P05D3/14V P05D9/00

US class: 16/82 296/146.11 296/146.12 296/155 49/248

Classification Explorer

Cited documents: US6052870 A, US6030025 A, US5871255 A, US5632065 A, US5491875 A, US5398988 A, US5244247 A, US4932714 A, US4797971 A, US4561690 A, US4505500 A, US4157846 A, US4135760 A, US4110934 A, US4025104 A, US4019775 A, US3466698 A, US3074755 A, US3051280 A, US3004303 A, US2993730 A, US1253641 A, GB902405 A, FR2700505 A1, FR2542796 A1, EP0180922 A2, EP000180922,

Forward Citations: US9598887, US8141297, US7980621, US7950719, US7950109, US7918492, US7896425, US7895712, US7887118, US7856759, US7798557, US7488029, US7143548, US7104588, US7000976, US6974177, US6971706, US6913308, US6877279, US6817065, US6793268, US6609748, US6386621, US6382705, US6305737, US2011010998, US2010300181, US2010295337, US2010171336, US2010127530, US2009072583, US2009072582, US2009070960, US2009051194, US2009039678, US2008305195, US2008129082, US2008100394, US2007152473, US2006273619, US2005264027, US2005194820, US2005160673, US2005140145, US2005127712, US2004189045, GB2369394, GB2369394, CN105927072, CN105863418,

Abstract:
Source: US6196618B A vehicle access system includes an access opening for the passenger compartment that is closed by a swinging door in combination with an access door. The access door moves through an arc without angling away from the vehicle body and is supported on a hinge assembly that attaches near the center of the door. An arm assembly guides the door throughout its range of positions and maintain the door in an orientation that is substantially parallel to the vehicle body. When the doors are open, an uninterrupted access opening is provided to the area of the second and third seat rows of the vehicle.

0) US6345859B – ROOF FOR A VEHICLE

83) Family number: 12508728 (US6345859B) © PatBase

Title: Roof for a vehicle

Priority: DE19991041986 19990903 DE20005011245 20000713

Family:

Publication number	Publication date	Application number	Application date
AT305392 E	20051015	AT20000115197T	20000713
DE19941986 A1	20010322	DE19991041986	19990903
DE50011245 D1	20060209	DE20005011245	20000713
EP1080961 A2	20010307	EP20000115197	20000713
EP1080961 A3	20021113	EP20000115197	20000713
EP1080961 B1	20050928	EP20000115197	20000713
ES2245916 T3	20060201	ES20000115197T	20000713
JP2001088742 A2	20010403	JP20000263282	20000831
US6345859 BA	20020212	US20000654895	20000905

Probable Assignee: DR ING HCF PORSCHE AG

Assignee(s):(std)**:** PORSCHE AG

Assignee(s): DRING HCF PORSCHE AG ; PORSCHE ZWISCHENHOLDING GMBH ; DR ING H C F PORSCHE AG ; DR ING H C F PORSCHE AKTIENGESELLSCHAFT ; DR ING HCF PORSCHE (COMPANY NUMBER 722287) AG ; DR ING HCF PORSCHE AG ; DR ING HCF PORSCHE COMPANY NUMBER 722287 AG

Inventor(s):(std)**:** THOMAS PETER

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** B60J7/02 B60R9/04 B62D25/06 (Advanced/Invention); B60J7/02 B60R9/00 B62D25/06 (Core/Invention)

International class (IPC 1–7)**:** B60J7/02 B60J7/04 B60J7/043 B60J7/2 B60R9/058 B60R9/4 B62D25/6

CPC: B60J7/022 B60R9/04

European class: B60J7/02B B60R9/04

US class: 224/326 296/216.08

Classification Explorer

Cited documents: US6012766 A, US5540478 A, US5197779 A, GB1411305 A, FR2701677 A1, FR2672260 A1, EP0366045 A2, DE4344604 C1, DE4344604 A1, DE3151405 A1, DE2950643 A1, DE2936052 A1, DE19613761 C1,

Forward Citations: US7938483, US7527328, US7399030, US7320498, US7303227, US7201436, US7163260, US7114769, US6938946, US6742836, US2008290697, US2008290696, US2007158965, US2007114818, US2007102967, US2006119142, US2006055210, US2005280293, US2005280292, US2005280291, US2005280290, US2003168890, EP1645473, EP1493625, EP1155942, DE102008045574, DE102005001216,

Abstract:
Source: US6345859B A roof for a motor vehicle with a stationary, continuous roof element, particularly with at least one movable roof section, which is held movably on a guide rail and the guide rail is connected with a roof pillar and sealed with respect to the latter. The guide rail of the roof or of a roof module in each case is disposed on the inside of the side roof pillar forming the boundary of a roof opening and is connected with the latter. In a recessed channel, longitudinally extending between the side roof spar and the guide rail, a holding rail for a roof–transporting system is disposed.

0) US2001040392A – VEHICLE FRONT PILLAR

84) Family number: 28146882 (US2001040392A) © PatBase

Title: Vehicle front pillar

Priority: EP20000126226 20001130 JP19990340237 19991130 JP19990340262 19991130 US20040989426 20041117 US20000725447 20001130

Family:

Publication number	Publication date	Application number	Application date
DE60038938 D1	20080703	DE20006038938	20001130
DE60041795 D1	20090423	DE20006041795	20001130
EP1106484 A2	20010613	EP20000126226	20001130
EP1106484 A3	20030502	EP20000126226	20001130
EP1106484 B1	20080521	EP20000126226	20001130
EP1914152 A1	20080423	EP20080000750	20001130
EP1914152 B1	20090311	EP20080000750	20001130
JP2001151149 A2	20010605	JP19990340237	19991130
JP2001151150 A2	20010605	JP19990340262	19991130
JP3503883 B2	20040308	JP19990340262	19991130
US2001040392 AA	20011115	US20000725447	20001130
US2005088012 AA	20050428	US20040989426	20041117
US6854790 BB	20050215	US20000725447	20001130
US7021700 BB	20060404	US20040989426	20041117

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s):(std)**:** HONDA MOTOR CO LTD

Assignee(s): HONDA GIKEN KOGYO K K ; HONDA GIKEN KOGYO KABUSHIKI KAISHA ; HONDA GIKEN KOGYO KK

Inventor(s):(std)**:** YOSHIDA SUGURU ; YOSHIDA TAKASHI

Agent(s): PRECHTEL JOERG ET AL; ARENT FOX KINTNER PLOTKIN AND KAHN; ARENT FOX PLLC

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

International class (IPC 8–9): B60R13/02 B60R21/02 B62D21/15 B62D25/00 B62D25/04 B62D27/02 (Advanced/Invention); B60R13/02 B60R21/02 B62D25/04 (Core/Invention)

International class (IPC 1–7): B60J7/00 B60R13/02 B60R21/02 B62D21/15 B62D25/00 B62D25/04 B62D25/08 B62D27/02

CPC: B62D21/15 B62D25/04

European class: B62D21/15 B62D25/04

US class: 296/187.04 296/187.040S 296/187.05 296/187.050P 296/193.06 296/203.02 296/203.020P 296/205 296/205S

Classification Explorer

Cited documents: WO9962755 A1, US5988733 A, US5941597 A, US5836641 A, US5810428 A, US5575500 A, US5163730 A, US5042872 A, JP9277958, JP9039833 A2, JP4238726, JP1007020, GB2308340, EP0691259, DE3441602 A1,

Forward Citations: WO12027092, WO12027092, WO10001847, US9738324, US9598112, US9574527, US9481320, US9413860, US9365166, US8964641, US8894133, US8824478, US8727427, US8690232, US8668251, US8622465, US8517458, US8444211, US8398157, US8276979, US7998232, US7731272, US7686386, US7600809, US7585017, US7506911, US7445269, US7396071, US6817654, US6739624, US6478366, US2016039359, US2015152818, US2015001884, US2014117719, US2013163524, US2013133771, US2012049575, US2011101735, US2009309389, US2009242309, US2009167056, US2009102217, US2008315627, US2008143149, US2008143148, US2008143144, US2008136216, US2007063546, US2006255624, JP5001229, JP4987807, JP4987806, JP4920012, JP4483843, JP3772745,

JP2010013029, JP2010013023, JP2010013020, JP2010013019, JP2006321491, JP2003205858, FR2903370, FR2899552, EP2610146, EP2599690, EP2305539, CN104080690, CN104080690, CN103144678,

Abstract:
Source: US2001040392A In a vehicle front pillar including inner and outer frame members joined into a substantial tubular shape, a fore portion of the inner frame member is oriented toward the front of the vehicle and has at least one bent portion formed thereon so as to serve as a shock absorbing section. Rear portion of the inner frame member is oriented toward the back of the vehicle and has a reinforcing member of a closed sectional structure attached thereto so as to serve as a high−rigidity section. The reinforcing member may have a circular or rectangular cross−sectional shape.

0) US2001002762A – FRONT PILLAR FOR A VEHICLE

85) Family number: 28117504 (US2001002762A) © PatBase

Title: Front pillar for a vehicle

Priority: JP19990345532 19991203

Family:

Publication number	Publication date	Application number	Application date
DE10059690 A1	20010628	DE20001059690	20001201
DE10059690 B4	20040805	DE20001059690	20001201
JP2001163253 A2	20010619	JP19990345532	19991203
JP4294818 B2	20090715	JP19990345532	19991203
US2001002762 AA	20010607	US20000728118	20001204
US6340203 BB	20020122	US20000728118	20001204

Probable Assignee: HONDA GIKEN KOGYO KK

Assignee(s):(std): HONDA MOTOR CO LTD

Assignee(s): YOSHIDA SUGURU ; ENOMOTO KOUJI ; HONDA GIKEN KOGYO K K TOKIO TOKYO ; HONDA GIKEN KOGYO KABUSHIKI KAISHA ; HONDA GIKEN KOGYO KK

Inventor(s):(std): ENOMOTO KOJI ; ENOMOTO KOUJI ; YOSHIDA SUGURU ; YOSHIDA TAKASHI

International class (IPC 8–9): B62D25/04 (Advanced/Invention) ; B62D25/04 (Core/Invention)

International class (IPC 1–7): B60J7/00 B62D25/04

CPC: B62D25/04

European class: B62D25/04

US class: 296/187.04 296/187.13 296/189 296/203.02 296/205

Classification Explorer

Cited documents: US5992924 A, US5988733 A, US5941597 A, US5868458 A, US5836641 A, US5803532 A, US5762392 A, US5720510 A, US5660426 A, US5575500 A, US5163730 A, JP939833, JP9039833 A2, JP0840306, JP07304334, DE40116730, DE4011673 A1,

Forward Citations: US9481320, US9365166, US9156431, US8894133, US8517458, US8398157, US7731272, US6923492, US6644725, US6540259, US6478366, US2016039359, US2014117719, US2012049575, US2011140481, US2009167056, US2007063546, US2007046073, US2004176772, US2004080179, FR2883225, CN102092355,

Abstract:
Source: US2001002762A An outer panel 34 is made thinner than an inner panel 33, and a rear face 34c facing a front door 16 is folded so as to form a valley groove 34d hollowed toward the interior of a tube constituted by the outer panel and the inner panel, whereby when a large magnitude of external force is applied to a front face 34a in a rear ward direction, the outer panel 34 is allowed to be deformed more largely than the inner panel 33 to thereby collapse the valley groove 34d, whereby the rearward travel of the rear face 34c can be reduced.

0) EP1145937A2 – VEHICLE WINDOW MEMBER SUPPORT STRUCTURE TRAGSTR...

86) Family number: 15680453 (EP1145937A2) © PatBase

Title: Vehicle window member support structure

Priority: JP20000111260 20000412

Family:

Publication number	Publication date	Application number	Application date
AU200135047 A5	20011018	AU20010035047D	20010406
AU749231 B2	20020620	AU20010035047	20010406
CN1164452 C	20040901	CN20011019025	20010412
CN1317419 A	20011017	CN20011019025	20010412
DE60111671 D1	20050804	DE20016011671	20010411
DE60111671 T2	20060504	DE20016011671T	20010411
EP1145937 A2	20011017	EP20010109031	20010411
EP1145937 A3	20030129	EP20010109031	20010411
EP1145937 B1	20050629	EP20010109031	20010411
JP2001294173 A2	20011023	JP20000111260	20000412
JP4360003 B2	20091111	JP20000111260	20000412
KR100403294 B1	20031030	KR20010019171	20010411
KR20010098501 A	20011108	KR20010019171	20010411

Probable Assignee: TOYOTA MOTOR CORP

Assignee(s):(std)**:** TOYOTA AUTOCAR LTD ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA MOTOR CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA K K TOYOTA

Inventor(s):(std)**:** HAMADA SHIN ; HAMADA SHIN HOSOTANI TOSHIAKI ; HOSOTANI TOSHIAKI ; HOSOYA TOSHIAKI ; MAKOTO HAMADA ; SHIN HAMADA ; TOSHIAKI HAMADA SHIN HOSOTANI ; TOSHIAKI HOSOTANI ; TOSHIAKI HOSOYA ; HAMADA MAKOTO

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

International class (IPC 8–9)**:** B60J1/02 B60R21/04 B62D25/04 B62D25/08 (Advanced/Invention); B62D25/04 B62D25/08 (Advanced/Non–invention); B60J1/02 B60R21/04 B62D25/04 B62D25/08 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00 B60J1/02 B62D25/04 B62D25/08

CPC: B60J1/02 B60R21/04 B60R2021/0435

European class: B60J1/02 B60R21/04 L60R21/04P

Classification Explorer

Cited documents: WO9962755 A1, US6193304 BA, US5791716 A, US5056850 A, US4679845 A, GB2308340 A1, EP0896908 A2, DE19921871 A1, DE10055274 A1,

Forward Citations: WO12027092, WO12027092, WO11160323, WO09016305, WO09016305, US8398157, US8123285, RU2507099, JP5315085, JP4213115, JP2010235013, JP2010188878, JP2009196429, JP2007308015, JP2007308014, JP2007308013, JP2007302073, JP2007055293, JP2006182092, FR2997654, FR2976232, FR2918955, EP1770002, DE102011119105, DE102006015405, CN103144678, CN103025583,

Abstract:
Source: EP1145937A2 An end (20A) to the outside in the vehicle width direction of a windshield glass (20) is supported by an extended portion (32F, 48B) of a pillar outer panel (32, 48) of a front pillar (18) at a position separated from a pillar framework member (26) that bears the strength and rigidity of the front pillar (18). Accordingly, the extended portion (32F, 48B), together with a window member support portion (32G, 32G) supporting the end (20A) to the outside in the vehicle width direction of the windshield glass (20) can deform up to a position at which the portion abuts against the pillar framework member (26).

0) US2003075910A – OCCUPANT ARRESTING DEVICE

87) Family number: 32278027 (US2003075910A) © PatBase

Title: OCCUPANT ARRESTING DEVICE

Priority: JP20000132581 20000501 JP20000157323 20000526 JP20000164019 20000601 WO2001JP03694 20010427 JP20000207302 20000707 JP20010037451 20010214 WO2001JP03695 20010427

Family:

Publication number	Publication date	Application number	Application date
AU2001252632 AA	20011112	AU20010252632	20010427
AU200152631 A5	20011112	AU20010052631	20010427
AU200152632 A5	20011112	AU20010052632	20010427
EP1279571 A1	20030129	EP20010926020	20010427
EP1279571 A4	20080618	EP20010926020	20010427
EP1279572 A1	20030129	EP20010926021	20010427
EP1279572 A4	20080618	EP20010926021	20010427
JP3922025 B1	20070530	JP20010580118	20010427
JP4029616 B1	20080109	JP20010580119	20010427
US2003075910 AA	20030424	US20020257934	20021021
US6893045 BB	20050517	US20020257934	20021021
WO0183272 A1	20011108	WO2001JP03694	20010427
WO0183273 A1	20011108	WO2001JP03695	20010427

Probable Assignee: TOYODA GOSEI CO LTD

Assignee(s):(std)**:** INOUE MICHIO ; OGUCHI SHINJI ; TANASE TOSHINORI ; TOTANI CHIHARU ; TOYODA GOSEI KK

Assignee(s): TOYODA GOSEI CO ; TOYODA GOSEI CO LTD ; TOTANI CHIKARU

Inventor(s):(std)**:** INOUE MICHIO ; OGUCHI SHINJI ; TANASE TOSHINORI ; TOTANI CHIHARU ; TOTANI CHIKARU

Inventor(s): TOSHINORI TANASE ; SHINJI OGUCHI ; MICHIO INOUE ; CHIHARU TOTANI

Agent(s): POSZ LAW GROUP PLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): B60J5/04 B60R13/02 B60R21/00 B60R21/08 B60R21/16 B60R21/20 B60R21/21 B60R21/213 B60R21/231 B60R21/232 B60R21/233 B60R21/237 B60R21/262 B60R22/195 (Advanced/Invention); B60R21/00 B60R22/195 (Advanced/Non–invention); B60R13/02 B60R21/02 B60R21/16 B60R21/20 B60R21/23 (Core/Invention); B60R21/00 B60R22/18 (Core/Non–invention)

International class (IPC 1–7): B60R21/02 B60R21/06 B60R21/08 B60R21/08 B60R21/22

CPC: B60R13/02 B60R21/08 B60R21/21 B60R21/213 B60R21/23138 B60R21/232 B60R22/195 B60R2021/0006 B60R2021/161 B60R2021/23107

European class: B60R13/02 B60R21/08 B60R21/16B2L B60R21/16B2V B60R21/20K B60R21/20M B60R21/21 B60R21/213 B60R21/231L B60R21/232 L60R21/00A2 L60R21/16C L60R21/21 L60R21/213 L60R21/231C L60R21/232 L60R22/195

US class: 280/730.2 280/749 280/753

Classification Explorer

Cited documents: WO9819894 A1, WO9309977 A1, US6135497 A, US5752713 A, US5707075 A, US5480181 A, US5462308 A, US5265903 A, JP8260104 A2, JP8026063 A2, JP5310098

A2, JP2000071927 A2, JP11301399 A2, JP11208410 A2, GB2278812 A1, EP0849129 A1, DE29905770 U1, DE19843111 A1, DE19650940 A1, DE19547494 A1,

Forward Citations: WO06074773, US9783150, US9637081, US9321422, US9126558, US8967661, US7907326, US7416211, US7390017, US7322606, US7318600, US7234727, US7204511, US7201394, US7178827, US7150468, US6793239, US6269305, US2016297395, US2016009246, US2014346758, US2014239620, US2007286035, US2007216144, US2007102126, US2007001441, US2006267316, US2006175814, US2005173901, US2004075252, US2003094796, JP2007022152, FR2932751, EP1630045,

Abstract:
Source: US2003075910A An occupant restraining device (S1) is provided with a shielding member (51F/51R) to be let off from the peripheral edge of a window (WF/WR) of a vehicle so as to shield the window (WF/WR). The occupant restraining device (S1) is further provided with an inflator (82), a cylinder (87) and a piston rod (88) for letting off the shielding member (51F/51R) housed to shield the window (WF/WR). The shielding member (51F/51R) is arranged to substantially rise from the lower edge side (DW) in the peripheral edge of the window (WF/WR). The shielding member (51F/51R) can be smoothly expanded to shield the window (WF/WR) even if the occupant leans against the peripheral edge of the window (WF/WR).

0) US6382705B – VEHICLE INDEPENDENT REAR ACCESS PANEL WITH FOUR...

88) Family number: 22640474 (US6382705B) © PatBase

Title: Vehicle independent rear access panel with four bar hinge

Priority: US20010775198 20010201

Family:

Publication number	Publication date	Application number	Application date
US6382705 BA	20020507	US20010775198	20010201

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS INC

Assignee(s):(std): GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP ; GM GLOBAL TECHNOLOGY OPERATIONS INC ; UNITED STATES DEPARTMENT OF TREASURY ; UAW RETIREE MEDICAL BENEFITS TRUST ; CITICORP USA INC ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED P ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED

Inventor(s):(std): WILKINS PAUL D ; LANG STEVEN CRAIG ; BODNER MICHAEL E

International class (IPC 8–9): B60J5/06 E05D3/06 (Advanced/Invention); E05D15/32 (Advanced/Non–invention)

International class (IPC 1–7): B60J10/08

CPC: B60J5/0479 B60J5/06 E05D3/147 E05D15/32 E05Y2900/531

European class: B60J5/04H5B B60J5/06 E05D3/14V2 P05D15/32 P05Y900/531

US class: 296/146.12 296/155 49/248

Classification Explorer

Cited documents: US6267433 BA, US6250707 BA, US6213535 BA, US6196618 BA, US6183039 BA, US6182952 BA, US6141908 A, US6030024 A, US5971470 A, US5921613 A, US5491875 A, US5435406 A, US5398988 A, US4945677 A, US4738003 A, US4716623 A, US4561690 A, US4383392 A, US3758990 A,

Forward Citations: WO09000541, WO03104005, USD557191, USD555058, US9340234, US9217269, US8893436, US8453298, US8328270, US8152221, US8141297, US7980621, US7950719, US7950109, US7918492, US7896425, US7887118, US7856759, US7832790, US7798557, US7765740, US7717493, US7644976, US7596831, US7429072, US7422267, US7328932, US7320495, US7281753, US7178853, US7104588, US7040687, US6997504, US6974177, US6971706, US6955389, US6857692, US6840567, US6793268, US6779831, US6681448, US6659537, US2016016656, US2015001881, US2013042435, US2012139287, US2012049579, US2011010998, US2010300181, US2010295337, US2010263283, US2010127530, US2009212669, US2009199480, US2009189412, US2009072583, US2009072582, US2009070960, US2009051194, US2009000200, US2008231074, US2008100394, US2008040888, US2007234520, US2007182204, US2007152473, US2007145774, US2007063538, US2007035155, US2006087149, US2006087145, US2006061135, US2006028049, US2005264029, US2005140145, US2005127712, US2004262945, US2004189045, US2004104602, US2004094991, US2004056509, US2004041410, US2002194705, JP4191086, JP4191085, JP4191084, JP2005324592, JP2005324591, JP2005324590, FR2940235, FR2881998, EP2803560, EP2803560, DE102008021266, DE102004007281, DE102004007281, CZ300421, CN106121415, CN105927072, CN105863418, CN104039633, CN104039633,

Abstract:
Source: US6382705B A four bar linkage is configured in non parallelogram form as a hinge for pivotally guiding a closure panel in a predetermined opening motion between a closed position closing an access opening and a fully open position longitudinally adjacent one side edge of the opening and generally parallel with a side of a vehicle or compartment body. In the opening motion, one edge of the panel first moves outward to clear a structural body member at one edge of the opening and another edge of the panel first rotates and moves longitudinally away from the opposite side of the opening as the panel pivots outward and then inward to the fully open position. The closure panel may be paired with a conventionally hinged front door of a vehicle to allow both the door and the panel to be independently opened or closed regardless of the position of the other.

0) US2002073623A – CENTER–MATCHED DOUBLE HINGED DOOR ASSEMBLY FOR ...

89) Family number: 28232582 (US2002073623A) © PatBase

Title: CENTER–MATCHED DOUBLE HINGED DOOR ASSEMBLY FOR VEHICLES

Priority: JP20000379830 20001214

Family:

Publication number	Publication date	Application number	Application date
DE60128882 D1	20070726	DE20016028882	20011128
DE60128882 T2	20080221	DE20016028882T	20011128
EP1215064 A1	20020619	EP20010127494	20011128
EP1215064 B1	20070613	EP20010127494	20011128
JP2002178756 A2	20020626	JP20000379830	20001214
JP4622094 B2	20110202	JP20000379830	20001214
US2002073623 AA	20020620	US20010015277	20011212
US6694676 BB	20040224	US20010015277	20011212

Probable Assignee: MAZDA MOTOR CO

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CO ; MAZDA MOTOR CORP

Inventor(s):(std)**:** FUKUSHIMA YOSHIO ; SAKAMOTO TOSHINORI ; TAGUCHI TOMOO

Designated states: DE ES FR GB IT

International class (IPC 8–9)**:** B60J5/00 B60J5/04 B60R13/06 (Advanced/Invention); B60J5/00 B60J5/04 B60R13/06 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B60J5/04 B60R13/06 E05B65/06 E05C3/06 E05C7/04 E06B3/32

CPC: Y10S292/21 B60J5/0479 Y10T292/1047

European class: B60J5/04H5B

US class: 292/216 292/DIG.21 49/366 49/366P 49/367 49/367S 49/368 49/368S 49/394

Classification Explorer

Cited documents: US6449904 BA, US6332641 BA, US6189265 BA, US6059352 A, US5982126 A, US5800007 A, US5688004 A, US5074073 A, US4930836 A, US4674230 A, US4412695 A, US3832804 A, US3719380 A, US2997336 A, US2311132 A, US2273149 A, JP8142680 A2, JP7010302 U1, JP2000280746, JP2000280744 A2, JP11088672 A2, EP0348034 A2,

Forward Citations: WO11124550, WO09046892, USD785126, USD772999, US9745773, US9140038, US8882163, US8555552, US8484900, US8342592, US8328268, US7845712, US7837243, US7819465, US7784841, US7458621, US7059654, US6979046, US6926340, US6913309, US6877796, US6848737, US6779831, US6659537, US2015102776, US2013134722, US2013069376, US2013047519, US2012313394, US2012153678, US2012091749, US2010156140, US2009282970, US2009096252, US2008143124, US2006249982, US2006192392, US2006006672, US2005156451, US2004201245, US2004174040, US2004119318, US2004104595, US2004056509, JP2012149407, JP2012149406, FR2859137, FR2842143, EP1710107, EP1418076, EP1418075, EP1418074, DE202005005476, DE102012111133, DE102007047205, DE102004013357, CN102910052, CN102910052, CN102770291, CN102767316, CN102767316, CN102555745, CN102555745,

Abstract:
Source: US2002073623A A center–matched double hinged door assembly for a vehicle having a continuous side aperture at each of opposite side of a vehicle body comprises a front door hinged at a rear end to the vehicle body, a rear door hinged at a front end to the vehicle body, and a door lock/unlock mechanism operative to prevent the rear door from opening prior to the front door while the front door remains closed, to allow the rear door to open while the front door remains open and to allow the rear door to close irrespective of whether the front door remains open or closed.

0) US2002083648A – SEAL STRUCTURE OF DOOR MIRROR MOUNTING PORTION ...

90) Family number: 28254264 (US2002083648A) © PatBase

Title: SEAL STRUCTURE OF DOOR MIRROR MOUNTING PORTION

Priority: JP20000402755 20001228

Family:

Publication number	Publication date	Application number	Application date
JP2002200923 A2	20020716	JP20000402755	20001228
JP3608509 B2	20050112	JP20000402755	20001228
US2002083648 AA	20020704	US20010998297	20011203
US6824279 BB	20041130	US20010998297	20011203

Probable Assignee: NISSAN MOTOR CO LTD

Assignee(s):(std)**:** NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NIS N MOTOR CO LTDSA

Inventor(s):(std)**:** SHIGESADA MASAAKI ; WAKAMATSU JUNICHI

Agent(s): MIYOSHI HIDEKAZU

International class (IPC 8–9): B60J10/08 B60J5/04 B60R1/06 B60R13/06 (Advanced/Invention); B60J10/00 B60J5/04 B60R1/06 B60R13/06 (Core/Invention)

International class (IPC 1–7): B60J10/08 B60J5/04 B60R1/06 B60R13/06 E06B7/16 G02B5/08

CPC: B60R1/06

European class: B60R1/06

US class: 359/870 359/871 49/475.1

Classification Explorer

Cited documents: US5651578 A, US4936537 A, JP7084134 A2,

Forward Citations: WO09051174, US9227500, US8979164, US8342702, US7350849, US2015210149, US2010064592, US2006000148, US2005235573, JP5075758, JP4836917, JP2010036767, JP2009096296, JP2008030737, CN102145670, CN102145670,

Abstract:
Source: US2002083648A A seal structure of a door mirror mounting portion according to the present invention is constituted by a mirror base portion mounted to a door panel, a seal member held between the mirror base portion and the door panel, and a weather strip provided in the door panel and sealing between the door panel and a front pillar. A surface of the door panel to which the mirror base is mounted is offset to an inner side of the room from a general surface other than the door mirror mounting portion, and the seal member is extended to a side of the front pillar so as to be brought into contact with the weather strip and close between the mirror base portion and the front pillar. The mirror base does not protrude to a side portion of the vehicle, thereby improving an appearance, and an air stream in the portion becomes smooth at a time of traveling the vehicle, so that it is hard to generate the strong wind noise and the peeling in the end portion of the seal portion.

0) US6447054B – VEHICLE ACCESS SYSTEM

91) Family number: 29982232 (US6447054B) © PatBase

Title: Vehicle access system

Priority: US20000177990P 20000125 US20000655121 20000905

Family:

Publication number	Publication date	Application number	Application date
US6447054 BA	20020910	US20000655121	20000905

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std): GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP ; GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; UAW RETIREE MEDICAL BENEFITS TRUST ; UNITED STATES DEPARTMENT OF TREASURY ; WILMINGTON TRUST CO ; CITICORP USA INC ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED P ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED PARTIES AS ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED PARTIES AS

Inventor(s):(std): PIETRYGA BRAD L ; VAN EDEN LEON F

International class (IPC 8–9): B60J5/04 B60J5/06 E05D3/06 (Advanced/Invention)

International class (IPC 1–7): B60J7/00 B60K37/00 B60N2/00 B60N3/00 B60R27/00

CPC: B60J5/0479 B60J5/06 E05D3/127 E05D3/147 E05Y2900/531

European class: B60J5/04H5B B60J5/06 E05D3/12V2 E05D3/14V2 P05Y900/531

US class: 296/146.1 296/146.12 296/202

Classification Explorer

Cited documents: US6129404 A, US6030025 A, US5871255 A, US5632065 A, US5491875 A, US5398988 A, US5244247 A, US4603900 A, US4561690 A, US4505500 A, US4157846 A, US4135760 A, US4110934 A, US4025104 A, US3074755 A, US3051280 A, FR2700505 A1,

Forward Citations: US9022455, US8646208, US8141297, US7980621, US7950719, US7950109, US7918492, US7896425, US7887118, US7856759, US7798557, US7104588, US7097229, US6997504, US6793268, US6666499, US2015097391, US2012319433, US2011010998, US2010300181, US2010295337, US2010171336, US2010127530, US2009212590, US2009072583, US2009072582, US2009070960, US2009051194, US2008100394, US2006277829, US2006028049, US2005264027, US2005140145,

Abstract:
Source: US6447054B A vehicle access system includes an access opening for the passenger compartment that is closed by a swinging door in combination with an articulating door. The articulating door moves through an arc without angling away from the vehicle body and is supported on a hinge assembly that attaches near the center of the door. An arm assembly guides the door throughout its range of positions and maintain the door in an orientation that is substantially parallel to the vehicle body. When the doors are open, an uninterrupted access opening is provided to the area of the second and third seat rows of the vehicle.

0) US2003030297A – BODY STRUCTURE FOR CONVERTIBLE CAR

92) Family number: 27893144 (US2003030297A) © PatBase

Title: Body structure for convertible car

Priority: JP20010217590 20010718 JP20010217591 20010718 JP20010218907 20010719

Family:

Publication number	Publication date	Application number	Application date
EP1277647 A1	20030122	EP20020015705	20020712
JP2003025941 A2	20030129	JP20010218907	20010719
JP2003026043 A2	20030129	JP20010217590	20010718
JP2003026044 A2	20030129	JP20010217591	20010718
KR20030009155 A	20030129	KR20020041156	20020715
US2003030297 AA	20030213	US20020195307	20020716
US6764124 BB	20040720	US20020195307	20020716

Probable Assignee: MAZDA MOTOR CORP

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP

Inventor(s):(std)**:** IMAOKA NAOHIRO ; ISAO TOHDA ; OHE HARUO ; TOHDA ISAO ; TODA ISAO ; OE HARUO

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

International class (IPC 8–9)**:** B60J1/02 B60J7/12 B60R21/08 B60R21/13 B62D21/15 B62D25/04 B62D29/00 (Advanced/Invention); B62D25/04 (Advanced/Non–invention); B60R21/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/02 B60J7/12 B60R21/08 B60R21/13 B62D21/15 B62D25/04 B62D29/00

CPC: B62D29/002 B60R21/13 B60R2021/132 B60R2021/135 B62D21/15 B62D25/025 B62D25/04

European class: B60R21/13 B62D21/15 B62D25/02B B62D25/04 B62D29/00A1 L60R21/13C L60R21/13C3A

US class: 280/756 296/146.9 296/187.03 296/187.12 296/203.03 296/96.12 296/96.120P

Classification Explorer

Cited documents: US6467834 BA, US6382660 BA, US6378933 BA, US6334366 BA, US6332641 BA, US6302474 BA, US5941597 A, US5584522 A, US5584422 A, US5009463 A, US4900082 A, US4807925 A, US4676524 A, US4651470 A, US4557502 A, US3027186 A, US2620221 A, JPH0717616 U, JP8238932 A2, JP8085344 A2, JP7246839 A2, JP7017616 U1, JP63148580 U1, JP62187667 A2, JP3045421 A2, JP2175322 A2, JP2001026218 A2, JP2001010533 A2, JP2000177629 A2, FR815925 A, FR2815925 A1, EP1193137 A2, EP0189819 A2, DE4438190 C1, DE3502574 C1, DE19838955 A1, DE19648164 A1, DE10016150 A1,

Forward Citations: USD578040, US9776666, US8042860, US7506916, US7328928, US7021658, US2017036701, US2010148535, US2009095555, US2006284443, US2006202498, US2004108701, JP6070583, JP2015131625, JP2013505869, JP2011098685, FR2868373, EP2420413, DE102004010161,

Abstract:
Source: US2003030297A A car body structure for a convertible car that has a folding roof and a transparent windshield covering an front window opening comprises a door opening and closing a door opening in a side body section and a pillar member extending almost vertically from the side body section so as to support each side of the transparent windshield. The pillar member is positioned behind the front window opening so that the transparent windshield extends near besides occupants sitting on a seat of the car.

0) JP2003034195A – SEAL STRUCTURE FOR VEHICULAR DOOR

93) Family number: 28075714 (JP2003034195A) © PatBase

Title: SEAL STRUCTURE FOR VEHICULAR DOOR

Priority: JP20010253686 20010719

Family:

Publication number	Publication date	Application number	Application date
JP2003034195 A2	20030204	JP20010253686	20010719

Probable Assignee: NISHIKAWA RUBBER CO LTD

Assignee(s):(std)**:** NISHIKAWA RUBBER CO LTD

Inventor(s):(std)**:** KOSHIMICHI MASARU

International class (IPC 8–9)**:** B60J10/08 B60R13/06 (Advanced/Invention); B60J10/00 B60R13/06 (Core/Invention)

International class (IPC 1–7)**:** B60J10/08 B60R13/06

Classification Explorer

Forward Citations: JP6192332, JP4558545, JP2014189260, JP2009269526, JP2006248422,

Abstract:
Source: JP2003034195A PROBLEM TO BE SOLVED: To provide a seal structure for a vehicular door capable of preventing water immersion in the door closing of a vehicle without a center pillar. SOLUTION: In this seal structure for the vehicular door, a T–shaped fitting part T is formed by a roof side weather strip installed to a roof side rail 2 in the door opening part of the vehicle without the center pillar and a front weather strip 4 and rear door weather strip 4 elastically brought into contact wherewith when closing the door. An eaves–like lip 6 is integrally provided on the roof side weather strip 3 by molding so as to cover the upper end parts of both corner parts 4a and 5a molded on the upper ends of the front door weather strip 4 and rear weather strip 5 when closing the door.

94) Family number: 30120104 (US2003057737A) © PatBase

Title: STRUCTURAL REINFORCEMENT SYSTEM HAVING MODULAR SEGMENTED CHARACTERISTICS

Priority: EP20020761604 20020909 US20010324497P 20010924 US20020236315 20020606 US20020236315 20020906 US20040839084 20040505 WO2002US28709 20020909

Family:

Publication number	Publication date	Application number	Application date
CA2410764 AA	20030207	CA20022410764	20020909
EP1320481 A1	20030625	EP20020761604	20020909
EP1650112 A2	20060426	EP20060075065	20020909
EP1650112 A3	20070530	EP20060075065	20020909
MXPA03005259 A1	20031006	MX2003PA05259	20020909
US2003057737 AA	20030327	US20020236315	20020906
US2004207233 AA	20041021	US20040839084	20040505
US6786533 BB	20040907	US20020236315	20020906
US6890021 BB	20050510	US20040839084	20040505
WO03026947 A1	20030403	WO2002US28709	20020909

Probable Assignee: ZEPHYROS INC

Assignee(s):(std)**:** L AND L PRODUCTS ; L AND L PRODUCTS INC

Assignee(s): TAKAHASHI KEN ; BOCK LOTHAR ; KEENAN BRENDAN ; L AMP AMP ; L PRODUCTS INC ; ZEPHYROS INC

Inventor(s):(std)**:** BOCK LOTHAR ; BOCK LOTHAR JOSEF ; KEENAN BENDAN ; KEENAN BRENDAN ; TAKAHASHI KEN

Agent(s): BERESKIN AND PARR; DOBRUSIN AND THENNISCH PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

International class (IPC 8–9): B60R13/00 B60R13/08 B62D25/00 B62D29/00 (Advanced/Invention); B62D29/00 (Core/Invention)

International class (IPC 1–7): B60J7/00 B60N2/00 B60R13/00 B60R13/08 B60R21/00 B62D25/00 B62D29/00

CPC: B62D29/002

European class: B62D29/00A1 B62D29/00F

US class: 296/187.02 296/187.12 296/188 296/203.03 5/272.61 5/273.51 52/726.1 52/735.1

Classification Explorer

Cited documents: WO9950057, WO9948746, WO9928575, WO9908854, WO9850221, WO9743501, WO9702967, WO9532110 A1, WO19856255, WO19812288, WO03051676, WO03042024 A1, WO0222387 A1, WO0188033, WO0183206, WO0171225, WO0158379 A1, WO0156845, WO0154936, WO0055444, WO0052086, WO0046461, WO0043254, WO0040815, WO0040629, WO0039232, WO0037554, WO0037302, WO0027920, WO0020483, WO0013958, WO0013876, WO0012595, WO0012571, USH2047 H1, USD457120 S1, US6820923 BA, US6786533 BB, US6777049 BB, US6748667 BB, US6733040 BA, US6729425 BB, US6668457 BA, US6641208 BB, US6634698 BB, US6619727 BA, US6607238 BB, US6575526 BB, US6573309 BA, US6561571 BA, US6546693 BB, US6523884 BB, US6523857 BA, US6519854 BB, US6502821 BB, US6494525 BA, US6491336 BA, US6482496 BA, US6482486 BA, US6475577 BA, US6474723 BB, US6474722 BB, US6471285 BA, US6467834 BA, US6455146 BA, US6435601 BB, US6435601 BA, US6435601 B2, US6422575 BA, US6419305 BA, US6413611 BA, US6406078 BA, US6389775 BA, US6383610 BA, US6382635 BA, US6372334 BA, US6368438 BA, US6358584 BA, US6357819 BA, US6348513 BA,

US6341467 BA, US6332731 BA, US6321793 BA, US6319964 BA, US6315938 BA, US6311452 BA, US6305136 BA, US6303672 BA, US6296298 BA, US6287666 BA, US6281260 BA, US6276105 BA, US6272809 BA, US6270600 BA, US6267436 BA, US6263635 BA, US6253524 BA, US6247287 BA, US6237304 BA, US6233826 BA, US6232433 BA, US6207244 BA, US6199940 BA, US6196621 BA, US6189953 BA, US6168226 BA, US6168226 B1, US6165588 A, US6150428 A, US6149227 A, US6135541 A, US6131897 A, US6103784 A, US6103341 A, US6099948 A, US6096403 A, US6092864 A, US6079180 A, US6068424 A, US6059342 A, US6058673 A, US6033300 A, US6006484 A, US6003274 A, US5992923 A, US5985435 A, US5932680 A, US5894071 A, US5888600 A, US5884960 A, US5766719 A, US5755486 A, US5725272 A, US5660116 A, US5631027 A, US5575526 A, US5506025 A, US5373027 A, US5358397 A, US5288538 A, US5266133 A, US5124186 A, US4995545 A, US4984406 A, US4978562 A, US4923902 A, US4922596 A, US4908930 A, US4901500 A, US4861097 A, US4853270 A, US4836516 A, US4822011 A, US4813690 A, US4769391 A, US4751249 A, US4732806 A, US4695343 A, US4610836 A, US4463870 A, US2047 H1, US2004135058 AA, US2004079478 AA, US2004011282 AA, US2003069335 AA, US2003050352 AA, US2003039792 AA, US2003001469 AA, US2002164450 AA, US2002074827 AA, US2002053179 AA, US2002033617 AA, US2001020794 AA, JP58194666 A2, JP2002362412 A2, JP2002120250 A2, JP2001199362 A2, JP2001191949 A2, JP2001088739 A2, JP2001062833 A2, JP10053156, GB2401349 A1, GB2375328 A1, GB2083162 A1, FR2749263, EP1440867 A1, EP1428744, EP1362769 A1, EP1362683 A2, EP1122156 A2, EP1006022 B1, EP1006022, EP1006002 A2, EP0893332 B1, EP0893332 A1, EP0893331 A1, EP0891918 A1, EP0697956 B1, EP0697956, EP0679501 A1, EP0611778 A3, EP0611778, EP0414302 A1, DE19858903 A1, DE19856255 C1, DE19812288 C1,

Forward Citations: WO10014681, WO07004184, WO06059049, USD778715, USD752952, USD751887, US9782950, US9776368, US9764769, US9713885, US9394468, US9352505, US9340237, US9303670, US9194408, US9187131, US9162707, US9150001, US9016973, US9010843, US8998296, US8967327, US8966766, US8931827, US8931173, US8808478, US8777159, US8763254, US8752884, US8741094, US8707534, US8702161, US8696051, US8689516, US8672601, US8671573, US8668046, US8580058, US8530015, US8459675, US8430449, US8430448, US8413566, US8381403, US8356859, US8293360, US8215704, US8181327, US8133929, US8128780, US8105460, US8079146, US8029222, US8020924, US8002332, US7984919, US7941925, US7926867, US7926179, US7790280, US7784186, US7735906, US7695040, US7641264, US7513564, US7503620, US7494179, US7479246, US7478478, US7469459, US7374219, US7318873, US7313865, US7296847, US7290828, US7275781, US7255388, US7249415, US7169344, US7160491, US7144071, US7125461, US7114763, US7111899, US7105112, US7077460, US7041193, US7025409, US7004536, US6969551, US6966602, US6953219, US6941719, US6938947, US6935681, US6932421, US6928736, US6923499, US6921130, US6920693, US6905745, US6890021, US6883858, US6880657, US6863338, US6777049, US6729425, US2016229457, US2016046327, US2015210319, US2015197289, US2015048654, US2014237941, US2014049070, US2013088045, US2013088044, US2012280534, US2012060352, US2012001024, US2012000061, US2011241383, US2011192675, US2011192015, US2011104413, US2011098372, US2011079136, US2010289242, US2010257738, US2010117397, US2010028651, US2010021267, US2009258217, US2009214820, US2009202294, US2009167054, US2009108626, US2009102233, US2009096251, US2009091157, US2009085379, US2009001758, US2008238118, US2008217960, US2008202674, US2008174095, US2008143143, US2007257515, US2007246970, US2007092685, US2007090666, US2007089829, US2007080559, US2007074808, US2007045866, US2007034432, US2007018483, US2006267378, US2006189703, US2006165969, US2006144513, US2006113805, US2006090343, US2006070320, US2006065483, US2006061115, US2006057333, US2006021697, US2006008615, US2005276970, US2005268454, US2005251988, US2005218697, US2005212332, US2005212326, US2005194706, US2005172486, US2005166532, US2005127145, US2005102815, US2005082111, US2005081383, US2005040671, US2005035628, US2005017543, US2005016807, US2005012280, US2004262853, US2004256888, US2004227377, US2004224108, US2004221953, US2004217627, US2004212220, US2004207233, US2004164588, US2004159481, US2004143969, US2004130185, US2004124666, US2004124553, US2004112531, US2004104598, US2004075299, US2004046423, US2004046421, US2004036317, US2004034982, US2004018353, US2004018341, US2003218019, US2003209921, US2003201572, US2003184121, US2003183317, FR2930509, FR2878809, EP2315692, EP2315692, EP2113447, DE102008006204, DE102008006204, DE102008006203, DE102008006203, DE102004048504,

Abstract:
Source: US2003057737A A modular segmented structural reinforcement system for use with closed forms or cavities defined with automotive vehicles having a plurality of modular segments designed to be secured within a defined portion of an automotive vehicle applications. An expandable or bonding material, such as an

epoxy−based reinforcing foam or other sound absorption, damping, vibration reduction, or sealing material is disposed on at least a portion of the outer surface of each of the plurality of segments. Once the system is flexible fitted within the closed form or placed within a selected cavity of an automotive vehicle, the material expands and cures during an automobile assembly operation, bonding the reinforcement system to the segments. As a result, the reinforcement system provides enhanced load distribution over the vehicle frame without adding excessive weight and further serves to reduce noise and vibrational characteristics of the automotive vehicle.

0) US2003107237A – DOOR ARRANGEMENT FOR MOTOR VEHICLES

95) Family number: 28913057 (US2003107237A) © PatBase

Title: DOOR ARRANGEMENT FOR MOTOR VEHICLES

Priority: DE20011055220 20011109

Family:

Publication number	Publication date	Application number	Application date
DE10155220 C1	20030213	DE20011055220	20011109
EP1310621 A2	20030514	EP20020023101	20021015
EP1310621 A3	20061220	EP20020023101	20021015
JP2003211962 A2	20030730	JP20020326082	20021108
JP3663402 B2	20050622	JP20020326082	20021108
US2003107237 AA	20030612	US20020290446	20021108

Probable Assignee: DAIMLERCHRYSLER AG

Assignee(s):(std)**:** DAIMLER CHRYSLER AG

Assignee(s): DAIMLERCHRYSLER AG ; DYRBALLA MICHAEL ; WENDLER ROLAND ; BRODT MARTIN ; DAIMLER AG

Inventor(s):(std)**:** BRODT MARTIN ; DYRBALLA MICHAEL ; WENDLER ROLAND

Agent(s): AKAZAWA HIDEO

Designated states: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

International class (IPC 8–9)**:** B60J5/04 E05B65/20 E05D3/06 E05F15/04 E05F17/00 (Advanced/Invention); B60J5/04 E05B65/20 E05D3/00 E05F15/00 E05F17/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B60J5/04 E05B65/20 E05D15/58 E05D3/06 E05F17/00

CPC: E05D3/127 B60J5/0479 E05Y2900/531

European class: B60J5/04H5B E05D3/06C4B E05D3/12V2 E05F15/04B P05Y900/531

US class: 296/146.12 296/146.120P

Classification Explorer

Cited documents: US6305737 BA, JP5112130, JP05112130, FR2634426 A1, DE4403126 A1, DE19754417 C2, DE19754417 A1,

Forward Citations: US7000977, US6913308, US2012049579, US2007152473, US2005082871, KR101035119, GB2410980, GB2410980, EP2985161, DE10361831, DE10341420, DE10341420, DE102016013298, DE102004050229, CN105863418, CN102383683,

Abstract:
Source: US2003107237A A door arrangement for a motor vehicle has a pivotable door and at least one hinge via which the door is articulated on one of its narrow sides on bodywork. Movement of the door between its open and closed positions proceeds, under automatic control, about two axes of rotation running approximately parallel through the hinge. During opening of the door, in a first movement stage, the hinge–side end region of the door is guided in a pivoting/sliding manner out of the door opening and the lock–side end region of the door is guided in a pivoting/sliding manner by guide elements along the door opening into a release position. Thereafter, the axis of rotation moved together with the door is shifted out of the door opening, and the door can be pivoted exclusively about the shifted axis of rotation in a second movement stage.

0) US2005035630A – LATERAL WALL MODULE FOR THE BODY OF A MOTOR VEH...

96) Family number: 28471292 (US2005035630A) © PatBase

Title: LATERAL WALL MODULE FOR THE BODY OF A MOTOR VEHICLE

Priority: DE20011051684 20011019 US20040492842 20041008 US20060325509 20060105 WO2002EP09733 20020830

Family:

Publication number	Publication date	Application number	Application date
DE10151684 A1	20030508	DE20011051684	20011019
DE10151684 B4	20051006	DE20011051684	20011019
EP1436188 A1	20040714	EP20020772250	20020830
JP2005506246 T2	20050303	JP20030537981T	20020830
JP3924790 B2	20070606	JP20030537981T	20020830
KR20040044548 A	20040528	KR20047005348	20020830
US2005035630 AA	20050217	US20040492842	20041008
US2006107528 AA	20060525	US20060325509	20060105
US7032959 BB	20060425	US20040492842	20041008
WO03035453 A1	20030501	WO2002EP09733	20020830

Probable Assignee: DAIMLER AG

Assignee(s):(std)**:** DAIMLER CHRYSLER AG ; GUTJAHR LUTZ ; ROHLFS ARNOLD ; SCHURER KARLHEINZ ; WOLLENSAK KARL ; BERSTECHER UWE

Assignee(s): DAIMLER AG ; DAIMLERCHRYLER AG ; DAIMLERCHRYLER EPPLESTRASSE AG ; DAIMLERCHRYSLER AG

Inventor(s):(std)**:** BERSTECHER UWE ; GUTJAHR LUTZ ; ROHLFS ARNOLD ; SCHURER KARLHEINZ ; WOLLENSAK KARL

Agent(s): CROWELL AND MORING LLP INTELLECTUAL PROPERTY GROUP; CROWELL AND MORING LLP, INTELLECTUAL PROPERTY GROUP; CROWELL AND MORING LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT JP KR LI LU MC NL PT SE SK TR US

International class (IPC 8–9)**:** B21D53/88 B23Q3/00 B60J7/00 B62D25/02 B62D25/04 B62D25/06 B62D25/20 (Advanced/Invention); B62D25/02 (Advanced/Non–invention); B21D53/00 B23Q3/00 B60J7/00 B62D25/00 B62D25/04 B62D25/06 B62D25/20 (Core/Invention)

International class (IPC 1–7)**:** B60J1/08 B62D25/02 B62D25/04 B62D25/06 B62D25/20

CPC: Y10T29/49622 Y10T29/49895 Y10T29/49899 B62D25/04 B62D25/02

European class: B62D25/02 B62D25/04

US class: 29/464 29/466 29/897.2 296/193.05 296/203.03

Classification Explorer

Cited documents: US6722729 BB, US6722729 BA, US6722729 B1, US6709045 BB, US6709045 BA, US6709045 B1, US6464290 BB, US6464290 BA, US6464290 B1, US6390539 BB, US6390539 BA, US6390539 B1, US6254172 BA, US6073992 A, US5938275 A, US5836641 A, US5785378 A, US5246264 A, US4960974 A, US3724153 A, US3541668 A, US2003102697 AA, US2002043821 AA, LU34850 A, EP1024073 A1, DE19531874 C1, DE10001316 A1,

Forward Citations: US9713980, US9630653, US9248862, US9187135, US9045169, US8967704, US8740290, US8282154, US2014077529, US2013234473, US2010270830, US2008143147, US2005189790, US2005060869, JP2013513513, FR2889503, EP2535242, EP2509848, DE102015112505, DE102014113695, DE102014106207, DE102014103147, DE102012016496, DE102006014962, CN104384321, CN102756034, CN102756034,

Abstract:
Source: US2005035630A The invention relates to a lateral wall module for the body of a motor vehicle and to a method for its production. The lateral wall module extends to the rear in the longitudinal direction of the vehicle at least from an A−pillar as far as a rear wheel mounting, and has a lateral wall structure and also a lateral wall panel connected to the latter, the lateral wall structure, for its part, being constructed from an inner part and a wall part, which is fastened on the outside of the inner part and integrally reinforces the lateral wall module, and is at least partially designed in the sill region in such a manner that it complements the lateral wall panel there. In order to use the lateral wall module in a simple manner for a convertible or a coupe, it is proposed that the lateral wall panel is designed as a single−component pressed part which extends from the rear wheel mounting, firstly, over the lateral roof frame and the A−pillar as far as the front wall pillar and, secondly, over a sideboard as far as the box−section pillar, that the box−section pillar of the lateral wall module runs as far as the upper edge of the sideboard, and that the lateral wall panel and the lateral wall structure are designed in profile form in the manner of an open loop, the openings of the loops facing each other in the assembled state.

0) US2003121210A – STRUCTURE OF MOLDING PART OF A WEATHER STRIP FO...

97) Family number: 28706289 (US2003121210A) © PatBase

Title: STRUCTURE OF MOLDING PART OF A WEATHER STRIP FOR USE IN A SLIDE TYPE REAR DOOR

Priority: JP20010359157 20011126

Family:

Publication number	Publication date	Application number	Application date
JP2003159948 A2	20030603	JP20010359157	20011126
US2003121210 AA	20030703	US20020302810	20021122
US6810624 BB	20041102	US20020302810	20021122

Probable Assignee: NISHIKAWA RUBBER CO LTD

Assignee(s):(std)**:** KANTO JIDOSHA KOGYO KK ; MATSUDA YUKIHISA ; NAKAGAWA ISAO ; FUJIMURA YOSHIO ; ITOU YOSHIO ; NISHIKAWA RUBBER CO LTD

Assignee(s): KANTO AUTO WORKS LTD ; NISHIKAWA RUBBER CO

Inventor(s):(std)**:** FUJIMURA YOSHIO ; ITO YOSHIO ; ITOU YOSHIO ; MATSUDA YUKIHISA ; MATSUDA YUKIO ; NAKAGAWA ISAO

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60J10/08 E06B7/16

CPC: B60J10/80

European class: B60J10/08

US class: 296/146.9 49/475.1 49/479.1 49/484.1 49/495.1

Classification Explorer

Cited documents: US6243990 BA, US6138415 A, US5527583 A, US4892348 A, US4720138 A, US4277099 A, EP0390238 A1,

Forward Citations: US9573451, US9421852, US8215700, US7578098, US7073294, US2016355146, US2015231954, US2006042170, US2004216384, US2004163321,

Abstract:
Source: US2003121210A There is provided a structure of a molding part of a weather strip for use in a rear door by firmly attaching the molding part in the rear door so as to reduce weight and manufacturing costs and ensures sufficient sealing property. The molding part is attached to a recess together with a slide arm 4. The recess is formed at the front lower end of the rear door. The molding part comprises merely a plate insert except sealing function parts. The sealing function parts elastically contact a car body side. The plate insert is fixed to the rear door by bolts and nuts.

0) US2004026956A – DOOR FOR AN OPERATOR'S CAB ON AN AGRICULTURAL T...

98) Family number: 23203991 (US2004026956A) © PatBase

Title: DOOR FOR AN OPERATOR'S CAB ON AN AGRICULTURAL TRACTOR

Priority: EP20030100053 20030114 EP20100158132 20030114 GB20020002433 20020202

Family:

Publication number	Publication date	Application number	Application date
AT531546 E	20111115	AT20030158132T	20030114
AT535410 E	20111215	AT20030100053T	20030114
DE60339031 D1	20111229	DE20036039031	20030114
DE60339252 D1	20120301	DE20036039252	20030114
EP1332901 A2	20030806	EP20030100053	20030114
EP1332901 A3	20080813	EP20030100053	20030114
EP1332901 B1	20111130	EP20030100053	20030114
EP2202109 A1	20100630	EP20100158132	20030114
EP2202109 B1	20111102	EP20100158132	20030114
GB200202433 A0	20020320	GB20020002433	20020202
GB2384819 A1	20030806	GB20020002433	20020202
US2004026956 AA	20040212	US20030348523	20030121
US6811209 BB	20041102	US20030348523	20030121

Probable Assignee: BLUE LEAF IP INC

Assignee(s):(std): CNH U K LTD ; NEW HOLLAND UK LTD ; NEW HOLLAND ; WOOLLETT NICHOLAS ANDREW ; SCOTTI ALESSANDRO ; NEW HOLLAND NORTH AMERICA INC ; CNH UK LTD

Assignee(s): NEW HOLLAND UK LIMITED ; CNH UK LTD BASILDON ; BLUE LEAF IP ; BLUE LEAF IP INC ; CNH AMERICA LLC ; CNH U K LIMITED

Inventor(s):(std): SCOTTI ALESSANDRO ; SCOTTI ALLESSANDRO ; WOOLLETT NICHOLAS ANDREW

Inventor(s): WOOLLETT NICHOLAS ANDREW CHELMSFORD ; ALESSANDRO SCOTTI ; NICHOLAS ANDREW WOOLLETT

Agent(s): PATENTANWAELTE WALLACH KOCH DR HAIBACH FELDKAMP; VANDENBROUCKE ALBERIC ET AL; CNH IP DEPARTMENT

Designated states: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

International class (IPC 8–9): B60J5/00 B60J5/04 B62D33/06 (Advanced/Invention); B60J5/00 B60J5/04 B62D33/06 (Core/Invention)

International class (IPC 1–7): B60J5/00 B60J5/04

CPC: B60J5/0487 B62D33/0617

European class: B60J5/04 B60J5/04K2 B62D33/06E

US class: 296/146.1 296/146.11 296/146.2 296/146.6 296/190.11

Classification Explorer

Cited documents: US6669272 BB, US6279988 BA, US6247746 BA, US6175991 BA, US6149228 A, US5873612 A, US5125716 A, US5076637 A, JP9136543 A2, JP7132734 A2, JP6278455 A2, JP11034658 A2, JP11005446 A2, EP0842842 A2,

Forward Citations: USD551257, US9038243, US8910981, US8672338, US7938479, US7677648, US7614117, US7100245, US7100245, US7097237, US2013192026, US2012292922, US2012267916, US2010264696, US2009195026, US2009012216, US2007245522, US2005204511, US2005012361, US2004262949, EP3090928, EP2650438,

Abstract:
Source: US2004026956A A door for the operator's cab on an agricultural tractor is formed from a frameless single

pane of transparent material pivoted at one edge on a pillar of the tractor. The pivot is formed of two hinges affixed to the pane and a reinforcing member extending generally parallel to the pivot axis and interconnecting the wings of the hinges that are affixed to the pane. The reinforcing member is arranged in line with the pillar on which the door is mounted, when viewed from the position of the driver of the vehicle, so as to minimize obstruction of the field of view of the driver. In another aspect of the invention, the surfaces on the hinges that mate with the pane are machined to match the contours of the pane while the reinforcing member and the hinges are in one piece.

0) US2003177700A – WEATHER STRIP FOR A SLIDING TYPE REAR DOOR

99) Family number: 29032240 (US2003177700A) © PatBase

Title: WEATHER STRIP FOR A SLIDING TYPE REAR DOOR

Priority: JP20020075700 20020319

Family:

Publication number	Publication date	Application number	Application date
DE60310468 D1	20070201	DE20036010468	20030314
DE60310468 T2	20070510	DE20036010468T	20030314
EP1346864 A1	20030924	EP20030005834	20030314
EP1346864 B1	20061220	EP20030005834	20030314
JP2003267061 A2	20030925	JP20020075700	20020319
JP3861225 B2	20061220	JP20020075700	20020319
KR100946447 B1	20100310	KR20030016719	20030318
KR20030076325 A	20030926	KR20030016719	20030318
US2003177700 AA	20030925	US20030387639	20030313
US6751908 BB	20040622	US20030387639	20030313

Probable Assignee: TOYOTA MOTOR EAST JAPAN INC

Assignee(s):(std): KANTO JIDOSHA KOGYO KK ; NISHIKAWA RUBBER CO LTD ; NAKAI HIROFUMI ; MATSUDA YUKIHISA ; OTSUKA SUSUMU ; TOYOTA MOTOR CORP ; FUJIMURA YOSHIO ; ITOU YOSHIO

Assignee(s): KANTO AUTO WORKS LTD ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA MOTOR EAST JAPAN INC ; NISHIKAWA RUBBER CO

Inventor(s):(std): FUJIMURA YOSHIO ; ITOU YOSHIO ; MATSUDA YUKIHISA ; NAKAI HIROFUMI ; OTSUKA SUSUMU ; MATSUDA YUKIO ; ITO YOSHIO

Designated states: DE FR GB

International class (IPC 8–9): B60J10/00 B60J10/08 (Advanced/Invention); B60J10/08 (Advanced/Non–invention); B60J10/00 (Core/Invention)

International class (IPC 1–7): B60J10/00 B60J10/08 E06B7/16

CPC: B60J10/80 B60J10/40

European class: B60J10/00J B60J10/08

US class: 49/475.1 49/479.1

Classification Explorer

Cited documents: US5639533 A, US5566510 A, US4979333 A, US4492405 A, JP7009628 U1, JP59014519 A2, JP59004312 U1, JP59004312 U, JP58188319 U1, JP58188319 U, JP58110335 A2, JP58110335, GB1424942 A,

Forward Citations: US7073294, US2004163321, EP3072722,

Abstract:
Source: US2003177700A A weather strip for a sliding type rear door is applied to a car which is unfurnished with a center pillar, and is furnished with a front door turnable about hinges provided at the front end thereof and with a sliding rear door which slides back and forth. The weather strip is attached to the front end of the rear door and includes a tapered lip portion extending toward the front door. The tapered lip portion is formed on a molded portion of the weather strip formed at the upper end portion thereof. The tapered portion elastically contacts an opening seal attached to a roof side of a car body and a weather strip attached to a rear end of the front door when the rear door is closed. A guide portion is formed at the lower half of the lip portion. The guide portion is thicker than the lip portion, and it contacts the opening seal and the front door weather strip immediately before the tip end of the tapered lip portion contacts the opening seal and the front door weather strip. Thus, the tip end of the lip portion is prevented from being reversed or curled up when the rear door is closed.

0) US2003205918A – MODULAR VEHICULAR WINDOW SEAL ASSEMBLY

100) Family number: 29540950 (US2003205918A) © PatBase

Title: MODULAR VEHICULAR WINDOW SEAL ASSEMBLY

Priority: US20020136230 20020501 WO2003US13232 20030429

Family:

Publication number	Publication date	Application number	Application date
AU2003225204 AA	20031117	AU20030225204	20030429
DE60303445 D1	20060413	DE20036003445	20030429
EP1499512 A2	20050126	EP20030721920	20030429
EP1499512 B1	20060201	EP20030721920	20030429
US2003205918 AA	20031106	US20020136230	20020501
US6817651 BB	20041116	US20020136230	20020501
WO03093044 A2	20031113	WO2003US13232	20030429
WO03093044 A3	20040205	WO2003US13232	20030429

Probable Assignee: SCHLEGEL CORP

Assignee(s):(std)**:** CARVALHO DARREL B ; KONITSNEY WILLIAM J ; RIGBY JOHN A ; SCHLEGEL CORP ; ZWOLINSKI DAVID T

Assignee(s): SCHLEGEL CORP NEW YORK ; ROYAL BANK OF SCOTLAND PLC AS SECURITY AGENT ; ROYAL BANK OF SCOTLAND PLC SECURITY AGENT AS ; METZELER AUTOMOTIVE PROFILE SYSTEMS IOWA INC ; METZELER AUTOMOTIVE PROFILE SYSTEMS NORTH CAROLINA ; METZELER AUTOMOTIVE PROFILE SYSTEMS NORTH CAROLINA INC ; METZELER AUTOMOTIVE PROFILE SYSTEMS OKLAHOMA INC ; BANK OF AMERICA N A

Inventor(s):(std)**:** CARVALHO DARREL B ; KONITSNEY WILLIAM J ; RIGBY A JOHN ; RIGBY JOHN A ; ZWOLINSKI DAVID T ; ZWOLINSKI T ; RIGBY A ; KONITSNEY J ; CARVALHO B

Inventor(s): WILLIAM J KONITSNEY ; DARREL B CARVALHO ; DAVID T ZWOLINSKI ; JOHN A RIGBY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J10/00 B60J10/04 (Advanced/Invention); B60J10/00 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J10/00 B60J10/02 B60J10/04 B62D25/02

CPC: B60J10/78 B60J10/16 B60J10/235 B60J10/70 B60J10/75 B60J10/76

European class: B60J10/00C2 B60J10/00D3 B60J10/02 B60J10/04B B60J10/04D B60J10/04D3

US class: 296/146.15 296/146.2 296/203.03 296/203.030P

Classification Explorer

Cited documents: US6319344 BA, US6299235 BA, US6293616 BA, US6279987 BA, US6260905 BA, US6247746 BA, US6189198 BA, US6082048 A, US6070364 A, US6068719 A, US6023888 A, US5915780 A, US5853895 A, US5846463 A, US5779956 A, US5702148 A, US5566510 A, US5557890 A, US5538777 A, US5503700 A, US5396733 A, US5343609 A, US5317835 A, US5027556 A, US5010689 A, US5007202 A, US4800681 A, US4761916 A, US4357781 A, US4119325 A, JP61220919 A2, JP361220919, GB2302558 A1, GB2074639 A1, EP0587428 A1, EP0526327 A1, DE3821457 A1, DE19632843 C1,

Forward Citations: WO15120395, WO11068532, WO09150372, WO09150372, WO06055911, WO06055465, WO06055465, WO05103426, WO05037587, WO04108458, US9493061, US9475374, US9475372, US9132859, US9114693, US9061574, US9027284, US8978306, US8919846, US8661736, US8479449, US8408344, US8333423, US8328975, US8141297, US8128143, US8042859, US7980621, US7950719, US7950109, US7918492, US7896425, US7887118, US7874104, US7856759, US7798557,

US7763197, US7448670, US7356967, US2014109485, US2013313863, US2012274102, US2012167473, US2012144751, US2012060422, US2011239410, US2011126473, US2011109009, US2011030282, US2011010998, US2010300181, US2010295337, US2010171336, US2010127530, US2010001550, US2009174108, US2009121517, US2009072583, US2009072582, US2009070960, US2009064594, US2009051194, US2009038232, US2008282617, US2008238134, US2008191517, US2007169417, US2007101656, US2006152035, US2006103047, US2006005469, GB2421044, FR2932548, EP2463133, EP1862343, DE202010013082,

Abstract:
Source: US2003205918A A vehicle window seal assembly includes a division bar formed without structural metal and including one of an insert or an overlay layer of a relatively soft material. The division bar can be formed in an H configuration having an elastic hinge between a leg of the H profile and a cross piece. The division bar can also be formed to receive and engage the insert to locate sealing lips for contacting a moveable glass panel.

0) US2004006923A – CLIP FOR SASH MOLDING OF VEHICLE DOOR

101) Family number: 30256888 (US2004006923A) © PatBase

Title: CLIP FOR SASH MOLDING OF VEHICLE DOOR

Priority: JP20020195938 20020704

Family:

Publication number	Publication date	Application number	Application date
CN1294034 C	20070110	CN20031027786	20030704
CN1486869 A	20040407	CN20031027786	20030704
JP2004034856 A2	20040205	JP20020195938	20020704
JP4037191 B2	20080123	JP20020195938	20020704
US2004006923 AA	20040115	US20030611148	20030702
US7055291 BB	20060606	US20030611148	20030702

Probable Assignee: NEWFREY LLC

Assignee(s):(std)**:** NEWFREY LLC ; NIPPON POP RIVETS AND FASTENERS ; NUFELE INC ; SANKEI GIKEN KOGYO CO LTD

Assignee(s): SANKEI GIKEN KOGYO CO ; NIPPON POP RIVETS AND FASTENERS LTD

Inventor(s):(std)**:** HIDEAK NAKANISHI HIDEAKI YAMAN ; HIDEAK SUGIMOTO ; HIDEAKI NAKANISHI ; NAKANISHI HIDEAKI ; SUGIMOTO HIDEAK ; SUGIMOTO HIDEAKI ; TAKA YAMANAKA ; YAMANAKA TAKA ; YAMANAKA TAKASHI

Inventor(s): NAKANISHI HIDEAKI YAMANAKA TAKA SUGIMOTO HIDEAK

Agent(s): MILES AND STOCKBRIDGE PC

International class (IPC 8–9): B60J1/00 B60J5/04 B60R13/04 B62D39/00 (Advanced/Invention); E05F11/38 (Advanced/Non–invention); B60J1/00 B60J5/04 B60R13/04 B62D39/00 (Core/Invention); E05F11/38 (Core/Non–invention)

International class (IPC 1–7): B60J1/00 B60J5/04 B60R13/04 E05F11/38

CPC: B60J5/0402 B60R13/04 E05F11/382 E05Y2900/55 B60J10/21

European class: B60J5/04B2 B60R13/04 P05F11/38B P05Y900/550

US class: 296/1.08 296/10.8 49/374 49/374S 49/377 49/502 49/502P 52/716.5 52/718.06

Classification Explorer

Cited documents: US6416113 BA, US5964496 A, US5820198 A, US5671565 A, US5519968 A, US5433038 A, US5275455 A, US5186509 A, US4911349 A, US4860494 A, US4830898 A, US4508382 A, US4463539 A, US4442634 A, US4421802 A, US4348046 A, US3680903 A, US2961723 A, US2786249 A, US2002096912 AA, JP8300953 A2, JP7186724 A2, JP3051616 A2,

Forward Citations: WO16143990, US9091114, US9038318, US8740276, US8631609, US8572897, US8388039, US8371069, US8317248, US8226143, US8181397, US8001727, US7707777, US7458185, US7407205, US7210730, US2014007511, US2013174492, US2013097962, US2011006556, US2010313487, US2010263294, US2010181798, US2010011670, US2009267373, US2009183435, US2009025300, US2007278830, US2005223648, US2005198908, US2005189782, KR101720905, KR101559697, JP5432544, JP2016147520, JP2010195064, EP2272718, EP2088034, EP1764269, EP1764269, EP1759927, EP1584517, EP1584517, CN103112405, CN103112405,

Abstract:
Source: US2004006923A A clip for a sash molding comprises an elongated end cap adapted to be inserted into an end portion of the sash molding, a fastener adapted to be fixed to a door pillar, and a lip for filling a gap between the sash molding and the door pillar. The fastener and the end cap are made of hard plastic material, and are integrally molded to one another. The lip is made of soft plastic material, and is integrally connected to the end cap in a predetermined configuration, by pouring the soft plastic material in its molten state onto a predetermined region of the end cap and solidifying the soft plastic material thereon. The clip may also include a cover portion, made of a soft plastic material, that continuously extends from the lip and is integrally connected to an end of the end cap.

0) US2004119318A – VEHICLE SIDE–DOOR STRUCTURE

102) Family number: 30454685 (US2004119318A) © PatBase

Title: VEHICLE SIDE–DOOR STRUCTURE

Priority: JP20020288219 20021001 JP20090021534 20090202

Family:

Publication number	Publication date	Application number	Application date
CN100363196 C	20080123	CN20031027203	20030929
CN1496874 A	20040519	CN20031027203	20030929
DE60317985 D1	20080124	DE20036017985	20031001
DE60317985 T2	20080626	DE20036017985T	20031001
EP1405746 A2	20040407	EP20030022283	20031001
EP1405746 A3	20040519	EP20030022283	20031001
EP1405746 B1	20071212	EP20030022283	20031001
JP2004122873 A2	20040422	JP20020288219	20021001
JP2009090980 A2	20090430	JP20090021534	20090202
JP4385582 B2	20091216	JP20020288219	20021001
JP4924628 B2	20120425	JP20090021534	20090202
US2004119318 AA	20040624	US20030674799	20031001
US6926340 BB	20050809	US20030674799	20031001

Probable Assignee: MAZDA MOTOR CORP

Assignee(s):(std)**:** MAZDA MOTOR ; MAZDA MOTOR CORP

Inventor(s):(std)**:** MORIYAMA SACHIHIRO ; MORIYAMA YUKIHIRO ; SACHIHIRO MORIYAMA

Agent(s): NIXON PEABODY LLP; STUDEBAKER DONALD R; DONALD R

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

International class (IPC 8–9)**:** B60J5/00 B60J5/04 (Advanced/Invention); B60J5/00 B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B60J5/04

CPC: B60J5/0425 B60J5/0429 B60J5/043 B60J5/0433 B60J5/0479

European class: B60J5/04E2B10 B60J5/04E2B14 B60J5/04E2B2 B60J5/04E2B7 B60J5/04H5B

US class: 296/146.6 296/146.600P 296/146.9

Classification Explorer

Cited documents: US6808225 BB, US6779831 BB, US6694676 BB, US6659537 BB, US6619729 BB, US6332641 BA, US6059352 A, US5782523 A, US5749611 A, US5364157 A, US4930836 A, US2997336 A, US2827321 A, US2004080179 AA, US2003006625 AA, JPS5741209, JP57041209 A2, JP2001138864 A2, JP2001138742 A2, JP2001026218 A2, JP2000280744 A2, JP2000280744, JP13138864, EP1275539 A1, EP1068970 A1, DE10119131 A1,

Forward Citations: WO16113475, WO08017774, US8960768, US8042860, US7717496, US7458621, US7441826, US7364218, US7311169, US7198315, US7131685, US2016257186, US2013328352, US2012151843, US2010229470, US2010148535, US2008164716, US2008061600, US2007222256, US2006220415, US2006214468, US2006061134, US2006006672, JP5737172, JP5551006, JP5101056, JP2013132985, JP2012017024, JP2008013139, FR3031701, FR2996190, FR2946285, FR2904792, EP2289721, EP1559599, CN105128636, CN104602930, CN104602930, CN103129624, CN103129624, CN102933782, CN102795182, CN102767316, CN102767316,

Abstract:
Source: US2004119318A A vehicle side–door structure, in which a front door and a rear door cover a continuous opening with no partition in a side part of a vehicle so that the opening is opened and closed, the front door is pivotally attached on a hinge at its front part to a vehicle body so that the front door is opened and closed, and the

rear door is pivotally attached on a hinge at its rear part to the vehicle body so that the rear door is opened and closed, includes: a front–door rear reinforcement, the front–door rear reinforcement being disposed at a rear end part of the front door and extending in the vertical direction along the rear end part.

0) US2004080179A – IMPACT ABSORBING STRUCTURE FOR A VEHICLE SIDE D...

103) Family number: 1597177 (US2004080179A) © PatBase

Title: IMPACT ABSORBING STRUCTURE FOR A VEHICLE SIDE DOOR

Priority: CN200310101548 20031010 JP20020302621 20021017

Family:

Publication number	Publication date	Application number	Application date
CN100588563 C	20100210	CN200310101548	20031010
CN1496875 A	20040519	CN200310101548	20031010
DE60301309 D1	20050922	DE20036001309	20031016
DE60301309 T2	20060608	DE20036001309T	20031016
EP1410956 A1	20040421	EP20030023625	20031016
EP1410956 B1	20050817	EP20030023625	20031016
JP2004136756 A2	20040513	JP20020302621	20021017
JP3938000 B2	20070627	JP20020302621	20021017
US2004080179 AA	20040429	US20030685519	20031016
US6923492 BB	20050802	US20030685519	20031016

Probable Assignee: MAZDA MOTOR CORP

Assignee(s):(std)**:** MAZDA MOTOR ; MAZDA MOTOR CORP

Assignee(s): MAZDA MOTOR CORP HIROSHIMA

Inventor(s):(std)**:** MASAJI OKANO ; OKANO SHOJI ; OKAZAKI HIROYUKI ; OKAZAKI YUJI ; YASUYUKI OKAZAKI

Inventor(s): OKAZAKI YASUYUKI ; OKANO MASAJI

Agent(s): NIXON PEABODY LLP; STUDEBAKER DONALD R; DONALD R

Designated states: DE

International class (IPC 8–9)**:** B60J5/00 B60J5/04 B60R13/02 B60R21/02 B60R21/04 (Advanced/Invention); B60J5/00 B60J5/04 B60R13/02 B60R21/02 B60R21/04 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B60J5/04 B60R13/02 B60R21/02 B60R21/04

CPC: B60J5/0425 B60J5/0429 B60J5/043 B60J5/0433 B60R21/0428

European class: B60J5/04E2B10 B60J5/04E2B14 B60J5/04E2B2 B60J5/04E2B7 B60R21/04F

US class: 296/146.6 296/146.600P 296/146.7 296/187.05

Classification Explorer

Cited documents: US6779831 BB, US6779830 BB, US6733064 BB, US6659537 BB, US6481775 BB, US6340203 BB, US6332641 BA, US6286889 BA, US6248200 BA, US6158767 A, US5936818 A, US5820191 A, US5720510 A, US5447326 A, US4958883 A, US2004026957 AA, JP8067213 A2, JP2002103975, JP2002103975, JP2001138864 A2, JP10109662, JP10109662, EP1068970 A1,

Forward Citations: US9126470, US8979178, US8556331, US8262151, US8042860, US7845716, US7530624, US7441826, US7048324, US6929307, US6926340, US2014284967, US2012161468, US2010194126, US2010148535, US2008265623, US2008164716, US2008007087, US2005046228, US2004119318, JP2007106160, FR2917047, DE202006010399, CN104755295, CN104736362, CN103826890, CN103182920, CN102756697, CN102756697,

Abstract:
Source: US2004080179A An impact absorbing structure for a vehicle side door which opens and closes an opening formed in a side part of a vehicle, the side door including: a door main body which has a door inner panel and a door outer panel joined to the door inner panel; and a door sash portion which extends upward from the door main body and supports a door window member, in which: a sash−side door trim which covers the door sash portion is provided in the door sash portion on the inside of a vehicle cabin; and an impact absorbing portion which absorbs an impact load when an occupant comes into contact with the sash−side door trim from the inside of the vehicle cabin is provided in a front longitudinal−side part of the sash−side door trim.

0) US2004090087A – VEHICLE UPPER BODY STRUCTURE

104) Family number: 30562664 (US2004090087A) © PatBase

Title: VEHICLE UPPER BODY STRUCTURE

Priority: JP20020323226 20021107

Family:

Publication number	Publication date	Application number	Application date
CN100431901 C	20081112	CN200310114259	20031107
CN1526600 A	20040908	CN200310114259	20031107
DE60311558 D1	20070322	DE20036011558	20031107
DE60311558 T2	20071025	DE20036011558T	20031107
EP1418076 A1	20040512	EP20030025659	20031107
EP1418076 B1	20070131	EP20030025659	20031107
JP2004155326 A2	20040603	JP20020323226	20021107
JP4259094 B2	20090430	JP20020323226	20021107
US2004090087 AA	20040513	US20030701465	20031106
US6877796 BB	20050412	US20030701465	20031106

Probable Assignee: MAZDA MOTOR CORP

Assignee(s):(std)**:** MAZDA MOTOR ; MAZDA MOTOR CORP

Inventor(s):(std)**:** KIMURA TAKAYUKI ; TAKAYUKI KIMURA

Agent(s): DONALD R; NIXON PEABODY LLP

Designated states: DE

International class (IPC 8–9)**:** B60J5/00 B60J5/04 B60J7/00 B60J7/02 B60J7/04 B62D25/04 B62D25/06 B62D25/08 B62D31/00 (Advanced/Invention); B60J5/00 B60J5/04 B60J7/00 B60J7/02 B60J7/04 B62D25/04 B62D25/06 B62D25/08 B62D31/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B60J5/04 B60J7/00 B60J7/02 B60J7/04 B62D25/04 B62D25/06 B62D25/08 B62D31/00

CPC: B60J5/0479 B60J7/022

European class: B60J5/04 B60J5/04H5B B60J7/02B

US class: 296/146.6 296/187.13 296/203.03 296/203.030P 296/210 296/216.07

Classification Explorer

Cited documents: US6659537 BB, US6481788 BA, US6409258 BA, US6332641 BA, US6059352 A, US5752737 A, US5261722 A, US4333680 A, US3078122 A, US2003160476 AA, JP2001138864 A2, JP2000280744 A2, JP2000280744, JP11042941 A2, JP11042941, JP10297284 A2, FR2701677 A1, EP1215064 A1, EP0188837 A1, DE2543734 A1, DE10034522 A1,

Forward Citations: US9290084, US8727430, US8668250, US8662576, US8303022, US8087714, US7914072, US7819466, US7441826, US7213874, US6979046, US2016101672, US2013181487, US2013038091, US2011266837, US2010327630, US2010231007, US2010026054, US2009284049, US2009127891, US2008164716, US2006202518, US2005156451, US2005121930, JP6126046, JP5940814, JP5234120, JP2015217900, JP2013147069, JP2012153289, JP2009126290, FR2917048, CN105438268, CN105291787, CN103660877, CN103660877, CN103569208, CN103569208, CN103387010, CN103204184, CN102822039, CN102822039,

Abstract:
Source: US2004090087A A vehicle upper body structure, in which a front door and a rear door cover a continuous door opening with no partition in a side part of a vehicle body so that the door opening can be opened and closed, the front door is pivotally attached at its front part to the vehicle body so that the front door can be opened and closed, and the rear door is pivotally attached at its rear part thereof to the vehicle body so that the rear door can be opened and closed, includes: a roof opening which is formed in a roof portion of the vehicle body and through which a vehicle cabin leads to the outside of a vehicle; an opening and closing member which covers the roof opening so that the roof opening can be opened and closed; a roof opening frame which supports the opening

and closing member; and a load transmitting member which transmits a load given in the vehicle−width directions, the load transmitting member being disposed at a side part of the roof opening frame such that the load transmitting member is located between the roof opening frame and a position corresponding to free−end upper parts of both doors which are kept closed.

0) US2004163321A – WEATHER STRIP FOR DOOR PROVIDED WITH LATCH

105) Family number: 30477131 (US2004163321A) © PatBase

Title: WEATHER STRIP FOR DOOR PROVIDED WITH LATCH

Priority: JP20030042007 20030220

Family:

Publication number	Publication date	Application number	Application date
CN100349761 C	20071121	CN200410005894	20040220
CN1522886 A	20040825	CN200410005894	20040220
GB200403261 A0	20040317	GB20040003261	20040213
GB2398597 A1	20040825	GB20040003261	20040213
GB2398597 B2	20060412	GB20040003261	20040213
JP2004249824 A2	20040909	JP20030042007	20030220
JP3920230 B2	20070530	JP20030042007	20030220
KR100984418 B1	20100930	KR20040009480	20040213
KR20040075720 A	20040830	KR20040009480	20040213
TH35576 B	20130419	TH20041000403	20040209
TH67293 A	20050211	TH20041000403	20040209
US2004163321 AA	20040826	US20040773070	20040205
US7073294 BB	20060711	US20040773070	20040205

Probable Assignee: CAO GROUP INC

Assignee(s):(std)**:** MAZDA MOTOR ; MORIYAMA YUKIHIRO ; NISHIKAWA RUBBER CO LTD ; YAMAOKA KOSO

Assignee(s): CAO GROUP INC ; NISHIKAWA RUBBER CO ; MAZDA MOTOR CORP

Inventor(s):(std)**:** MORIYAMA YUKIHIRO ; MORIYAMA YUKIHIRO YAMAOKA KOSO ; YAMAOKA KOSO ; YAMAOKA KOZO ; KOSO MORIYAMA YUKIHIRO YAMAOKA

Inventor(s): KOSO YAMAOKA ; YUKIHIRO MORIYAMA

Agent(s): FLYNN THIEL BOUTELL AND TANIS PC

International class (IPC 8–9)**:** B60J10/00 B60J10/08 E06B7/16 (Advanced/Invention); B60J10/08 (Advanced/Non–invention); B60J10/00 B60J10/08 E06B7/16 (Core/Invention)

International class (IPC 1–7)**:** B60J10/00 B60J10/08 E06B7/16

CPC: B60J10/80 B60J10/25

European class: B60J10/00D6 B60J10/08

US class: 296/146.9 49/475.1 49/479.1

Classification Explorer

Cited documents: US6810624 BB, US6810624 BA, US6751908 BB, US6751908 BA, US6725605 BB, US6725605 BA, US6641205 BA, US6598347 BB, US6598347 BA, US6536834 BB, US6536834 BA, US6527278 BA, US6237287 BA, US5639533 A, US5566510 A, US5269101 A, US5155938 A, US4979333 A, US4977706 A, US4910918 A, US4817336 A, JPS63235143, JP7009628 U1, JP63235143 A2, JP58164423 A2, JP4050546 U1, JP2000343954 A2, JP2000280748 A2, JP2000028074 A2, JP10024739 A2, JP0450546 U1, JP0079628 U1,

Forward Citations: US9751389, US9682169, US9216188, US9198568, US8360504, US8328269, US7866727, US2012193938, US2011252707, US2010055184, US2009211163, US2009001755, US2006123708, EP3072722,

Abstract:
Source: US2004163321A There is provided a door weather strip attached to a door frame of an automobile provided with a latch. An automobile body is equipped with a door provided with a latch and a door unprovided with a latch. The automobile body is unequipped with a center pillar. An opening for installing a latch is formed at

an upper end of one side of a door frame of said door, where hinges are unprovided. An inner sidewall of a molded part of the door weather strip is attached to the upper end of the door frame. The inner sidewall is provided as the bottom end thereof reaches right above the opening. A drainage rib is provided at a rear face of said sidewall for directing water into the opening.

106) Family number: 31003212 (US2004189053A) © PatBase

Title: C–PILLAR AND REAR DOOR HINGE STRUCTURE FOR VEHICLES LACKING A B–PILLAR

Priority: US20030397727 20030326

Family:

Publication number	Publication date	Application number	Application date
JP2004291958 A2	20041021	JP20040086194	20040324
JP4493377 B2	20100630	JP20040086194	20040324
US2004189053 AA	20040930	US20030397727	20030326
US6827390 BB	20041207	US20030397727	20030326

Probable Assignee: HONDA GIKEN KOGYO KK

Assignee(s):(std)**:** HONDA MOTOR CO LTD

Assignee(s): HONDA GIKEN KOGYO K USHIKI KAISHA AB ; HONDA GIKEN KOGYO KABUSHIKI KAISHA ; HONDA GIKEN KOGYO KK

Inventor(s):(std)**:** CROYLE THOMAS H ; KITAYAMA KENICHI ; PLETT MATTHEW ; TARR SHAWN L ; ZUMMALLEN ROBERT G

International class (IPC 8–9)**:** B60J5/04 B62D25/04 (Advanced/Invention); B60J5/04 B62D25/04 (Core/Invention)

International class (IPC 1–7)**:** B60J1/08 B60J5/04 B62D25/04

CPC: B60J5/0479 B62D25/04

European class: B60J5/04H5B B62D25/04

US class: 296/146.11 296/146.9 296/193.06 296/202 296/202P

Classification Explorer

Cited documents: US6659537 BB, US6609748 BA, US6267438 BA, US6267437 BA, US6086141 A, US6059352 A, US6053561 A, US5855407 A, US5765895 A, US5491875 A, US5398989 A, US4930836 A, US4304434 A, US2003230910 AA, US2003006625 AA, US1652902 A, US06059352, US05491875, JP2002106230, JP2000280746, JP2000108931, EP1264757 A2,

Forward Citations: USRE41143, USD557191, USD555058, US9387886, US9266569, US8667737, US8556329, US8418320, US8177277, US8123284, US8038205, US7850226, US7849601, US7810876, US7798560, US7726717, US7543882, US7488029, US7429072, US7422267, US7281753, US7168755, US7032953, US6942277, US2015266517, US2012047687, US2009160218, US2008169685, US2008169682, US2008169679, US2008169677, US2008169666, US2008169665, US2008168644, US2008022600, US2007257517, US2007182204, US2007152473, US2006087149, US2006087145, US2005253413, US2005212325, US2005134084, DE102014114102, CN102383707, CN102383707,

Abstract:
Source: US2004189053A A C–pillar assembly for a vehicle that lacks a B–pillar, the C–pillar assembly including an inner reinforcement member, an outer reinforcement member, upper and lower hinge assemblies, and an outer garnish member. The outer reinforcement member is disposed over the inner reinforcement member. The inner and outer reinforcement members are secured to one another so as to define a C–pillar having, in cross section, a generally box–like shape. The outer reinforcement has an upper mounting location to which the upper hinge assembly is secured and a lower mounting location to which the lower hinge assembly is secured. A portion of the lower hinge assembly is disposed within a hinge pocket formed in the outer reinforcement member. The outer garnish member is secured to the outer reinforcement member and defines a slotted opening through which the lower hinge assembly extends.

0) US2007063538A – MOTOR VEHICLE

107) Family number: 31396147 (US2007063538A) © PatBase

Title: MOTOR VEHICLE

Priority: DE20031022122 20030516 WO2004DE001001 20040513

Family:

Publication number	Publication date	Application number	Application date
AT456473 E	20100215	AT20040732570T	20040513
DE10322122 A1	20041216	DE20031022122	20030516
DE10322122 B4	20050602	DE20031022122	20030516
DE10322122 C5	20101111	DE20031022122	20030516
DE502004010705 D1	20100318	DE200450010705T	20040513
EP1625034 A1	20060215	EP20040732570	20040513
EP1625034 B1	20100127	EP20040732570	20040513
JP2007500103 T2	20070111	JP20060529597T	20040513
US2007063538 AA	20070322	US20040555302	20040513
US7320495 BB	20080122	US20040555302	20040513
WO04103749 A1	20041202	WO2004DE001001	20040513

Probable Assignee: KIEKERT AG

Assignee(s):(std)**:** KIEKERT AG ; MENKE JOHANNES THEODOR

Assignee(s): KIEKERT AKTIENGESELLSCHAFT

Inventor(s):(std)**:** MENKE JOHANNES THEODOR

Agent(s): MATTHIAS SCHOLL; SCHOLL MATTHIAS; MATTHIAS SCHOLL PC; MATTHIAS

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J1/08 B60J10/08 B60J5/00 B60J5/04 E05B47/00 E05B65/12 E05B65/20 E05B65/32 (Advanced/Invention); B60J10/00 B60J5/00 B60J5/04 E05B65/12 E05B65/20 (Core/Invention)

International class (IPC 1–7): B60J5/00 B60J5/04 E05B47/00 E05B65/20 E05B65/32

CPC: B60J5/0479 E05B81/20 E05B81/22 E05B83/38

European class: B60J5/04H5B E05B81/20 E05B81/22 E05B83/38

US class: 296/146.1 296/146.9 296/146.900P

Classification Explorer

Cited documents: US7059654 BB, US6616214 BB, US6581990 BA, US6540270 BA, US6382705 BA, US6382687 BA, US6286260 BA, US6206455 BA, US5832669 A, US5525875 A, US4915428 A, US4887390 A, US4580823 A, US4505500 A, US2922672 A, US2002027375 AA, JP60137067 U1, JP2003011669 A2, JP2002147090 A2, JP2001341528 A2, JP2000280744 A2, EP1050645 A1, EP1031690 A1, DE3234781 A1, DE19957061 A1, DE19955883 A1, DE19944554 A1, DE19942360 A1, DE19803709 C2, DE19706393 A1, DE19634369 C1, DE10114938 A1,

Forward Citations: WO15117211, WO06024264, USD781194, US9073413, US8677692, US8484900, US8303022, US8267464, US7311169, US2015149918, US2014312650, US2012013144, DE102010038568, CN102383676, CN102383676,

Abstract:
Source: US2007063538A The invention discloses a vehicle with a front door and a rear door without a B column between the two doors, with the front door latch being designed as a power latch with a door–closing assistance and the rear door latch containing a power latch holder with an adjustable locking bolt, in order to achieve a stable

door connection with low closing forces.

108) Family number: 32024007 (US2009001755A) © PatBase

Title: SEALING STRIP FOR SIDE WINDOWS ON MOTOR VEHICLES

Priority: DE200410041741 20040828 WO2005EP09080 20050823

Family:

Publication number	Publication date	Application number	Application date
DE102004041741 B3	20050623	DE200410041741	20040828
DE502005004041 D1	20080619	DE200550004041T	20050823
EP1781483 A1	20070509	EP20050777333	20050823
EP1781483 B1	20080507	EP20050777333	20050823
ES2306202 T3	20081101	ES20050777333T	20050823
JP2008511488 T2	20080417	JP20070528729T	20050823
US2009001755 AA	20090101	US20050661289	20050823
US7866727 BB	20110111	US20050661289	20050823
WO06024427 A1	20060309	WO2005EP09080	20050823

Probable Assignee: DAIMLER AG

Assignee(s):(std)**:** DAIMLER AG ; DAIMLER CHRYSLER AG ; FUETTERER MICHAEL

Assignee(s): DAIMLERCHRYSLER AG

Inventor(s):(std)**:** FUETTERER MICHAEL ; FUTTERER MICHAEL

Agent(s): CROWELL AND MORING LLP, INTELLECTUAL PROPERTY GROUP; CROWELL AND MORING LLP INTELLECTUAL PROPERTY GROUP; CROWELL AND MORING LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J1/00 B60J10/00 B60J10/04 B60J10/06 B62D65/08 E06B7/16 (Advanced/Invention); B60J1/00 B60J10/00 B60J10/02 B62D65/00 E06B7/16 (Core/Invention)

International class (IPC 1–7): B60J10/00 B60J10/04 B60J10/06

CPC: B60J10/45 B60J10/79 B60J5/0409 B60J10/773 B60J10/777

European class: B60J10/00D3 B60J10/00G B60J10/00G10 B60J10/04 B60J10/06 B60J5/04B7

US class: 296/146.1 296/146.16 296/146.160P 296/146.2 296/146.9 49/489.1 49/489.100S

Classification Explorer

Cited documents: US7073294 BB, US6723414 BB, US6208497 BA, US6053565 A, US5931523 A, US5755467 A, US5414961 A, US4815773 A, US4367454 A, US3603636 A, US2613617 A, US2438238 A, US2174231 A, US2003168882 AA, US188041 A, US1414862 A, DE4325501 A1, DE4203364 C2, DE4203364 A1, DE10055897 C1, CH176787 A,

Forward Citations: WO17148613, WO07124952, US9707831, US9038319, US8800207, US8793938, US8650802, US8646215, US8572898, US8561354, US8454077, US7871120, US2012272579, US2010237643, US2008191517, FR2976860, EP2607126, DE202008006050, DE102016002681,

Abstract:
Source: US2009001755A A sealing strip for side windows on motor vehicles, which is arranged between a retractable, frameless, front side window and a retractable, frameless, rear side window. The sealing strip reaches from the door line as far as a roof frame of the motor vehicle. A movable locking member is fitted to the sealing strip and, in a closed state, engages with a locking counterpart arranged on the roof frame.

0) US2005189780A – FRONT PILLAR GARNISH

109) Family number: 32198758 (US2005189780A) © PatBase

Title: FRONT PILLAR GARNISH

Priority: JP20040014435 20040122

Family:

Publication number	Publication date	Application number	Application date
CN100421996 C	20081001	CN200510004497	20050124
CN1644429 A	20050727	CN200510004497	20050124
JP2005206026 A2	20050804	JP20040014435	20040122
JP3845093 B2	20061115	JP20040014435	20040122
US2005189780 AA	20050901	US20050038252	20050121
US7118169 BB	20061010	US20050038252	20050121

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s):(std): HONDA MOTOR CO LTD ; TOKAI KOGYO CO LTD ; TOKAI KOGYO CORP ; TOKAI KOGYO K K HONDA MOTOR CO

Assignee(s): TOKAI KOGYO K K HONDA MOTOR CO LTD ; HONDA MOTOR CO ; TOKAI KOGYO K K

Inventor(s):(std): SAKAMOTO KOICHI ; HARA KENGO ; KOOICHI SAKAMOTO ; KENGO HARA

Inventor(s): SAKAMOTO KOOICHI

Agent(s): OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; WESTERMAN HATTORI DANIELS AND ADRIAN LLP

International class (IPC 8–9): B60J1/02 B60J1/20 B60J10/00 B60J10/02 B60J7/00 B60R13/02 (Advanced/Invention); B60J1/02 B60J1/20 B60J10/00 B60J10/02 B60J7/00 B60R13/02 (Core/Invention)

International class (IPC 1–7): B60J1/02 B60J1/20 B60R13/02

CPC: B60J10/25 B60J10/265 B60J10/70 B60J1/2005

European class: B60J1/20A1 B60J10/00D6 B60J10/00D7B B60J10/02

US class: 296/146.9 296/208 296/93

Classification Explorer

Cited documents: US6708450 BB, US6708450 BA, US6612074 BA, US6279987 BA, US5791722 A, US5702148 A, US5493814 A, US5451090 A, US5396733 A, US5317835 A, US4060272 A, US4047751 A, US2004212216 AA, JP2003054262 A2,

Forward Citations: US9205732, US9114694, US9114693, US8919846, US8371069, US7727456, US7360825, US7269887, US7083212, US2014306480, US2013292965, US2010011670, US2007090668, US2007051823, US2006145496, US2004175536, JP5806699, JP2014205379, FR2920737, EP2033848, CN104097489, CN102039855,

Abstract:
Source: US2005189780A A front pillar garnish includes an ornamental head portion having an inward end, a groove wall protruding the ornamental head portion toward a window pane and defining a rain water gutter in cooperation with a surface of the window pane, and amounting leg portion protruding from the ornamental head portion toward a gap between the window pain and a front pillar for mounting the front pillar garnish. The groove wall includes first and second groove walls respectively positioned at an upper side and a lower side in a longitudinal direction of the front pillar garnish. A maximum distance in a direction toward an outer peripheral end face of the window pane from the inward end of the ornamental head portion to the second groove wall is larger than a maximum distance from the inward end of the ornamental head portion to the first groove wall.

0) JP2005219517A – WEATHER STRIP FOR CENTER–PILLAR–FREE DOOR

110) Family number: 32292664 (JP2005219517A) © PatBase

Title: WEATHER STRIP FOR CENTER–PILLAR–FREE DOOR

Priority: JP20040026661 20040203

Family:

Publication number	Publication date	Application number	Application date
JP2005219517 A2	20050818	JP20040026661	20040203
JP4376646 B2	20091202	JP20040026661	20040203

Probable Assignee: NISHIKAWA RUBBER CO LTD

Assignee(s):(std)**:** NISHIKAWA RUBBER CO LTD

Inventor(s):(std)**:** FUJIMURA YOSHIO

International class (IPC 8–9): B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7): B60J10/08

Classification Explorer

Forward Citations: KR101242266, JP6192332, JP5832851, JP2014189260, JP2013086767,

Abstract:
Source: JP2005219517A PROBLEM TO BE SOLVED: To provide a weather strip provided with a drain structure mounted to a mating part of doors of a center pillar–free automobile and capable of previously preventing generation of sinking water intruded at its upper end into a cabin along a side surface of the cabin. SOLUTION: The weather strip is mounted to the mating part F of the doors of the center pillar–free automobile having no center pillar. A seal bead 12 closely and resiliently contacted with the door panel 1 is laterally provided on the side surface of the cabin of the weather strip body 11. A water receiver 13 is formed on a side surface of the outside of the vehicle and a water removal hole 14 communicating the seal bead 12 with the water receiver 13 is formed. Further, a communication passage 15 for communicating the water removal hole 14 with a hollow part 11a of the weather strip body 11 is formed.

0) DE102004013357B3 – MOTOR VEHICLE WITHOUT B–PILLAR HAS FACILITY WHE...

111) Family number: 32272288 (DE102004013357B3) © PatBase

Title: MOTOR VEHICLE WITHOUT B–PILLAR HAS FACILITY WHEREBY BEFORE AND/OR DURING OPENING OF ONE DOOR THE OTHER DOOR IS ADJUSTED BY SERVO CLOSING UNIT BY PREDETERMINED AMOUNT AND OCCUPIES SEAL RELIEVING POSITION TO PROTECT SEAL AGAINST DAMAGE

Priority: DE200410013357 20040317

Family:

Publication number	Publication date	Application number	Application date
DE102004013357 B3	20050929	DE200410013357	20040317

Probable Assignee: KIEKERT AG

Assignee(s):(std)**:** KIEKERT AG

Inventor(s):(std)**:** MENKE JOHANNES THEODOR

International class (IPC 8–9)**:** B60J5/04 (Advanced/Invention); B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** B60J5/04

CPC: B60J5/0479

European class: B60J5/04H5B

Classification Explorer

Cited documents: WO9722771 A1, US2002027375 AA, EP1215064 A1, EP1068970 A1, DE3721963 C1, DE19955883 A1, DE10140385 A1, DE10048051 A1, DE10025390 A1,

Forward Citations: EP1685994, DE102015214085, DE102008023929,

Abstract:
The motor vehicle without a B–pillar has at least one front door (2) and at least one rear door (3) on one body side, whereby both doors in the closed state abut by at least one edge through the intermediary of a seal (4). Before and/or during the opening of one door the other door is adjusted by means of a servo closing unit (9) by a predetermined amount and occupies a seal relieving position in order to protect the seal against damage. The front door is constructed as a hinged door fixed on the A–pillar (A), and the rear door is designed as a sliding door connected to the C–pillar (C).

112) Family number: 32747510 (EP1637374B1) © PatBase

Title: DEVICE AND PROCEDURE FOR ASSISTING THE FASTENING OF A WINDOW ELEMENT ON A FRAMELESS DOOR OF A MOTOR VEHICLE

Priority: FR20040009786 20040915

Family:

Publication number	Publication date	Application number	Application date
AT393716 E	20080515	AT20050291903T	20050914
DE602005006355 D1	20080612	DE200560006355T	20050914
DE602005006355 T2	20090702	DE200560006355T	20050914
EP1637374 A1	20060322	EP20050291903	20050914
EP1637374 B1	20080430	EP20050291903	20050914
FR2875211 A1	20060317	FR20040009786	20040915
FR2875211 B1	20061222	FR20040009786	20040915

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES SA SOCIETE ANONYME ; PEUGEOT CITROEN AUTOMOBILES SOC ANONYME SA ; PEUGEOT CITROEN AUTOMOBILES S A

Inventor(s):(std)**:** LAVERNE JEROME ; LAVERNHE JEROME ; PARILLAUD PATRICK

Inventor(s): PATRICK PARILLAUD ; JEROME LAVERNHE

Agent(s): BLOT PHILIPPE ROBERT EMILE ET AL; CABINET LAVOIX

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

International class(IPC 8–9)**:** B60J10/06 B60J10/79 B60J5/04 B62D65/06 (Advanced/Invention); B60J10/02 B60J5/04 B62D65/00 (Core/Invention)

CPC: B62D65/06

European class: B62D65/06

Classification Explorer

Cited documents: US6247218 BA, US6061890 A, US5960588 A, US4736515 A, US2002052710 AA, FR2844246 A1, EP0742117 A1,

Forward Citations: GB2421703,

Abstract:
Source: EP1637374B1 The device has three marking plates and three optical readers for generating information representing a real position of corner inserts of a window pane and a gusset relative to a jig. A memory stores information representing an optimal position of the inserts relative to the jig. A display device displays an order of displacement of the pane and gusset based on comparison of the information with each other by a comparison unit. An independent claim is also included for a method of assisting fixation of a window pane and a gusset on a frameless door of a motor vehicle.

0) US2008282617A – INNER GARNISH ASSEMBLY

113) Family number: 33028539 (US2008282617A) © PatBase

Title: INNER GARNISH ASSEMBLY

Priority: EP20050824812 20051118 US20040628986P 20041118 US20050631712 20051118 WO2005US42159 20051118

Family:

Publication number	Publication date	Application number	Application date
CA2575801 AA	20070201	CA20052575801	20051118
CA2575801 C	20140128	CA20052575801	20051118
DE602005043490 D1	20140612	DE200560043490T	20051118
EP1812257 A2	20070801	EP20050824812	20051118
EP1812257 A4	20101124	EP20050824812	20051118
EP1812257 B1	20140430	EP20050824812	20051118
JP2008520503 T2	20080619	JP20070543353T	20051118
JP5415697 B2	20140212	JP20070543353T	20051118
KR101260807 B1	20130509	KR20077009277	20051118
KR20070083778 A	20070824	KR20077009277	20051118
MX2007005963 A1	20070704	MX20070005963	20051118
US2008282617 AA	20081120	US20050631712	20051118
US8128143 BB	20120306	US20050631712	20051118
WO06055911 A2	20060526	WO2005US42159	20051118
WO06055911 A3	20060803	WO2005US42159	20051118

Probable Assignee: COOPER STANDARD AUTOMOTIVE INC

Assignee(s):(std)**:** COOPER STRANDARD AUTOMOTIVE IN ; ZIMMER JOHN ; MARSHICK LEONARD ; BARA ROD ; COOPER STANDARD AUTOMOTIVE INC

Assignee(s): COOPER STANDARD AUTOMOTIVE INC NOVI ; BANK OF AMERICA NA AGENT AS ; COOPER STRANDARD AUTOMOTIVE INC ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT A ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT AS ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS

Inventor(s):(std)**:** BARA ROD ; MARSHICK LEONARD ; ZIMMER JOHN

Inventor(s): ZIMMER JOHN CANTON ; MARSHICK LEONARD BELLEVILLE ; ROD BARA ; BARA ROD ROCHESTER HILLS ; JOHN ZIMMER ; LEONARD MARSHICK

Agent(s): BCF LLP; EQUINOX; RIEBLING PETER DIPL ING DR ING; JOHNSTONE DOUGLAS IAN; TOMITA HIROYUKI; ONO SHINJIRO; KOBAYASHI YASUSHI; KANDA FUJIHIRO; CHIBA AKIO; FAY SHARPE LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B23P11/00 B60J1/08 B60J1/12 B60J10/02 B60J10/04 B60J5/04 B60J9/00 B60R13/02 E06B7/16 (Advanced/Invention); B60J1/08 B60J10/02 B60J5/04 (Advanced/Non–invention); B23P11/00 B60J1/08 B60J1/12 B60J10/02 B60J5/04 B60J9/00 B60R13/02 E06B7/16 (Core/Invention)

CPC: Y10T29/49826 B60R13/0206 B60J10/74 B60R13/02 B60R2013/0287

European class: B60J10/04 B60R13/02B L60R13/02 L60R13/02R

US class: 29/428 29/428S 296/1.08 49/495.1 49/495.100P

Classification Explorer

Cited documents: US6996936 BA, US6942278 BB, US6843024 BB, US6817651 BB, US6684575 BB, US6679003 BB, US6652952 BB, US6612074 BA, US6487820 BA, US6485663 BA, US6409251 BA, US6401397 BB, US6205712 BA, US6138338 A, US6082048 A, US6038930 A, US6007140 A, US5970659 A, US5799442 A, US5779956 A, US5740640 A, US5651217 A, US5582895 A, US5566510 A, US5437124 A, US5331767 A, US5207029 A, US5054242 A, US5014464 A, US4970828 A, US4969294 A, US4951418 A, US4888929 A, US4614061 A, US2006059799 AA, US2006000181 AA, US2005081450 AA, US05582895, JPS63315319, JPS6148812 U, JPS5994919 U, JP63315319 A2, JP63315319, JP61048812 U1, JP61048812 U, JP6018095 U1, JP5994919 U, JP59094919 U1, JP59094919 U, JP2175428 A2, JP2004537450 T2, JP2004123007 A2, JP2004123007, JP2003500282 T2, JP2003500282, JP200259493, JP200252938, JP2002059493 A2, JP2002052938 A2, JP2001150959 A2, JP2001150959, JP2001150959, JP2000142110 A2, JP2000142110, JP10181349 A2, JP10181349, JP10100193 A2, JP10100193, EP0832776 A1, EP0573139 A1,

Forward Citations: WO11068532, WO09006425, US9625037, US9022446, US8840170, US8640385, US8544210, US8127501, US2016003358, US2015260287, US2012091751, US2011215612, US2011010995, US2010115851, JP2013512152, JP2010532293, GB2445614, EP2346707, EP2170639, EP2170639, DE102015204972, CN102666164,

Abstract:
Source: US2008282617A A one−piece inner garnish assembly is provided for an associated vehicle window opening. The garnish assembly includes a weatherseal assembly and a garnish joined thereto prior to installation on the associated vehicle. In one embodiment, the weatherseal assembly includes first and second legs extending from a base portion. Each leg includes a low friction seal lip such as flock or TPV for sealingly engaging surface of the associate vehicle window. The garnish is a molded component that is joined to the weatherseal assembly, for example, in a preferred embodiment the garnish is joined to a leg of the weatherseal assembly. In another embodiment of the garnish assembly, a belt seal with integral garnish and molded transition members at opposite ends are provided.

114) Family number: 33173397 (EP1685994B1) © PatBase

Title: KRAFTFAHRZEUG OHNE B–SAEULE UND MIT EINER VORDEREN UND EINER HINTEREN SEITENTUER VEHICLE WITHOUT B–PILLAR AND WITH A FRONT AND A REAR SIDE DOOR

Priority: DE200510004575 20050201

Family:

Publication number	Publication date	Application number	Application date
DE102005004575 A1	20060810	DE200510004575	20050201
EP1685994 A2	20060802	EP20060001956	20060131
EP1685994 A3	20090107	EP20060001956	20060131
EP1685994 B1	20160810	EP20060001956	20060131

Probable Assignee: BAYERISCHE MOTOREN WERKE AKTIENGESELLSCHAFT

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Assignee(s): BAYERISCHE MOTOREN WERKE AKTIENGESELLSCHAFT

Inventor(s):(std)**:** AIGNER JOHANN ; BURSELL ROBERT ; MANN BRUNO ; PEIS REINHARD

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

International class (IPC 8–9): B60J5/02 B60J5/04 B62D25/02 (Advanced/Invention); B60J5/04 (Core/Invention)

CPC: B60J5/0479

European class: B60J5/04H5B

Classification Explorer

Cited documents: WO04028884 A2, US2005156451 AA, EP1068970 A1, DE69820403 T2, DE69008986 T2, DE60009986 T2, DE10346707 B3,

DE102004013357 B3

DE10119131 A1,

Forward Citations: DE102014003396, DE102008023929, DE102008005490, DE102008005490,

Abstract:
Source: EP1685994A3 Mazda bietet seit 2004 in Deutschland das Fahrzeugmodell RX–8 an, das eine derartige vordere und hintere Seitentuer aufweist. Dabei bilden die geschlossene vordere und die geschlossene hintere Seitentuer einen Ueberlappungsbereich, sodass die hintere Seitentuer nur geoeffnet und geschlossen werden kann, wenn die vordere Seitentuer geoeffnet ist. Aufgabe der Erfindung ist es, ein Kraftfahrzeug mit einer vorderen und einer hinteren schwenkbaren Seitentuer zu schaffen, die sich wie beim Mazda RX–8 sequentiell oeffnen lassen, die so gestaltet sind, dass sie auch bei fehlerhafter Bedienung nicht beschaedigt werden koennen. Die vordere und die hintere Seitentuer (2 und 3) weisen in ihren Verschwenkbereichen einen Kollisionsbereich auf, in dem sie sich beruehren koennen. Dieser Kollisionsbereich entsteht hauptsaechlich durch den Ueberlappungsbereich, den die beiden Seitentueren (2,3) in der geschlossenen Stellung bilden. Kerngedanke der Erfindung ist es, eine Beschaedigung der Seitentueren (2,3) zu vermeiden, indem einerseits der Kollisionsbereich moeglichst klein gehalten wird, sodass die Wahrscheinlichkeit einer Kollision gering ist, und indem andererseits Massnahmen ergriffen werden, die bei einer Kollision eine Beschaedigung moeglichst vermeiden. Dies wird durch folgende Massnahmen erreicht: a) Die Fuge oberhalb der Tuerbruestung zwischen vorderer und hinterer Seitentuer ist breiter als zumindest 7mm. b) Die vordere Seitentuer ist an ihrer oberen hinteren Ecke schraeg beschnitten. c) Die hintere Seitentuer weist eine schadensunempfindliche Blende auf. d) Die hintere Seitentuer weist eine Tuerverkleidung auf, die sich flaechig an der vorderen Seitentuer abstuetzen kann.

0) FR2881998B – PORTE COULISSANTE STABLE

115) Family number: 33277000 (FR2881998B) © PatBase

Title: PORTE COULISSANTE STABLE

Priority: FR20050001618 20050217

Family:

Publication number	Publication date	Application number	Application date
FR2881998 A1	20060818	FR20050001618	20050217
FR2881998 B1	20070420	FR20050001618	20050217

Probable Assignee: RENAULT SAS

Assignee(s):(std)**:** RENAULT SAS ; RENAULT SAS SOC PAR ACTIONS SI

Assignee(s): RENAULT SAS SOC PAR ACTIONS SIMPLIFIEE ; RENAULT SAS SOCIETE PAR ACTIONS SIMPLIFIEE

Inventor(s):(std)**:** CHEREAU PIERRE ; LE GRIFFON JEAN BERNARD ; LERAY FABRICE ; OLLIVIER JEAN LOUIS

International class (IPC 8–9): B60J5/06 E05D15/10 (Advanced/Invention) ; B60J5/06 E05D15/10 (Core/Invention)

CPC: B60J5/06 E05D15/0621 E05D15/1081 E05Y2900/531

European class: B60J5/06 E05D15/06D E05D15/10T3 P05Y900/531

Classification Explorer

Cited documents: US6382705 BA, US5398988 A, US4068407 A, US3935674 A, FR2285257 A1, DE20106046 U1,

Forward Citations: US9701183, US2015291014, ES2331390, EP3015299, EP2626226, EP2253789, DE102007062325,

Abstract:
Source: FR2881998B The vehicle has upper and lower carriages (5, 6) and a lower roller (15), to guide a sliding door (100). The two main support points of the door are situated at the carriages which are located at diametrically opposite positions, when the door is in a closed position. The roller forms an additional support point to the door. A guide pin forming a temporary guide and a support point for the door is located on an inner side of the door.

0) US2006186705A – RETRACTABLE PILLAR FOR CONVERTIBLE VEHICLE

116) Family number: 33254437 (US2006186705A) © PatBase

Title: RETRACTABLE PILLAR FOR CONVERTIBLE VEHICLE

Priority: US20050064030 20050223

Family:

Publication number	Publication date	Application number	Application date
DE102006008290 A1	20060824	DE200610008290	20060222
US2006186705 AA	20060824	US20050064030	20050223
US7243983 BB	20070717	US20050064030	20050223

Probable Assignee: SPECIALTY VEHICLE ACQUISITION CORP

Assignee(s):(std)**:** ASC INC ; RASHIDY MOSTAFA ; STORC ROBERT G ; TOBIN GERALD F ; WOLENTER GEORGE

Assignee(s): SPECIALTY VEHICLE ACQUISITION CORP

Inventor(s):(std)**:** RASHIDY MOSTAFA ; STORC ROBERT G ; TOBIN GERALD F ; WOLENTER GEORGE

Inventor(s): TOBIN GERALD ; STORC ROBERT

Agent(s): HARNESS DICKEY AND PIERCE PLC

International class (IPC 8–9): B60J7/12 B62D25/02 B62D25/04 (Advanced/Invention)

CPC: B60J7/126 B62D25/025 B62D25/04

European class: B60J7/12C8 B62D25/04 L62D25/02B

US class: 296/107.09 296/193.06 296/193.060P 296/201

Classification Explorer

Cited documents: US6851743 BB, US6843522 BB, US6755457 BB, US6575521 BB, US6550842 BA, US6517135 BB, US6481772 BA, US6438843 BA, US6305736 BA, US6135535 A, US6114819 A, US6086138 A, US5913762 A, US5806914 A, US5779299 A, US5700982 A, US5591204 A, US5588694 A, US5557502 A, US5475956 A, US5456516 A, US5453516 A, US5356194 A, US5284360 A, US5236219 A, US5224735 A, US5092078 A, US4993775 A, US4932712 A, US4828317 A, US4711485 A, US4708389 A, US4700982 A, US4695089 A, US4671559 A, US4626026 A, US4591204 A, US4557502 A, US4514891 A, US4348046 A, US4229036 A, US4202565 A, US4089542 A, US3666313 A, US3492044 A, US3298731 A, US3292726 A, US3198572 A, US2079232 A, US2005194811 AA, US2004032146 AA, US2003011208 AA, US1956616 A, US1720953 A, US1463193 A, US1353157 A, US1199497 A, GB612015 A, GB273894 A, FR671743 A, FR459931 A, DE4241054 C1,

Forward Citations: US9783240, US8967703, US8246108, US7654606, US2016152277, US2013187410, US2012319433, US2010244492, US2008272624, US2007216191, US2006192408, EP1818202,

Abstract:
Source: US2006186705A A retractable pillar is used in a convertible vehicle. In another aspect of the present invention, a pillar is automatically retracted and extended. A further aspect of the present invention rotates at least a portion of the pillar during its movement. In still another aspect of the present invention, a retractable B–pillar provides weatherstrip sealing to a door–mounted window.

0) US2006218749A – INTEGRATED HINGE AND TEMPORARY DOOR CHECKER

117) Family number: 33431319 (US2006218749A) © PatBase

Title: INTEGRATED HINGE AND TEMPORARY DOOR CHECKER

Priority: US20050094996 20050331 US20080234092 20080919 US20080234099 20080919 WO2006US07594 20060302 US20100749201 20100329 US20100751135 20100331

Family:

Publication number	Publication date	Application number	Application date
CA2592731 AA	20070628	CA20062592731	20060302
CA2592731 C	20111129	CA20062592731	20060302
JP2008536740 T2	20080911	JP20080504066T	20060302
JP4719268 B2	20110706	JP20080504066T	20060302
US2006218749 AA	20061005	US20050094996	20050331
US2009007381 AA	20090108	US20080234099	20080919
US2009015036 AA	20090115	US20080234092	20080919
US2010180419 AA	20100722	US20100749201	20100329
US2010186193 AA	20100729	US20100751135	20100331
US7430785 BB	20081007	US20050094996	20050331
US7585013 BB	20090908	US20080234092	20080919
US7735195 BB	20100615	US20080234099	20080919
US7849561 BB	20101214	US20100751135	20100331
US7946017 BB	20110524	US20100749201	20100329
WO06107474 A2	20061012	WO2006US07594	20060302
WO06107474 A3	20090522	WO2006US07594	20060302

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s):(std)**:** HONDA MOTOR CO LTD ; IMAN MARC ; TRAN CINDY ; RITCHIE JAMES ; TAKAHIRO OHNO ; TAKASHI OGAWA ; TAKESHI ISHIKAWA ; BROWN MARK

Assignee(s): HONDA MOTOR CO ; OHNO TAKAHIRO ; ISHIKAWA TAKESHI ; OGAWA TAKASHI

Inventor(s):(std)**:** BROWN MARK ; IMAN MARC ; ISHIKAWA TAKESHI ; OGAWA TAKASHI ; OHNO TAKAHIRO ; RITCHIE JAMES ; TAKAHIRO OHNO ; TAKASHI ISHIKAWA ; TAKASHI OGAWA ; TAKESHI ISHIKAWA ; TRAN CINDY

Agent(s): GASTLE AND ASSOCIATES; RANKIN HILL PORTER AND CLARK LLP; RANKIN HILL AND CLARK LLP; CIAMACCO VINCENT; VINCENT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B23P11/00 B23P19/00 B60J5/00 B60J5/04 E05D11/00 E05D11/10 E05D3/02 E05F1/08 (Advanced/Invention); B23P11/00 B23P19/00 B60J5/00 B60J5/04 E05D11/00 E05D3/00 E05F1/00 (Core/Invention)

CPC: E05Y2900/531 E05D11/1042 E05F1/1238 Y10T16/5383 Y10T16/54028 Y10T16/54029 Y10T16/625 Y10T16/6295 Y10T29/49815 Y10T29/49824 Y10T29/49826 Y10T16/540257

European class: E05D11/10E2 P05F1/12C2

US class: 16/286 16/332 16/334 16/334P 16/335 16/85 16/86C 29/426.1 29/426.100P 29/426.6 29/428 29/428S 296/146.11

Classification Explorer

Cited documents: WO04027190 A1, US7469446 BA, US7076836 BA, US6591451 BB, US6481056 BA, US6438794 BB, US6334236 BA, US6332243 BA, US5924170 A, US5824170 A, US5475897 A, US4932101 A, US4807331 A, US4731904 A, US4301570 A, US4285098 A, US3729772 A, US3710417 A, US2720673 A, US2441600 A, US2314416 A,

US2268976 A, US2219800 A, US2176641 A, US2003140455 AA, JP2005321063 A2, JP2002531329 T2, JP2002531329, JP2000160914 A2,

Forward Citations: US9551176, US9180761, US9103146, US8979170, US8869350, US8561262, US8066320, US7891056, US7628443, US2017058585, US2015368945, US2015026924, US2014097644, US2013055530, US2013055529, US2010192652, US2009133223, US2009015034, JP2015025295, CN103062209, CN101975004,

Abstract:
Source: US2006218749A A temporary checking device is provided that works in conjunction with elements of a vehicle hinge that remain in the vehicle's final configuration. The hinge includes a hinge pin rotatably connecting a door hinge bracket to a pillar hinge bracket. The checking device includes a spring portion that is disposed between the door hinge bracket and the pillar hinge bracket. The spring portion is compressed during movement of the door hinge bracket relative to the pillar hinge bracket from either of two rest positions. The spring portion urges the vehicle door affixed thereto back into one of the rest positions, thus allowing manufacturing operations such as painting, etc., to be performed on the vehicle.

0) EP1741619A1 – UNDERBODY STRUCTURE OF SLIDING–DOOR VEHICLE UN...

118) Family number: 34084867 (EP1741619A1) © PatBase

Title: Underbody structure of sliding–door vehicle

Priority: JP20050194516 20050704 JP20050201426 20050711 JP20100195365 20100901 JP20050204039 20050713

Family:

Publication number	Publication date	Application number	Application date
CN100584681 C	20100127	CN200610101362	20060704
CN1891554 A	20070110	CN200610101362	20060704
DE602006008702 D1	20091008	DE200660008702T	20060630
EP1741619 A1	20070110	EP20060013657	20060630
EP1741619 B1	20090826	EP20060013657	20060630
JP2007008398 A2	20070118	JP20050194516	20050704
JP2007015637 A2	20070125	JP20050201426	20050711
JP2007022182 A2	20070201	JP20050204039	20050713
JP2010264980 A2	20101125	JP20100195365	20100901
JP4577129 B2	20101110	JP20050204039	20050713
JP4715341 B2	20110706	JP20050194516	20050704
JP4720327 B2	20110713	JP20050201426	20050711
JP5170188 B2	20130327	JP20100195365	20100901

Probable Assignee: MAZDA MOTOR

Assignee(s):(std)**:** MAZDA MOTOR

Assignee(s): MAZDA MOTOR CORP

Inventor(s):(std)**:** FUMIO OKANA ; MUKOYAMA NORITAKA ; NORITAKA OKANA FUMIO SAKIYAMA ; NORITAKA SAKIYAMA ; OKANA FUMIO ; SAKIYAMA NORITAKA

Inventor(s): OKANA FUMIO SAKIYAMA NORITAKA

Agent(s): LAUFHUETTE DIETER

Designated states: AL BA DE HR MK YU

International class (IPC 8–9): B60J5/06 B62D21/02 B62D21/15 B62D25/00 B62D25/20 (Advanced/Invention); B62D25/20 (Core/Invention)

CPC: B60J5/06 B62D21/157 B62D25/025 B62D25/2036

European class: B60J5/06 B62D21/15B B62D25/02B B62D25/20A3

Classification Explorer

Cited documents: JPS56132173 U, JPS56132173, JP9193837 A2, JP8175425 A2, JP6278465 A2, JP56132173 U1, JP56132173 A2, JP4067191 U1, JP2646575 B2, JP2006151004 A2, JP2005001473 A2, JP2004291796 A2, JP2003170748 A2, JP2003146248 A2, JP2002274438 A2, JP11334651 A2, JP10316047 A2, EP1092574 A1, EP0101971 A2, EP0100455 A1,

Forward Citations: WO13076818, WO10146262, US9139234, US8657369, KR101398097, JP6001324, JP5994411, JP5893496, JP5724888, JP5673856, JP5115435, JP2013256202, JP2013241148, JP2013226874, JP2013147106, JP2013123935, JP2013076818, JP2010083255, JP2009107368, JP2009078686, FR2946949, DE102011018951, CN102803051, CN102803051,

Abstract:
Source: EP1741619A1 This invention is provided with a side sill (4); a floor panel (9); a center rib (8); and inner and outer sill parts (41 and 42) which form the side sill (4). The inner sill part (41) forms a rail accommodating part (43) which accommodates a lower rail that holds a lower part of the sliding side door. The structure has a protruding part (44) formed on the inner sill part (41) and is so bulging to the interior of the vehicle (V) to form the rail accommodating part (43) and a cross member (11, 111, 211) extends along a lateral direction of the vehicle (V) on the floor panel (9) and interconnects the protruding part (44) of the inner sill part and the center rib (8) of the floor panel (9).

0) WO07007187A1 – MOULDED MEMBER AND COATING ELEMENT MOULE ET RE...

119) Family number: 32258811 (WO07007187A1) © PatBase

Title: MOULDED MEMBER AND COATING

Priority: GB20050014406 20050713 GB20050023549 20051118

Family:

Publication number	Publication date	Application number	Application date
GB200514406 A0	20050817	GB20050014406	20050713
GB200523549 A0	20051228	GB20050023549	20051118
GB2428605 A1	20070207	GB20050023549	20051118
WO07007187 A1	20070118	WO2006IB02058	20060713

Probable Assignee: GDX AUTOMOTIVE NORTH AMERICA I

Assignee(s):(std)**:** FOSTER MARK CHARLES ; GDX AUTOMOTIVE NORTH AMERICA I ; GDX NORTH AMERICA INC ; KRISHNAMACHARI GOPALAN

Assignee(s): GDX AUTOMOTIVE NORTH AMERICA INC

Inventor(s):(std)**:** KRISHNAMACHARI GOPALAN

Inventor(s): GOPALAN KRISHNAMACHARI

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J10/00 C09D201/04 (Advanced/Invention); B60J10/00 C09D201/02 (Core/Invention)

CPC: B60J10/21 B60J10/16 B60J10/17 B60J10/2335 B60J10/74

European class: B60J10/00C2 B60J10/00C3 B60J10/00D1 B60J10/00D3B2 B60J10/04

Classification Explorer

Cited documents: US4316941 A, US2004018312 AA, GB2326435 A1, GB2088385 A1,

Forward Citations: CN106432821,

Abstract:
A moulded sealing, trimming or guiding member, in particular a sealing corner (3), having a two part coating with a part A of fluoroelastomer containing cross linkable sites dissolved in an organic solvent and a part B based on organosilane comprising hydrolysable groups and a monoprimary amine. Such a sealing corner (3) is intended to serve as part of a sealing system for, for example a window of a vehicle when located between a first extruded sealing member (6) at a header and a second extruded sealing member (7) at a pillar. The coating is applicable without a primer and has excellent abrasion resistance properties. A method of making such a moulded sealing, trimming or guiding member and a method of coating such a moulded sealing, trimming or guiding member with Lord HPC–5B coating.

0) US2007090668A – DRIP MOLDING FOR VEHICLE, HAVING FURNISHING LIP...

120) Family number: 34400304 (US2007090668A) © PatBase

Title: DRIP MOLDING FOR VEHICLE, HAVING FURNISHING LIP PART BENDING TOWARD WINDOWPANE

Priority: JP20050305447 20051020

Family:

Publication number	Publication date	Application number	Application date
CN100554042 C	20091028	CN200610135746	20061017
CN1951728 A	20070425	CN200610135746	20061017
JP2007112278 A2	20070510	JP20050305447	20051020
JP4657885 B2	20110323	JP20050305447	20051020
US2007090668 AA	20070426	US20060538951	20061005
US7360825 BB	20080422	US20060538951	20061005

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s):(std)**:** HONDA MOTOR CO LTD

Assignee(s): HONDA MOTOR CO

Inventor(s):(std)**:** HAMADA SHUHEI ; JUNICHI YOSHIOKA ; MASAYUKI WATARAI ; SHUHEI HAMADA ; SHUHEI YOSHIOKA JUNICHI WATARA ; WATARAI MASAYUKI ; YOSHIOKA JUNICHI

Inventor(s): YOSHIOKA JUNICHI WATARAI MASAYUKI HAMADA SHUHEI

Agent(s): RANKIN HILL PORTER AND CLARK LLP; RANKIN HILL AND CLARK LLP

International class(IPC 8–9)**:** B60J1/02 B60J10/08 B60K37/00 B60R13/07 B62D25/00 (Advanced/Invention); B60J1/02 B60J10/00 B60K37/00 B60R13/00 B62D25/00 (Core/Invention)

CPC: B60J10/70 B60J10/25

European class: B60J10/00D6 B60J10/02

US class: 296/203.03 296/205 296/208

Classification Explorer

Cited documents: US7168756 BB, US7118169 BB, US2006049669 AA, JP6211044 A2, JP6211044, JP5016420 U, JP5016420 U, JP10058967 A2, JP06211044, JP05016420 U,

Forward Citations: US9156431, US9010850, US8727427, US8690232, US8668251, US8622465, US8444211, US2011140481, US2011101735, US2010320796, GB2476144, DE102009057943, CN102092355,

Abstract:
Source: US2007090668A A drip molding supported by a pillar at a corner of the front or back of a vehicle, for draining waterdrops entering a side edge of a front or back windowpane. The drip molding has a base attached to the pillar; a part for sealing a gap between the base and the side edge; and a lip part extending from the base to the front surface of the windowpane to form a drainage path between the lip part and the windowpane. On the outside of the lip part, a bent surface is arranged so as to form an arc bending toward the front surface of the windowpane, and an inner face of the lip part is formed in a manner such that the larger a distance from the head toward the root of this part, the larger the distance between this inner face and the front surface of the windowpane.

0) US2007164585A – VEHICLE PILLAR GARNISH MOUNTING STRUCTURE

121) Family number: 34889560 (US2007164585A) © PatBase

Title: VEHICLE PILLAR GARNISH MOUNTING STRUCTURE

Priority: JP20050342008 20051128

Family:

Publication number	Publication date	Application number	Application date
JP2007145160 A2	20070614	JP20050342008	20051128
JP4260159 B2	20090430	JP20050342008	20051128
US2007164585 AA	20070719	US20060564009	20061128

Probable Assignee: NEWFREY LLC

Assignee(s):(std)**:** AISIN SEIKI ; SAGUCHI YUTAKA ; AOSHIMA YUUKI ; SUGIURA IZURU ; HASEGAWA MINORU ; SHIMIZU KEISUKE ; TOYOTA MOTOR CORP ; TOYOTA AUTO BODY CO LTD ; NIPPON POP RIVETS AND FASTENERS

Assignee(s): NEWFREY LLC ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA SHATAI KK ; TOYOTA JIDOSHA KK ; NIPPON POP RIVETS AND FASTENERS LTD ; AISIN SEIKI CO LTD ; AISIN SEIKI KABUSHIKI KAISHA ; AISIN SEIKI KK

Inventor(s):(std)**:** AOSHIMA TAKEKI ; SAGUCHI ATSUSHI ; SUGIURA SEI ; SUGIURA IZURU ; SHIMIZU KEISUKE ; SAGUCHI YUTAKA ; HASEGAWA MINORU ; AOSHIMA YUUKI

Agent(s): MILES AND STOCKBRIDGE PC

International class (IPC 8–9): B60J7/00 B60R13/02 (Advanced/Invention) ; B60J7/00 B60R13/02 (Core/Invention)

CPC: B60R13/04 B60R13/06 B60R13/07

European class: B60R13/04 L60R13/06 L60R13/07

US class: 296/193.06

Classification Explorer

Cited documents: US7144075 BB, US7140079 BB, US7052072 BB, US6854786 BB, US6050631 A, US5791716 A, US5783020 A, US5741044 A, US5345721 A, US5229175 A, US5202172 A, US5146658 A, US5096753 A, JP63016249 U, JP4104057 U, JP2002283932,

Forward Citations: WO17040838, US8348321, US7954885, US7758066, US2011089719, US2009250911, US2009218850, JP5151677, JP2009279991, FR2932742, EP2096000,

Abstract:
Source: US2007164585A A vehicle pillar garnish mounting structure has upper and lower retainers attached to the pillar. The pillar garnish has side edge flanges that are engaged with engagement parts at corresponding sides of the retainers. The retainers have an elongated block shape with U–shaped cross–section. The lower retainer has a hook unit that engages a cooperating part on a side edge flange of the pillar garnish to secure the pillar garnish to the hook unit.

0) US2007152473A – INDEPENDENTLY OPENING DOORS FOR AN AUTOMOTIVE D...

122) Family number: 34705769 (US2007152473A) © PatBase

Title: INDEPENDENTLY OPENING DOORS FOR AN AUTOMOTIVE DOOR OPENING

Priority: CA20062555740 20060801 US20050275182 20051216

Family:

Publication number	Publication date	Application number	Application date
CA2555740 AA	20070616	CA20062555740	20060801
CA2555740 C	20140415	CA20062555740	20060801
CN1982107 A	20070620	CN200610090300	20060713
CN1982107 B	20120523	CN200610090300	20060713
US2007152473 AA	20070705	US20050275182	20051216
US7488029 BB	20090210	US20050275182	20051216

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC

Assignee(s):(std)**:** FORD GLOBAL TECH LLC ; FORD MOTOR CO

Assignee(s): WELLS RICHARD J ; LECHKUN DAVID M ; FORD MOTOR COONE AMERICAN ROADDEARBORNMI48126US ; FORD GLOBAL TECHNOLOGIES LLC ; FORD GLOBAL TECHNOLOGIES LLC800 – 330 TOWN CENTER DR.FAIRLANE PLAZA SOUTHDEARBORNMI48126US ; FORD MOTOR COMPANY ; BERANEK JOHN M

Inventor(s):(std)**:** BERANEK JOHN M ; LECHKUN DAVID M ; WELLS RICHARD J ; LECHKUN DAVID M BERANEK JOHN M

Inventor(s): BERANEK JOHN ; WELLS RICHARD JUS ; LECHKUN DAVID MUS ; WELLS RICHARD ; BERANEK JOHN MUS ; LECHKUN DAVID

Agent(s): SIM AND MCBURNEY; BROOKS KUSHMAN PC FGTL; PORCARI DAMIAN; BROOKS KUSHMAN PC; DAMIAN

International class (IPC 8–9): B60J5/00 B60J5/04 E05B65/20 E05B83/38 E05C7/04 E05D15/02 (Advanced/Invention); B60J5/00 (Core/Invention)

CPC: B60J5/0479

European class: B60J5/04H5B

US class: 296/146.1 296/146.11 296/146.12 296/146.120P

Classification Explorer

Cited documents: USD146206 S1, US7178853 BB, US7144064 BB, US7097229 BA, US7096538 BB, US7000976 BB, US6997504 BA, US6966600 BB, US6942277 BB, US6913308 BB, US6851743 BB, US6827390 BB, US6817065 BA, US6629337 BB, US6609748 BA, US6550845 BA, US6386621 BA, US6382705 BA, US6328365 BA, US6305737 BA, US6224138 BA, US6213535 BA, US6196618 BA, US6196617 BA, US6183039 BA, US6089640 A, US6059352 A, US6053561 A, US6052870 A, US6030025 A, US6030024 A, US5951098 A, US5921613 A, US5906408 A, US5896704 A, US5876086 A, US5803516 A, US5772277 A, US5752737 A, US5749611 A, US573565 A, US5685046 A, US5663520 A, US5632065 A, US5577793 A, US5561887 A, US5551197 A, US5499853 A, US5491875 A, US5398988 A, US5347757 A, US5335958 A, US5316365 A, US5297841 A, US5282293 A, US5244247 A, US5140316 A, US4973103 A, US4952009 A, US4930836 A, US4773126 A, US4719665 A, US4655499 A, US4653229 A, US4650241 A, US4372603 A, US4358151 A, US4162097 A, US4143281 A, US3907357 A, US3873149 A, US3758990 A, US3757969 A, US3666305 A, US3600742 A, US3578990 A, US3272552 A, US3158395 A, US3150408 A, US3149864 A, US3085297 A, US2997336 A, US2937043 A, US2870477 A, US2827321 A, US2733096 A, US2567294 A, US2177826 A, US2084600 A, US2003111863 AA, US2003107237 AA, US2003097731 AA, US2002050026 AA, US1961205 A, US1951863 A, US1869274 A, US1676599 A, US1639037 A, US1634656 A, JP59170012 U1, JP59170012 U, JP59170012, JP5744075 A2, JP57044075 A2, JP5317226 U, JP5317226, JP53156214 U1, JP53156214 U, JP53156214, JP53017226 Y2, JP53017226 Y, JP53017226 U1, JP53017226, JP10109662 A2, GB621274 A, FR2634426 A1, EP0348034 A2, EP0342915 A2, EP0306349 A1, EP0220414 A2, DE3537304 A1, DE3343013 C2,

Forward Citations: US8342592, US8297689, US7845712, US2017247932, US2012313394, US2012153678, US2012049581, US2012049579, US2012049577, US2009096252, US2006249982,

TWI386322, EP2985161, EP2517912, CN102383707, CN102383707, CN102381162,

Abstract:
Source: US2007152473A An automotive vehicle is disclosed with a pillarless door opening for occupant ingress and egress. The first door is pivotally connected to the vehicle at a first end with a second end that extends to a central region of the door opening in the closed position. A second door has a first end translatably connected to the vehicle and a second end translatably connected to the vehicle adjacent to the central region of the opening at a closed position. The first door and the second door cooperate to close the opening. The second door can be translated relative to the vehicle to an intermediate position for providing clearance from the first door. One of the second door ends is detachable from the vehicle for pivoting the second door to an open position.

0) US2008012388A – GLASS MOUNTING STRUCTURE

123) Family number: 41017254 (US2008012388A) © PatBase

Title: GLASS MOUNTING STRUCTURE

Priority: JP20060175969 20060627

Family:

Publication number	Publication date	Application number	Application date
CN101096177 A	20080102	CN200710127302	20070627
DE102007015183 A1	20080103	DE200710015183	20070329
JP2008006837 A2	20080117	JP20060175969	20060627
US2008012388 AA	20080117	US20070769155	20070627

Probable Assignee: HINO MOTORS LTD

Assignee(s):(std)**:** HINO MOTORS LTD

Inventor(s):(std)**:** AKAGAWA TAKESHI ; KINOSHITA YUJI ; KINOSHITA YUUJI ; TAKESHI AKAGAWA ; YUUJI KINOSHITA

Agent(s): REED SMITH LLP ATTN PATENT RECORDS DEPARTMENT

International class (IPC 8–9)**:** B60J1/00 B60J1/02 B60J10/06 B60J10/79 B62D25/04 (Advanced/Invention); B60J1/00 B60J1/02 B60J10/02 B62D25/04 (Core/Invention)

CPC: B60J1/005 B60J1/006 B60J1/02

European class: B60J1/00F2 B60J1/00F3 B60J1/02

US class: 296/201

Classification Explorer

Cited documents: WO03008220 A1, US6467225 BA, US6460917 BB, US6378931 BA, US6224136 BA, US5695236 A, US5096255 A, US5027569 A, US4723809 A, US2224186 A, US2006267368 AA, US2001030449 AA, GB842657 A, DE2336375 A1,

DE202004020443 U1

Forward Citations: WO12017147, WO12017147, US9610981, US9205786, US8297681, US7976094, US2014145463, US2010225138, US2010117401, FR3040922, FR2962969, FR2955292, EP2226207, CN103732836, CN103732836,

Abstract:
Source: US2008012388A The present invention aims to provide a glass mounting structure that enables a glass to be mounted, preventing the breakage thereof. A locking member 52 is provided at a glass 13 closing an opening portion 11 a in a cab 11, a mounting portion 54 opposed to the locking member 52 is formed at the opening portion 11 a, and a locked member 57 is provided for mounting the glass 13 at the opening portion 11 a by locking the locking member 52 to the mounting portion 54. The locked member 57 is held by the locking member 52 in the state where the locking member 52 is movable with respect to the mounting portion 54. The locking member 51 is provided at least at either a lower portion inner surface or an upper portion inner surface in a side portion of the windshield glass 13.

0) US2008143138A – CONVERTIBLE VEHICLE COMPRISING AN UPWARDLY PROJ...

124) Family number: 41804968 (US2008143138A) © PatBase

Title: CONVERTIBLE VEHICLE COMPRISING AN UPWARDLY PROJECTING PILLAR PART OF THE ROOF

Priority: DE200610054395 20061118

Family:

Publication number	Publication date	Application number	Application date
DE102006054395 A1	20080521	DE200610054395	20061118
EP1923249 A2	20080521	EP20070021055	20071027
EP1923249 A3	20140917	EP20070021055	20071027
US2008143138 AA	20080619	US20070941484	20071116
US7758105 BB	20100720	US20070941484	20071116

Probable Assignee: VALMET AUTOMOTIVE OY

Assignee(s):(std)**:** KARMANN GMBH W ; VALMET AUTOMOTIVE OY

Assignee(s): WILHELM KARMANN GMBH

Inventor(s):(std)**:** SPICKERMANN CHRISTIAN ; SPICKERMANN CRISTIAN

Agent(s): KRONTHALER SCHMIDT AND COLL; GIFFORD KRASS SPRINKLE ANDERSON AND CITKOWSKI PC; GIFFORD KRASS SPINKLE ANDERSON AND CITKOWSKI PC; DOUGLAS L

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

International class (IPC 8–9)**:** B60J10/12 B60J10/82 B60J7/00 B60J7/12 B60J7/14 (Advanced/Invention); B60J10/00 B60J7/00 B60J7/08 (Core/Invention)

CPC: B60J7/0076

European class: B60J7/00E

US class: 296/107.01 296/107.18 296/193.06

Classification Explorer

Cited documents: US7367615 BA, US6796596 BB, US6796596 A, US6588824 BB, US6364395 BA, US6237986 BA, US5106145 A, US3419304 A, DE19930774 C1, DE19911541 B4, DE19704570 C2, DE19704570 A1, DE10317416 A1, DE10216891 C1,

DE102004010930 B3

DE10159302 C1, DE10112573 B4, DE10112573 A1, DE10065324 B4, DE10065324 A1,

Forward Citations: US7806459, US2008217954, DE102015117550,

Abstract:
Source: US2008143138A A stowable roof for a convertible vehicle is retractable from a closed state to an open state. The roof includes a pillar part which extends upwardly from the window beltline when the roof is in the closed state. The pillar part is movable rearwardly and downwardly when the roof is retracted to the open state. A guide track has at least a portion extending transversely inwardly. The pillar part engages the guide track such that the pillar part is guided transversely inwardly during retraction of the roof.

0) US2008122250A – SEALING SYSTEM OF B–PILLARLESS REAR SLIDING DOO...

125) Family number: 41824567 (US2008122250A) © PatBase

Title: SEALING SYSTEM OF B–PILLARLESS REAR SLIDING DOOR

Priority: DE200610055817 20061127

Family:

Publication number	Publication date	Application number	Application date
CN101191401 A	20080604	CN200710187553	20071126
CN101191401 B	20130508	CN200710187553	20071126
DE102006055817 A1	20080529	DE200610055817	20061127
DE502007006719 D1	20110428	DE200750006719T	20071112
EP1925479 A2	20080528	EP20070120444	20071112
EP1925479 A3	20080730	EP20070120444	20071112
EP1925479 B1	20110316	EP20070120444	20071112
US2008122250 AA	20080529	US20070944664	20071126
US7703837 BB	20100427	US20070944664	20071126

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC

Assignee(s):(std)**:** BENDEROTH THOMAS ; FORD GLOBAL TECH LLC ; LICHTER MARTIN

Assignee(s): FORD GLOBAL TECHNOLOGIES LLC

Inventor(s):(std)**:** BENDEROTH THOMAS ; LICHTER MARTIN ; THOMAS BENDEROTH ; MARTIN LICHTER

Agent(s): DOERFLER THOMAS; FORD GLOBAL TECHNOLOGIES LLC; GREGORY; BROOKS KUSHMAN PC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

International class (IPC 8–9): B60J10/08 B60J5/00 B60J5/04 B60J5/06 E06B3/16 E06B3/968 (Advanced/Invention); B60J10/00 B60J5/00 B60J5/04 B60J5/06 E06B3/04 E06B3/96 (Core/Invention)

CPC: B60J10/248 B60J10/87 B60J5/06

European class: B60J10/00D5E B60J10/08C2 B60J5/06

US class: 296/146.1 296/146.9 296/146.900P 296/155

Classification Explorer

Cited documents: WO04110799 A1, US6641205 BA, US6340199 BA, US4583796 A, US2007125003 AA, JP59034924 A2, FR2892345 A1, EP1275539 B1, EP1275539 A1, EP1057673 B1, EP1057673 A1, DE9321411 U, DE4314115 A1, DE10334143 A1,

Forward Citations: US8550537, US8491033, US8328269, US2017028829, US2012193938, US2012151843, US2012119538, US2012112494,

Abstract:
Source: US2008122250A The invention relates to a vehicle door for closing a door opening provided in a vehicle frame, and to a vehicle door system with the vehicle door according to the invention. The vehicle door has body panels, an inner panel which, in the fitted position, faces the vehicle interior, and an outer panel which, in the fitted position, faces away from the vehicle interior, said panels being connected fixedly to each other and delimiting a cavity. With the proviso of providing a vehicle door of the type mentioned at the beginning, which can be produced in a less complicated manner, it is proposed that an end panel for delimiting the cavity is provided as a further body panel at least on one narrow side of the vehicle door, and that the end panel is connected fixedly laterally to the outer panel and the inner panel.

0) FR2914230B – STRUCTURE DE VEHICULE AUTOMOBILE ADAPTEE EN CAS...

126) Family number: 42259361 (FR2914230B) © PatBase

Title: STRUCTURE DE VEHICULE AUTOMOBILE ADAPTEE EN CAS DE CHOC FRONTAL

Priority: FR20070054093 20070328

Family:

Publication number	Publication date	Application number	Application date
FR2914230 A1	20081003	FR20070054093	20070328
FR2914230 B1	20090626	FR20070054093	20070328

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES SA SOCIETE ANONYME ; PEUGEOT CITROEN AUTOMOBILES SOC ANONYME SA

Inventor(s):(std)**:** DELAMARE JEAN LUC ; TINE LAURENT

Inventor(s): JEAN LUC DELAMARE ; LAURENT TINE

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

International class (IPC 8–9)**:** B60J5/04 B60R21/02 (Advanced/Invention); B60J5/04 B60R21/02 (Core/Invention)

CPC: B60J5/0426 B60J5/0462 B60J5/0479

European class: B60J5/04E2B3 B60J5/04E8E B60J5/04H5B

Classification Explorer

Cited documents: US6332641 BA, US2003042754 AA, JP57041209 A2, JP2003011669 A2, GB2384214 A1, FR2859137 A1, EP0425059 A1,

Forward Citations: DE102011119539,

Abstract:
The structure has a lateral access opening delimited by a front structural foot (16) and a rear structural foot (18). A front lateral door (24) and a rear lateral door (26) extend between the respective foots. Elongated reinforcement bars (60, 62) are fixed on the doors and has ends (71, 72) are arranged opposite to the foots, respectively, where the bars are aligned in a same plane between the foots. The bars have axial support surfaces at their ends (73, 74) that are opposite to one other, where the surfaces are supported one against another when a vehicle is subjected to a front impact.

0) US2011099912A – VEHICLE DOOR FRAME STRUCTURE

127) Family number: 42348662 (US2011099912A) © PatBase

Title: VEHICLE DOOR FRAME STRUCTURE

Priority: JP20070093368 20070330 JP20070095437 20070330 JP20070117907 20070427 JP20090245582 20091026 WO2008JP56047 20080328

Family:

Publication number	Publication date	Application number	Application date
CN101663177 A	20100303	CN200880010603	20080328
CN101663177 B	20121121	CN200880010603	20080328
JP2008247283 A2	20081016	JP20070093368	20070330
JP2008254460 A2	20081023	JP20070095437	20070330
JP2008273343 A2	20081113	JP20070117907	20070427
JP2010047256 A2	20100304	JP20090245582	20091026
JP4430687 B2	20100310	JP20070095437	20070330
JP5043091 B2	20121010	JP20090245582	20091026
JP5154816 B2	20130227	JP20070093368	20070330
JP5224714 B2	20130703	JP20070117907	20070427
US2011099912 AA	20110505	US20080593645	20080328
US8458959 BB	20130611	US20080593645	20080328
WO08123409 A1	20081016	WO2008JP56047	20080328

Probable Assignee: SHIROKI CORP

Assignee(s):(std)**:** MURATA KENJI ; OHSAWA SHIGENOBU ; OHTAKE YASUHIRO ; SHIROKI CORP ; YOSHIHARA JIRO

Assignee(s): SHIROKI KOGYO CO LTD

Inventor(s):(std)**:** JIRO YOSHIHARA ; KENJI MURATA ; MURATA KENJI ; OHSAWA SHIGENOBU ; OHTAKE YASUHIRO ; SHIGENOBU OHSAWA ; YASUHIRO OHTAKE ; YOSHIHARA JIRO ; OTAKE YASUHITO ; OSAWA SHIGENOBU ; MURATA AKIYUKI

Agent(s): MILLEN WHITE ZELANO BRANIGAN P C; MILLEN WHITE ZELANO BRANIGAN PC; MIURA KUNIO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J5/04 (Advanced/Invention); B60J5/04 (Core/Invention)

CPC: B60J10/21 B60J10/86 B60J10/88 B60J5/0402

European class: B60J10/00D1 B60J10/08C B60J10/08C3 B60J5/04B2

US class: 49/479.1 49/502 49/502P

Classification Explorer

Cited documents: WOJP56047, WO08123409 A1, US7390050 BB, US7350849 BB, US7152373 BB, US7093393 BB, US6802666 BA, US5839232 A, US5718084 A, US5566510 A, US5524388 A, US5493814 A, US5127193 A, US4956941 A, US4910918 A, US4838607 A, US4729593 A, US2007084130 AA, US2005204634 AA, US2004221512 AA, US2004123526 AA, US20040123526, US1914216 A, US0123526, JPS57109014 U, JP57109014 U1, JP57109014 U, JP3276817 A2, JP3276817, JP200762637, JP200762637, JP2007062637 A2, JP2007062637, JP200607852, JP2006007852 A2, JP2006007852, JP2005313697 A2, JP2005313697, JP2005153767 A2, JP2005153767, JP2004338612 A2, JP2004338612, JP200372383, JP200372383, JP2003072383 A2, JP2003072383, JP2002127749 A2, JP2002127749, JP2001253239 A2, JP2001253239, JP1159185 A2, JP1159185, JP1159185, JP11059185 A2, JP11059185, JP1035284, JP10035284 A2, JP10035284, DE19961873 A1, DE19961873, DE10041187 A1,

DE10041187,

Forward Citations: WO16108143, WO13015271, WO13015270, US9776480, US9764625, US9656538, US9649921, US9649915, US9618123, US9566850, US9505294, US9383016, US9186964, US9027285, US8851552, US8801070, US8651557, US8458959, US8424953, US8282154, US8172125, US2016280054, US2016257183, US2016214469, US2016214468, US2016167491, US2016073527, US2015292624, US2015266364, US2015130214, US2015007504, US2014367923, US2014157602, US2014137480, US2014132028, US2013232881, US2013161976, US2013127196, US2011308171, US2010270830, JP6105910, JP5651656, JP5390835, JP2014151659, JP2014104872, JP2014088077, JP2014046792, JP2013023130, JP2010116043, JP2010111157, EP2343205, EP2343205, CN105172552, CN103786555,

Abstract:
Source: US2011099912A A vehicle door frame structure has an upper sash member located along a roof panel of a vehicle body and also has a vertical pillar sash member located along a center pillar of the vehicle body. The upper sash member has, at its linear end joined to the vertical pillar sash member side, an aesthetically designed section and an inner frame portion. The aesthetically designed section is located on the outer side of the door, and the inner frame portion is located closer to the vehicle interior than the aesthetically designed section and is shorter in length than the aesthetically designed section. The vertical pillar sash member has at its upper end a superposed contact section that is superposed, in the direction of the thickness of the door, on an end of the inner frame portion of the upper sash member, and the superposed contact section and the inner frame portion are joined together while being superposed on each other.

0) US2008296928A – PILLAR TRIM FOR MOTOR VEHICLE

128) Family number: 42591533 (US2008296928A) © PatBase

Title: PILLAR TRIM FOR MOTOR VEHICLE

Priority: JP20070145815 20070531 JP20070145816 20070531 JP20070145891 20070531

Family:

Publication number	Publication date	Application number	Application date
EP1997692 A2	20081203	EP20080009841	20080529
EP1997692 A3	20081217	EP20080009841	20080529
JP2008296767 A2	20081211	JP20070145815	20070531
JP2008296768 A2	20081211	JP20070145816	20070531
JP2008296776 A2	20081211	JP20070145891	20070531
JP4901587 B2	20120321	JP20070145815	20070531
JP4968646 B2	20120704	JP20070145816	20070531
JP5148927 B2	20130220	JP20070145891	20070531
US2008296928 AA	20081204	US20080129721	20080530
US7963551 BB	20110621	US20080129721	20080530

Probable Assignee: DAIKYONISHIKAWA CORP

Assignee(s):(std)**:** DAIKYO NISHIKAWA CORP ; DAIKYO NISHIKAWA KK ; DAIKYONISHIKAWA CORP ; DAIKYONISHIKAWA KK ; MAZDA MOTOR

Assignee(s): MAZDA MOTOR CO ; MAZDA MOTOR CORP

Inventor(s):(std)**:** ONISHI IKUKO ; MATSUOKA DAISUKE

Agent(s): STUDEBAKER AND BRACKETT PC; DONALD R

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

International class(IPC 8–9)**:** B60J7/00 B60J9/00 B60R13/02 B60R21/16 B60R21/20 B60R21/213 (Advanced/Invention); B60R13/02 (Advanced/Non–invention); B60R13/02 B60R21/20 (Core/Invention)

CPC: B60R13/025 B60R13/0275 B60R13/06 B60R21/213 B60R2013/0287 B60R2013/0293 B60R2021/161

European class: B60R13/02D4 B60R21/213 L60R13/02P L60R13/02R L60R13/02T L60R13/06 L60R21/16C

US class: 280/728.2 280/728.200S 280/730.2 296/146.7 296/146.700P 296/187.12 296/193.06

Classification Explorer

Cited documents: US7172211 BB, US2005236818 AA, US2001052210 AA, JP3866733 B2, JP3866733 B2, JP2007253932 A2, JP2007253932, JP2005313674 A2, JP2005313674, JP2003104158 A2, JP2003104158, JP2002362290 A2, JP2002362290, JP2002059802 A2, JP2002059802, EP1640222 A1,

Forward Citations: US9783150, US9656615, US9586554, US9446732, US9266491, US9248800, US9033388, US8746733, US8702124, US8534744, US8128161, US2017174150, US2017057426, US2016362072, US2013313848, US2013249198, US2013069349, US2011089673, GB2474555, GB2474555, EP2189234, DE102009049366, DE102009049365, CN102039854,

Abstract:
Source: US2008296928A A pillar trim on the vehicle–interior side of a pillar includes a pillar trim body located below an airbag and connected at its upper end part to the lower end of a top sealing member. A plurality of guide platforms are raised from the upper end part of the pillar trim body at spaced intervals in the vehicle front–to–rear direction to guide the inflation of the airbag towards the vehicle interior. The basal ends of each adjacent guide platforms are joined by a connecting part between the adjacent guide platforms. A groove for receiving the lower end of the top sealing member is formed between the vehicle–interior sides of the guide platforms and the pillar trim body. A through hole is vertically formed at least between the connecting part and the pillar trim body to open into the groove.

0) FR2917050B – STRUCTURE DE VEHICULE AUTOMOBILE MUNIE DE MOYEN...

129) Family number: 42665231 (FR2917050B) © PatBase

Title: STRUCTURE DE VEHICULE AUTOMOBILE MUNIE DE MOYENS DE REPARTITION ET DE TRANSMISSION D'EFFORTS

Priority: FR20070055572 20070607

Family:

Publication number	Publication date	Application number	Application date
FR2917050 A1	20081212	FR20070055572	20070607
FR2917050 B1	20090904	FR20070055572	20070607

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES SA SOCIETE ANONYME ; PEUGEOT CITROEN AUTOMOBILES SOC ANONYME SA

Inventor(s):(std)**:** DELAMARE JEAN LUC ; TINE LAURENT

Inventor(s): JEAN LUC DELAMARE ; LAURENT TINE

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

International class (IPC 8–9)**:** B60J5/04 B60R21/02 B62D25/04 (Advanced/Invention); B60J5/04 B60R21/02 B62D25/04 (Core/Invention)

CPC: B60J5/0426 B60J5/043 B60J5/0458 B60J5/0462 B60J5/0479 B62D21/157 B62D25/04

European class: B60J5/04E2B10 B60J5/04E2B3 B60J5/04E8B B60J5/04E8E B60J5/04H5B B62D21/15B B62D25/04

Classification Explorer

Cited documents: US6332641 BA, US6059352 A, US2004056509 AA, FR2815925 A1,

Forward Citations: JP6058425, JP2014162441, JP2014162440, GB2521361,

Abstract:
The structure (10) has antagonist opening–type front and rear side doors equipped with rear and front edges (44, 46), respectively. Front and rear reinforcement bars (72, 76) are fixed on the doors, respectively. Effort distributing and transmitting units are arranged opposite to a rear edge (88) and a front edge (96) of the bars (72, 76), respectively and a median reinforcement bar (74) for receiving part of efforts issued from a frontal impact and transmitted by the rod (72), and managing the part of efforts towards the rods (74, 76), during frontal impact subjected by a motor vehicle (12).

0) FR2917049B – STRUCTURE DE VEHICULE AUTOMOBILE POUR CHOC FRON...

130) Family number: 42667376 (FR2917049B) © PatBase

Title: STRUCTURE DE VEHICULE AUTOMOBILE POUR CHOC FRONTAL

Priority: FR20070055571 20070607

Family:

Publication number	Publication date	Application number	Application date
FR2917049 A1	20081212	FR20070055571	20070607
FR2917049 B1	20090904	FR20070055571	20070607

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES SA SOCIETE ANONYME ; PEUGEOT CITROEN AUTOMOBILES SOC ANONYME SA

Inventor(s):(std)**:** DELAMARE JEAN LUC ; TINE LAURENT

Inventor(s): JEAN LUC DELAMARE ; LAURENT TINE

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

International class (IPC 8–9)**:** B60J5/04 B60R21/02 B62D25/04 (Advanced/Invention); B60J5/04 B60R21/02 B62D25/04 (Core/Invention)

CPC: B60J5/0426 B60J5/043 B60J5/0462 B60J5/0479 B60R21/0428

European class: B60J5/04E2B10 B60J5/04E2B3 B60J5/04E8E B60J5/04H5B B60R21/04F

Classification Explorer

Cited documents: US6332641 BA, US2004056509 AA, FR2859137 A1, EP1340641 A1, DE10119131 A1,

Forward Citations: DE102011119539,

Abstract:
The structure (10) has an antagonist opening–type front and rear side doors that are extended between a front pillar (16) and a rear pillar (18) and equipped with a rear edge (44) and a front edge (46), respectively. The edges are cooperated with each other in a closed position of the doors. A front reinforcement bar (60) and a rear reinforcement bar (62) are fixed on the front and rear doors, respectively. The bars have axial support surfaces for supporting each other when the frontal impact subjected by a motor vehicle (12).

0) FR2917048B – STRUCTURE DE VEHICULE AUTOMOBILE ADAPTEE POUR U...

131) Family number: 42666765 (FR2917048B) © PatBase

Title: STRUCTURE DE VEHICULE AUTOMOBILE ADAPTEE POUR UN CHOC LATERAL

Priority: FR20070055568 20070607

Family:

Publication number	Publication date	Application number	Application date
FR2917048 A1	20081212	FR20070055568	20070607
FR2917048 B1	20091218	FR20070055568	20070607

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES SA SOCIETE ANONYME ; PEUGEOT CITROEN AUTOMOBILES SOC ANONYME SA

Inventor(s):(std)**:** DELAMARE JEAN LUC ; TINE LAURENT

Inventor(s): JEAN LUC DELAMARE ; LAURENT TINE

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

International class (IPC 8–9)**:** B60J5/04 B60R21/02 B62D25/04 (Advanced/Invention); B60J5/04 B60R21/02 B62D25/04 (Core/Invention)

CPC: B62D21/157 B60J5/0429 B60J5/043 B60J5/0479 B62D25/025 B62D25/04

European class: B60J5/04E2B10 B60J5/04E2B7 B60J5/04H5B B62D21/15B B62D25/02B B62D25/04

Classification Explorer

Cited documents: WO07010381 A1, US2004104602 AA, FR2377299 A1, EP1418076 A1, EP0577007 A2, DE10119131 A1,

Forward Citations: WO14096590, JP2015168355, GB2521361, FR3000006,

Abstract:
The structure (10) has tubular and/or sectioned vertical and diagonal reinforcement bars (68, 70) fixed on opening frames e.g. antagonist opening type front and rear lateral doors. An understructure crosspiece is arranged opposite to a longitudinal lower part (20). Effort transmission units are fixed on lower and front ends (80, 82) of the bars and fixed opposite to the crosspiece. The units receive a part of efforts issued from lateral impacts and transmitted by the bars, and direct another part of the efforts towards the crosspiece when the impact is subjected by a motor vehicle (12).

0) FR2917047B – STRUCTURE DE VEHICULE AUTOMOBILE RESISTANT AUX ...

132) Family number: 42666002 (FR2917047B) © PatBase

Title: STRUCTURE DE VEHICULE AUTOMOBILE RESISTANT AUX CHOCS LATERAUX

Priority: FR20070055558 20070607

Family:

Publication number	Publication date	Application number	Application date
FR2917047 A1	20081212	FR20070055558	20070607
FR2917047 B1	20090904	FR20070055558	20070607

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES SA SOCIETE ANONYME ; PEUGEOT CITROEN AUTOMOBILES SOC ANONYME SA

Inventor(s):(std)**:** DELAMARE JEAN LUC ; TINE LAURENT

Inventor(s): JEAN LUC DELAMARE ; LAURENT TINE

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

International class (IPC 8–9)**:** B60J5/04 B60R21/02 B62D25/04 (Advanced/Invention); B60J5/04 B60R21/02 B62D25/04 (Core/Invention)

CPC: E05B77/02 B62D25/02 B60J5/0433 B60J5/0479 E05B17/2088 E05B83/38 E05B85/045

European class: B60J5/04E2B14 B60J5/04H5B B62D25/02 E05B83/38 E05B85/045 P05B17/20G2

Classification Explorer

Cited documents: US6749253 BA, JP2001138864 A2, EP1410956 A1, EP1068970 A1,

Forward Citations: FR3033353, DE102008046003,

Abstract:
The structure (10) has an opening frame (26) i.e. antagonist opening type lateral door, extended between front and rear structural pillars (16, 18) and including an anti–intrusion pin that is transversally penetrated in a recess i.e. opening, integrated to the structure when the door is closed. A lower lock (52) maintains the door in closed position and has a strike plate fixed on a lower part (20). The lock has a strike plate reinforcement i.e. pressed or folded sheet that is integrated to the lower part, and the recess is provided in the reinforcement.

0) US2009039673A – SLIDE DOOR APPARATUS FOR VEHICLE

133) Family number: 42911195 (US2009039673A) © PatBase

Title: SLIDE DOOR APPARATUS FOR VEHICLE

Priority: JP20070204524 20070806

Family:

Publication number	Publication date	Application number	Application date
EP2022920 A1	20090211	EP20080161836	20080805
JP2009041197 A2	20090226	JP20070204524	20070806
US2009039673 AA	20090212	US20080181005	20080728

Probable Assignee: AISIN SEIKI KK

Assignee(s):(std)**:** AISIN SEIKI

Assignee(s): AISIN SEIKI CO LTD ; AISIN SEIKI KK ; AISIN SEIKI KABUSHIKI KAISHA

Inventor(s):(std)**:** FUKUMOTO RYOICHI ; OKADA HIROKI

Agent(s): TBK–PATENT; BUCHANAN INGERSOLL AND ROONEY PC

Designated states: AL BA DE FR GB MK RS

International class (IPC 8–9)**:** B60J5/04 B60J5/06 E05F11/04 E05F3/14 E05F5/00 (Advanced/Invention); B60J5/04 B60J5/06 E05F11/00 E05F3/00 E05F5/00 (Core/Invention)

CPC: E05F5/003 E05Y2201/21 E05Y2201/654 E05Y2201/664 E05Y2900/531

European class: E05F5/00A P05Y201/21 P05Y201/654 P05Y201/664 P05Y900/531

US class: 296/155 296/155P

Classification Explorer

Cited documents: JP2006169718 A2,

Forward Citations: US9567790, US2016201375, US2015057895,

Abstract:
Source: US2009039673A A slide door apparatus for a vehicle includes a reel member disposed at one of a vehicle body and a slide door for opening and closing a door opening formed in the vehicle body and a rope member reeled by the reel member and connected at a terminal end of the rope member to the other of the vehicle body and the slide door. The rope member is unreeled from the reel member so as to rotate the reel member in one direction and reeled within the reel member in accordance with a rotation of the reel member by means of a biasing force in the other direction. The slide door apparatus also includes a rotating device including an internal rotor rotating in accordance with the rotation of the reel member and generating a rotating load depending on a rotating speed of the internal rotor.

0) US2009160220A – MOTOR VEHICLE WINDOW ASSEMBLY

134) Family number: 43430748 (US2009160220A) © PatBase

Title: MOTOR VEHICLE WINDOW ASSEMBLY

Priority: US20070959887 20071219

Family:

Publication number	Publication date	Application number	Application date
US2009160220 AA	20090625	US20070959887	20071219

Probable Assignee: ATWOOD MOBILE PRODUCTS LLC

Assignee(s):(std)**:** ATWOOD MOBILE PRODUCTS LLC

Assignee(s): GE BUSINESS FINANCIAL SERVICES INC ADMINISTRATIVE ; GE BUSINESS FINANCIAL SERVICES INC ADMINISTRATIVE AGENT AS

Inventor(s):(std)**:** ELIJAH WILLIAM GLEN

Agent(s): BANNER AND WITCOFF LTD

International class(IPC 8–9)**:** B60J1/08 E06B1/04 F16J15/00 (Advanced/Invention); B60J1/08 E06B1/04 F16J15/00 (Core/Invention)

CPC: B60J5/0402 B60J5/0487 E05Y2900/506 E05Y2900/55

European class: B60J5/04B2 B60J5/04K2 P05Y900/506 P05Y900/550

US class: 277/650 277/650S 296/201 296/201P 52/213 52/213S

Classification Explorer

Cited documents: US6572176 BB, US6571513 BB, US6223470 BA, US5557890 A, US5027556 A, US5016396 A, US5007201 A, US4653230 A, US4034509 A, US2007089371 AA, US2005188622 AA, US2001034976 AA,

Abstract:
Source: US2009160220A A motor vehicle window assembly includes a first window frame member and a stationary pane received by the first window frame member. A window frame retainer member is secured at a first end thereof to the first window frame member. A second end of the window frame retainer member is secured to a second window frame member. A movable pane is movable along the second window frame member. The first and second window frame members are proximate one another and free of any structural members therebetween.

0) US2009206615A – CANCEL LEVER FOR CLAM SHELL VEHICLE DOORS

135) Family number: 43633699 (US2009206615A) © PatBase

Title: CANCEL LEVER FOR CLAM SHELL VEHICLE DOORS

Priority: US20080033104 20080219 US20100948115 20101117

Family:

Publication number	Publication date	Application number	Application date
US2009206615 AA	20090820	US20080033104	20080219
US2011056138 AA	20110310	US20100948115	20101117
US7950704 BB	20110531	US20080033104	20080219
US8231154 BB	20120731	US20100948115	20101117

Probable Assignee: NISSAN MOTOR CO LTD

Assignee(s):(std)**:** KOVIE DAVID ; NISSAN NORTH AMERICA INC ; NISSAN TECH CT NORTH AMERICA

Assignee(s): NISSAN TECHNICAL CENTER NORTH AMERICA INC ; NISSAN MOTOR CO LTD

Inventor(s):(std)**:** KOVIE DAVID

Agent(s): YOUNG BASILE; YOUNG BASILE HANLON AND MACFARLANE PC

International class(IPC 8–9)**:** B60J5/06 E05B1/00 E05B3/00 E05C19/00 E06B3/34 (Advanced/Invention); B60J10/08 (Advanced/Non–invention); E05B1/00 E06B3/32 (Core/Invention)

CPC: Y10S292/21 Y10S292/65 Y10T292/57 E05B83/38 E05B77/52

European class: E05B83/38 P05B77/52

US class: 292/336.3 292/336.300P 292/DIG.21 292/DIG.65 296/146.1 296/146.9 49/366 49/366P 49/381 49/381S

Classification Explorer

Cited documents: US7950704 BB, US7309100 BB, US7182392 BB, US6752440 BB, US6533346 BB, US5803516 A, US3280510 A, US3243222 A,

Forward Citations: US9073413, US8870263, US8328269, US8292348, US8231154, US8132849, US2014312650, US2012193938, US2011204681, US2011089715, US2011056138, JP5809431, JP2012215034,

Abstract:
Source: US2009206615A A door assembly for a vehicle body including a portal having a first end and a second end. A first door and a second door are pivotably coupled to the first end and the second end, respectively, of the portal. The first door includes an end panel opposite the first end of the portal, and a pivot is fixed to the end panel. A cancel lever is rotatably coupled to the pivot, and the cancel lever is arranged to be contacted by the second door at any location within a zone of contact determined by the relative positions of the first and second doors such that a force applied to the cancel lever by the second door includes a component perpendicular to a radius of the cancel lever at the point of contact.

0) US2012090240A – ACTUATION METHOD FOR AN ELECTRIC WINDOW WINDER ...

136) Family number: 45026258 (US2012090240A) © PatBase

Title: ACTUATION METHOD FOR AN ELECTRIC WINDOW WINDER

Priority: DE200810058588 20081122 EP20090771693 20091104 WO2009EP07886 20091104

Family:

Publication number	Publication date	Application number	Application date
DE102008058588 A1	20100930	DE200810058588	20081122
DE502009004573 D1	20121025	DE200950004573T	20091104
EP2361191 A2	20110831	EP20090771693	20091104
EP2361191 B1	20120829	EP20090771693	20091104
ES2391376 T3	20121123	ES20090771693T	20091104
US2012090240 AA	20120419	US20090127991	20091104
US8661735 BB	20140304	US20090127991	20091104
WO10057577 A2	20100527	WO2009EP07886	20091104
WO10057577 A3	20100722	WO2009EP07886	20091104

Probable Assignee: BROSE FAHRZEUGTEILE

Assignee(s):(std)**:** BROSE FAHRZEUGTEILE ; ZELLMER RENE

Assignee(s): BROSE FAHRZEUGTEILE GMBH AND CO ; BROSE FAHRZEUGTEILE GMBH AND CO HALLSTADT KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCHAFT

Inventor(s):(std)**:** ZELLMER RENE

Agent(s): FDST PATENTANWAELTE; ISERN JORGE; MENDELSOHN DRUCKER AND DUNLEAVY PC; STEVE; FREIER RUEDIGER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/14 B60J1/17 E05F11/38 E05F15/00 E05F15/20 (Advanced/Invention); B60J1/12 B60J1/17 E05F15/00 E05F15/20 (Core/Invention)

CPC: E05Y2900/00 B60J1/14 B60J1/17 E05Y2400/415 E05Y2400/54 E05Y2400/554 E05Y2400/57 E05Y2900/508 E05Y2900/55 E05F15/40 E05F15/41 E05Y2900/50

European class: B60J1/14 B60J1/17 E05F15/00B1 P05Y400/415 P05Y400/54 P05Y400/554 P05Y400/57 P05Y900/508 P05Y900/550

US class: 296/146.2 49/28 49/31 49/31P 49/349 49/502 49/506 49/506S

Classification Explorer

Cited documents: WO0153124 A1, US6867562 BB, US6773053 BB, US6733065 BB, US6630807 BB, US6601905 BA, US6297609 BA, US6246199 BA, US5451849 A, US5110175 A, US4884070 A, US2011192088 AA, US2008266051 AA, US2007055415 AA, US2003116994 AA, US2003052635 AA, DE4325501 A1,

DE202006003285 U1

CH176787 A,

Forward Citations: US9302566, US9015993, US8756863, US8590210, US2015275562, US2015101249, US2011314737, US2011192088, DE102012018703,

Abstract:
Source: US2012090240A The invention, in certain embodiments, specifies an actuation method for an electric window winder (10) of a front window (1) of a vehicle (3) without a B–pillar and with a moveable rear window (2), which actuation method allows all the windows to be closed in a particularly rapid and reliable manner. According to the method, provision is made for the front window (1) to be closed by the window winder (10), taking into consideration a trapping–prevention means (25). Furthermore, a closing condition is checked during the actuation

method. If, on account of this closing condition, it can be assumed that trapping prevention–related reversing of the front window (1) has been caused by a collision with the rear window (2), the front window (1) is closed again after the trapping prevention–related reversing operation.

137) Family number: 43550364 (US2012133174A) © PatBase

Title: WINDOW ASSEMBLIES FOR VEHICLES, AND DOOR ASSEMBLIES AND VEHICLES INCLUDING THE SAME

Priority: GB20090008721 20090520 WO2010GB01018 20100520

Family:

Publication number	Publication date	Application number	Application date
EP2432653 A2	20120328	EP20100721539	20100520
GB200908721 A0	20090701	GB20090008721	20090520
US2012133174 AA	20120531	US20100321514	20100520
US8727419 BB	20140520	US20100321514	20100520
WO10133850 A2	20101125	WO2010GB01018	20100520
WO10133850 A3	20110210	WO2010GB01018	20100520
WO10133850 A8	20101223	WO2010GB01018	20100520

Probable Assignee: ASTON MARTIN LAGONDA LTD

Assignee(s):(std)**:** ASTON MARTIN LAGONDA LTD ; JENKINS ADRIAN CHARLES MORGAN ; SYVRET ANDREW JOHN ; WALSH WILLIAM MANUEL

Assignee(s): ASTON MARTIN LAGONDA LIMITED

Inventor(s):(std)**:** JENKINS ADRIAN CHARLES MORGAN ; WALSH WILLIAM MANUEL ; SYVRET ANDREW JOHN

Agent(s): MILLER JAMES LIONEL WOOLVERTON; DORSEY AND WHITNEY LLP; MILLER JAMES LIONEL WOOLVERTON ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/00 B60J1/08 B60J1/16 B60J1/20 B60J10/02 E05F11/38 (Advanced/Invention)

CPC: B60J1/17 E05F11/485 E05F11/486 E05F17/00 E05Y2201/214 E05Y2201/24 E05Y2900/55 E05F15/689

European class: B60J1/17 E05F11/48B2B E05F11/48B2D E05F15/16C E05F17/00 P05Y201/214 P05Y201/232 P05Y201/24 P05Y900/550

US class: 296/146.16 296/146.160S 296/146.2 296/146.200P

Classification Explorer

Cited documents: US6803733 BA, US5685596 A, US5593202 A, US5456516 A, US4842327 A, US4828317 A, US4811517 A, US4796943 A, US4776630 A, US4761916 A, US4729592 A, US4502248 A, US3816963 A, US3788005 A, US3733748 A, US3670454 A, US3273285 A, US2955817 A, US2863658 A, US2253805 A, US2010156138 AA, JP55004212 A2, GB1418255 A, GB1311934 A, DE3635924 A1, DE3428610 A1,

Forward Citations: US9556662, US9137856, US9033394, US8708396, US2015111489, US2014138369, US2014041302, US2012136532, EP2792518,

Abstract:
Source: US2012133174A A window assembly (118) comprises: a window regulator (144) for driving a main window (124) up and down, a connection system (196) with a latch (198), a division bar (122), and quarter–light window (206) which may be driven down by the regulator (144) to a controlled index position at which the latch (198) disengages such that the quarter–light may be left in a slightly lowered index position while the main window may be further lowered, the latch reengaging once the main window is raised again, the raising and lowering of the quarter–light window (120) enabling the quarter–light to securely engage with a seal (246) positioned between its top edge (204) and an A–pillar (106) of the vehicle (100) and also allowing a door to which the assembly to be opened and closed without interference between the quarter–light and the seal (246).

0) US2011148139A – PILLAR COVER WITH FIXEDLY ALLOTTED COVER LIP

138) Family number: 47909473 (US2011148139A) © PatBase

Title: PILLAR COVER WITH FIXEDLY ALLOTTED COVER LIP

Priority: DE200910026069 20090629 EP20100167589 20100628

Family:

Publication number	Publication date	Application number	Application date
BRPI1002599 A2	20120313	BR2010PI02599	20100628
CN101934766 A	20110105	CN201010220768	20100629
DE102009026069 A1	20101230	DE200910026069	20090629
DE102009026069 B4	20130725	DE200910026069	20090629
DE502010002938 D1	20130613	DE201050002938T	20100628
EP2269873 A1	20110105	EP20100167589	20100628
EP2269873 B1	20130417	EP20100167589	20100628
IN00683KO2010 A	20121019	IN2010KO00683	20100625
KR20110001966 A	20110106	KR20100062213	20100629
MX2010007134 A1	20110105	MX20100007134	20100625
US2011148139 AA	20110623	US20100823026	20100624
US8360493 BB	20130129	US20100823026	20100624

Probable Assignee: DURA AUTOMOTIVE HOLDINGS UK LTD

Assignee(s):(std): BITTNER NORFRIED ; DURA AUTOMOTIVE BODY AND GLASS ; GERNDORF RALF ; NUSKEN AXEL ; SCHULTE MARTIN ; SCHULZE ZUR WIESCHE JOCHEN

Assignee(s): DURA AUTOMOTIVE BODY AND GLASS SYSTEMS GMBH ; DURA AUTOMOTIVE HOLDINGS UK LTD

Inventor(s):(std): AXEL NUSKEN ; BITTNER NORFRIED ; GERNDORF RALF ; JOCHEN SCHULZEZUR WIESCHE ; MARTIN SCHULTE ; NORFRIED BITTNER ; NUESKEN AXEL ; RALF GERNDORF ; SCHULTE MARTIN ; SCHULZE ZUR WIESCHE JOCHEN ; ZUR WIESCHE JOCHEN SCHULZE ; WIESCHE JOCHEN SCHULZE ZUR ; SKEN AXEL NA ; NUSKEN AXEL ; JOCHEN SCHULZE ZUR WIESCHE ; AXEL NUESKEN

Inventor(s): AXEL NAœSKEN ; AXEL NA SKEN ; SCHULZE ZUR WIESCHE JOCHEN 51143 ; SCHULTE MARTIN 58802 ; NUESKEN AXEL 58762 ; GERNDORF RALF 57413 ; BITTNER NORFRIED 58452

Agent(s): BUNGARTZ CHRISTOPHERSEN PARTNERSCHAFT MBB PATENTANWAELTE; TERSTEEGEN FELIX; STETINA BRUNDA GARRED AND BRUCKER

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8–9): B60J5/04 B60R13/02 B60R13/04 B60R13/06 B62D25/04 (Advanced/Invention); B60N2/00 (Core/Invention)

CPC: B60R13/04 B60R13/06 B60R13/07 B62D25/04 B60J5/04

European class: B60R13/04 B60R13/06 B60R13/07

US class: 296/1.08 296/146.7 296/146.700P

Classification Explorer

Cited documents: WO08133115 A1, US8127501 BB, US7210730 BB, US6279987 BA, US6205712 BA, US6103168 A, US572545 A, US5199761 A, US5168668 A, US5092078 A, US5072545 A, US4703973 A, US4650240 A, JP2009023630 A2, JP2004338522 A2, EP1584517 A2, EP0684158 B1, EP0684158 A1, DE4142599 A1, DE20201528 U1, DE19741538 A1, DE19736899 A1,

DE102006022505 A1

Forward Citations: US9457736, US9421922, US9033387, US2014375073, US2013140840,

Abstract:
Source: US2011148139A The invention relates to a pillar finisher which is arranged to visually conceal regions of

a vehicle body and with its outer exposed surfaces to be involved in forming the external appearance of a vehicle, wherein the pillar finisher in the intended final installed state forms a mount for a functional seal, in particular a window drop seal. To prevent a malposition of the functional seal relative to the pillar finisher from having negative effects with regard to the function of the seal or the quality impression of the mounted assembly, provision is made that a covering lip, functionally separate from the position of the functional seal, is fixedly associated with the pillar finisher on the edge side.

0) US2012234621A – WINDOW SYSTEMS FOR VEHICLES

139) Family number: 43910883 (US2012234621A) © PatBase

Title: WINDOW SYSTEMS FOR VEHICLES

Priority: GB20090004921 20090826 GB20090014921 20090826 WO2010GB01616 20100826

Family:

Publication number	Publication date	Application number	Application date
EP2470389 A1	20120704	EP20100752106	20100826
EP2470389 B1	20171004	EP20100752106	20100826
GB200914921 A0	20090930	GB20090014921	20090826
US2012234621 AA	20120920	US20100391776	20100826
US8827027 BB	20140909	US20100391776	20100826
WO11023955 A1	20110303	WO2010GB01616	20100826

Probable Assignee: ASTON MARTIN LAGONDA LTD

Assignee(s):(std)**:** ASTON MARTIN LAGONDA LTD ; JENKINS ADRIAN CHARLES MORGAN ; JENKINS CHARLES MORGAN ; SYVRET ANDREW JOHN ; WALSH WILLIAM MANUEL

Assignee(s): ASTON MARTIN LAGONDA LIMITED

Inventor(s):(std)**:** JENKINS ADRIAN CHARLES MORGAN ; WALSH WILLIAM MANUEL ; SYVRET ANDREW JOHN ; JENKINS CHARLES MORGAN

Agent(s): MILLER JAMES LIONEL WOOLVERTON; DORSEY AND WHITNEY LLP; MILLER JAMES LIONEL WOOLVERTON ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/12 B60J1/17 B60J10/00 B60J10/04 B60R21/00 E05B65/20 E05F15/00 E05F15/16 E05F15/20 (Advanced/Invention)

CPC: E05Y2400/356 E05Y2400/358 E05Y2400/52 E05Y2800/00 E05Y2800/254 E05Y2900/508 E05Y2900/55 E05F15/695 E05F15/70

European class: E05F15/16C3 E05F15/20 P05Y400/356 P05Y400/358 P05Y800/254 P05Y900/508 P05Y900/550

US class: 180/271 180/281 180/289 49/141 49/31 49/349 49/358 49/495.1 49/502 49/506 701/49

Classification Explorer

Cited documents: US8291645 BB, US7861460 BA, US7424353 BB, US7362068 BB, US7246676 BB, US6748308 BB, US6364397 BA, US5975231 A, US5574315 A, US5248897 A, US4571884 A, US2013055642 AA, US2012136532 AA, US2010332086 AA, US2009058340 AA, US2006293821 AA, US2004095084 AA, US2003071446 AA, US2002152013 AA, US2002108310 AA, JP9169212 A2, GB2133461 A1, EP1232886 A1, DE3512117 A1,

DE102007031409 A1

Forward Citations: WO13127744, US9597949, US9567791, US9556661, US9434337, US9410347, US9303442, US9302566, US9248793, US9080348, US9079535, US9033394, US8898958, US8888045, US8708396, US8590210, US2015300046, US2015101249, US2014316609, US2014196372, US2014041302, US2014015275, US2012330514, US2012136532, US2011314737, DE102016003753, CN104271376, CN104246102, CN104246102,

Abstract:
Source: US2012234621A A motor car (10) has windows (28, 49) which can have a first H1 fully closed position and a lower H2 position in which water tightness is still provided but opening of a frameless window assembly/door assembly can be achieved more quickly from the point in time in which the door handle 44, 46) is operated. The Hi position may be selected as the vehicle accelerates above a given speed and the H2 position may be selected when the vehicle door is closed, and the window may also have a short–drop H3 lower re–spool

H4 position or in the case of a rear window a three quarter lowered H5 position.

0) US2011133516A – VEHICLE WITH A SLIDING DOOR

140) Family number: 49014854 (US2011133516A) © PatBase

Title: VEHICLE WITH A SLIDING DOOR

Priority: DE200910057309 20091207 EP20100014132 20101029

Family:

Publication number	Publication date	Application number	Application date
BRPI1005069 A2	20130326	BR2010PI05069	20101207
CN102085792 A	20110608	CN201010585878	20101207
CN102085792 B	20150401	CN201010585878	20101207
DE102009057309 A1	20110609	DE200910057309	20091207
DE502010001278 D1	20121115	DE201050001278T	20101029
EP2332759 A1	20110615	EP20100014132	20101029
EP2332759 B1	20120919	EP20100014132	20101029
MX2010013199 A1	20110805	MX20100013199	20101202
US2011133516 AA	20110609	US20100961001	20101206
US8235454 BB	20120807	US20100961001	20101206

Probable Assignee: DURA AUTOMOTIVE HOLDINGS UK LTD

Assignee(s):(std): DURA AUTOMOTIVE BODY AND GLASS ; DURA AUTOMOTIVE BODY AND GLASS SYSTEMS GMBH ; HEUEL GERHARD ; ROTTMANN RALF ; KREHMKE MICHAEL

Assignee(s): DURA AUTOMOTIVE BODY AND GLASS SYSTEMS GMBH AND CO KG ; DURA AUTOMOTIVE GLASS AND BODY SYSTEMS GMBH ; DURA AUTOMOTIVE HOLDINGS UK LTD

Inventor(s):(std): GERHARD HEUEL ; HEUEL GERHARD ; KREHMKE MICHAEL ; MICHAEL KREHMKE ; RALF ROTTMANN ; ROTTMANN RALF

Agent(s): LORENZ SEIDLER GOSSEL RECHTSANWAELTE PATENTANWAELTE PARTNERSCHAFT MBB; ZINNECKER ARMIN; ALLEMAN HALL MCCOY RUSSELL AND TUTTLE LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8–9): B60J5/06 E05D15/06 E05F7/00 (Advanced/Invention)

CPC: B60J5/06 E05D15/101 E05D15/1081 E05D2015/1086 E05F7/005 E05Y2201/684 E05Y2600/46 E05Y2900/531

European class: B60J5/06 E05D15/10T3 E05F7/00C P05D15/10C2 P05D15/10T4A P05Y201/684 P05Y600/46 P05Y900/531

US class: 296/155 296/202 296/202P 49/404 49/404S

Classification Explorer

Cited documents: US7950719 BB, US6206455 BA, US5398988 A, US2007085374 AA, US2004194385 AA, FR2924150 A1, EP2008846 A2,

DE102008026137 A1

DE102008016650 B3

CN1170804 A, CN101513827 A,

Forward Citations: US9260902, US8893436, US2014117705,

Abstract:
Source: US2011133516A A vehicle comprises a body, a sliding door, which comprises a guide rail and a sliding carriage which is longitudinally movably mounted on the guide rail and which is connected with the body by a multiple joint, and a centering element which is releasably connectable with a counter bearing. To improve such vehicle, a counter bearing and/or a centering element are provided in the roof region and in the floor region of the body.

0) US2011192088A – SCHEME FOR OPERATING AN ELECTRIC WINDOW LIFTER ...

141) Family number: 49178910 (US2011192088A) © PatBase

Title: SCHEME FOR OPERATING AN ELECTRIC WINDOW LIFTER

Priority: DE201010005676 20100126 US20110005912 20110113 US20140273783 20140509

Family:

Publication number	Publication date	Application number	Application date
DE102010005676 B3	20110707	DE201010005676	20100126
US2011192088 AA	20110811	US20110005912	20110113
US2014245664 AA	20140904	US20140273783	20140509
US8756863 BB	20140624	US20110005912	20110113
US9015993 BB	20150428	US20140273783	20140509

Probable Assignee: BROSE FAHRZEUGTEILE

Assignee(s):(std)**:** BROSE FAHRZEUGTEILE ; ZELLMER RENE ; KALB ROLAND

Assignee(s): BROSE FAHRZEUGTEILE GMBH AND CO ; BROSE FAHRZEUGTEILE GMBH AND CO HALLSTADT KG ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCHAFT ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCHAFT HALLSTADT

Inventor(s):(std)**:** KALB ROLAND ; ZELLMER RENE

Agent(s): MENDELSOHN DRUCKER AND DUNLEAVY PC; STEVE

International class(IPC 8–9)**:** B60J1/17 B60J1/18 E05F11/52 E05F15/02 E05F15/08 E05F15/10 E05F15/16 E05F15/20 G05B9/02 (Advanced/Invention); E05F15/00 (Advanced/Non–invention)

CPC: B60J1/18 E05F15/41 E05F15/695 E05F11/525 E05Y2900/55 E05F15/0017 E05F15/0021 E05F15/1684 E05F15/646 B60J1/17 E05F15/42 E05F15/73

European class: E05F11/52B E05F15/00B1 E05F15/16C3 P05F15/00B4 P05F15/00B6 P05Y900/550

US class: 49/103 49/26 49/28 49/358 49/358P 49/506 49/506S

Classification Explorer

Cited documents: US8033052 BB, US6773053 BB, US6733065 BB, US6710561 BB, US6701673 BA, US6472836 BA, US6426604 BA, US6166508 A, US5982124 A, US5872436 A, US5459379 A, US4621223 A, US4468596 A, US4069616 A, US3965618 A, US3816963 A, US3815005 A, US3733532 A, US3670454 A, US3581174 A, US3513374 A, US2012090240 AA, US2011265381 AA, US2011225894 AA, US2011138693 AA, US2010319268 AA, US2009295556 AA, US2009249697 AA, US2003116994 AA, US2002014871 AA,

DE102004048017 A1

DE10002466 A1,

Forward Citations: US8661735, US2012090240,

Abstract:
Source: US2011192088A The invention relates to an operating method for an electric window lifter for moving a rear pane (3) in a motor vehicle, in which the rear pane (3) is moved in a lowering direction (−z) along an approximately s−shaped path of movement. In the case of trapping, the movement of the rear pane (3) in the lowering direction (−z) is stopped and the rear pane (3) is moved in the lifting direction (+z).

0) DE102010023984A1 – PANE ARRANGEMENT FOR PASSENGER CAR I.E. CABRIOL...

142) Family number: 50127768 (DE102010023984A1) © PatBase

Title: PANE ARRANGEMENT FOR PASSENGER CAR I.E. CABRIOLET CAR, HAS SEALING SECTION RISING MAXIMUM TO OUTER SIDES OF PANES IN OUTWARD DIRECTION, WHERE SEALING SECTION IS MOLDED TO ONE OF PANES

Priority: DE201010023984 20100616

Family:

Publication number	Publication date	Application number	Application date
DE102010023984 A1	20111222	DE201010023984	20100616

Probable Assignee: DAIMLER AG

Assignee(s):(std)**:** DAIMLER AG

Inventor(s):(std)**:** KRAEMER BERND

International class (IPC 8–9)**:** B60J10/02 (Advanced/Invention)

CPC: B60J10/777

European class: B60J10/04E4

Classification Explorer

Forward Citations: WO17009320, EP3118040,

Abstract:
The arrangement (12) has a pane i.e. front side plate, and another pane i.e. rear side plate (10) formed between abutting surfaces (16) of the rear side plate, where a sealing section (18) lies close to the abutting surfaces. The panes are formed in a region of abutting surfaces planarly to each other at outer sides of the abutting surfaces, respectively. The sealing section raises maximum to the outer sides of the panes in outward direction. The sealing section is molded to one of the panes, where the sealing section is made of an elastic material.

0) DE102010056385A1 – DOOR FOR VEHICLE, PARTICULARLY MOTOR VEHICLE, H...

143) Family number: 50496508 (DE102010056385A1) © PatBase

Title: DOOR FOR VEHICLE, PARTICULARLY MOTOR VEHICLE, HAS DOOR FRAME, SUPPORTING STRUCTURE, COLUMN PANEL AND GUILLOTINE WINDOW, WHERE DOOR FRAME IS FIRMLY CONNECTED WITH SUPPORT STRUCTURE IN PERIPHERAL AREAS OF GUILLOTINE WINDOW

Priority: DE201010056385 20101228

Family:

Publication number	Publication date	Application number	Application date
DE102010056385 A1	20120119	DE201010056385	20101228

Probable Assignee: GM GLOBAL TECH OPERATIONS INC

Assignee(s):(std)**:** GM GLOBAL TECH OPERATIONS INC

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES D STAATES DELAWARE

Inventor(s):(std)**:** LANGE MARCUS

International class (IPC 8–9)**:** B60J5/04 B60R13/02 (Advanced/Invention)

CPC: B60R13/04 B60J5/0402 B60J10/76

European class: B60J10/04D B60J5/04B2 B60R13/04

Classification Explorer

Cited documents: DE20201528 U1,

DE202004010601 U1

DE102009026070 A1

DE102004032682 A1

Forward Citations: EP2684720, DE202017103747, DE102015014645,

Abstract:
The door (1) has a door frame, a supporting structure, a column panel (5) and a guillotine window (7), where the door frame is firmly connected with the support structure in peripheral areas of the guillotine window. The supporting structure has a hollow profile. The guillotine window is guided in to the column panel.

144) Family number: 50507904 (US2012019023A) © PatBase

Title: RETRACTING SEAL SURFACE ENABLING INDEPENDENT ACTION OF OPPOSING HINGED VEHICLE DOORS

Priority: DE201110107850 20110718 US20100843339 20100726

Family:

Publication number	Publication date	Application number	Application date
BRPI1102669 A2	20121211	BR2011PI02669	20110609
CN102371878 A	20120314	CN201110210067	20110726
CN102371878 B	20140723	CN201110210067	20110726
DE102011107850 A1	20120126	DE201110107850	20110718
US2012019023 AA	20120126	US20100843339	20100726
US8196992 BB	20120612	US20100843339	20100726

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std): GM GLOBAL TECH OPERATIONS INC ; KONCHAN JEFFREY L ; KRAJENKE GARY W ; O KANE JAMES C

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC NDGESD STAATES DELAWARE ; WILMINGTON TRUST CO

Inventor(s):(std): KONCHAN JEFFREY L ; KRAJENKE GARY W ; O KANE JAMES C ; O KANE J C ; KRAJENKE G W ; KONCHAN J L ; J L KONCHAN ; J C O KANE ; G W KRAJENKE

Inventor(s): O'KANE JAMES C ; GARY W KRAJENKE ; JAMES C O KANE ; JEFFREY L KONCHAN

Agent(s): QUINN LAW GROUP PLLC

International class (IPC 8–9): B60J10/08 B60J5/04 E06B7/21 F16J15/12 (Advanced/Invention)

CPC: B60J10/40 B60J10/86 F16J15/028 B60J5/0479

European class: B60J10/00J B60J10/08C B60J5/04H5B F16J15/02B4

US class: 296/146.9 296/146.900P 49/475.1

Classification Explorer

Cited documents: US2802247 A, US2009227196 AA, US2009039678 AA, US2008309122 AA, GB2302898 A1, EP1221529 A1,

Forward Citations: US8607505, US8555552, US8484900, US8328269, US8328268, US2013047519, US2012193938, US2012091749, US2012073321, US2012023830, FR3038263, DE102011087632, CN106050048,

Abstract:
Source: US2012019023A A seal module for sealing between a first door and a second door of opposing–hinged doors includes a base defining a channel and a retractable seal moveably disposed within the channel. The retractable seal moves between an extended position for sealing between the first door and the second door, and a retracted position spaced from one of the first door and the second door to allow independent pivotable movement of either the first door or the second door.

0) US2012023830A – SEALING ASSEMBLY FOR A VEHICLE

145) Family number: 50543320 (US2012023830A) © PatBase

Title: SEALING ASSEMBLY FOR A VEHICLE

Priority: DE201110108036 20110719 US20100844068 20100727

Family:

Publication number	Publication date	Application number	Application date
CN102343792 A	20120208	CN201110211706	20110727
CN102343792 B	20141231	CN201110211706	20110727
DE102011108036 A1	20120202	DE201110108036	20110719
US2012023830 AA	20120202	US20100844068	20100727
US8607505 BB	20131217	US20100844068	20100727

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std)**:** BAZZI IMAD F ; GM GLOBAL TECH OPERATIONS INC ; NETHERLAND III JAMES S ; MCKENNEY RONALD P ; LIPOWSKI RAYMOND R

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; WILMINGTON TRUST CO

Inventor(s):(std)**:** BAZZI IMAD F ; LIPOWSKI RAYMOND R ; MCKENNEY RONALD P ; NETHERLAND III JAMES S

Agent(s): QUINN LAW GROUP PLLC

International class(IPC 8–9)**:** B60J10/08 B60R13/06 E06B7/16 (Advanced/Invention)

CPC: B60J10/21 B60J10/84 B60J10/86 B60J5/0479

European class: B60J10/00D1 B60J10/08B B60J10/08C B60J5/04H5B

US class: 296/146.9 49/366 49/367 49/368 49/476.1 49/484.1 49/484.100P 49/498.1

Classification Explorer

Cited documents: US8342592 BB, US8328269 BB, US8328268 BB, US8196992 BB, US8123278 BA, US7819465 BB, US7032953 BB, US7000976 BB, US6386619 BA, US5791723 A, US4711098 A, US4428153 A, US2997336 A, US2767040 A, US2009273264 AA, US2006236802 AA, US2005194820 AA, US2005046319 AA, US2002178656 AA, US2001017006 AA,

DE102008005490 A1

Forward Citations: US8950797, US2016250912, US2013187404, DE102011087632,

Abstract:
Source: US2012023830A A sealing assembly is provided for a vehicle having independently opening and closing closure panels, such as first and second doors, which are hinged to a vehicle body with opposing hinges. The sealing assembly has a first seal that is mounted to the vehicle body to substantially surround a continuous door opening, and has a first membrane portion that extends over a first portion of the cutline. A second seal is mounted to a surface of the first door that faces the first membrane portion when the first door is closed. A third seal is mounted to a surface of the second door that faces the first membrane portion when the second door is closed. The first membrane portion is configured to be movable toward the closed first and second doors into contact with the second and third seals to seal the first portion of the cutline.

0) DE102010033585A1 – PASSENGER CAR, PARTICULARLY SPORTS CAR, COMPRIS...

146) Family number: 50620713 (DE102010033585A1) © PatBase

Title: PASSENGER CAR, PARTICULARLY SPORTS CAR, COMPRISES BODY WITH SIDE LEAF DOOR, BY WHICH CORRESPONDING DOOR OPENING IS CLOSED IN CORRESPONDING SIDE WALL OF BODY, WHERE SIDE DOOR IS PROVIDED LATERALLY ADJACENT TO LEAF DOOR

Priority: DE201010033585 20100806

Family:

Publication number	Publication date	Application number	Application date
DE102010033585 A1	20120209	DE201010033585	20100806

Probable Assignee: DAIMLER AG

Assignee(s):(std)**:** DAIMLER AG

Inventor(s):(std)**:** BISINGER JOCHEN DR ING

Inventor(s): BISINGER JOCHEN

International class (IPC 8–9)**:** B60J5/06 (Advanced/Invention)

CPC: B60J5/0473 B60J5/0479

European class: B60J5/04H2 B60J5/04H5B

Classification Explorer

Abstract:
The passenger car comprises a body with a side leaf door (12), by which a corresponding door opening is closed in an associated side wall (10) of the body. A side door (16) is provided laterally adjacent to the folding door, and is arranged behind the corresponding leaf door.

0) US8123278B – RETRACTABLE DOOR MOUNTED APPLIQUE FOR OPPOSING–...

147) Family number: 50675166 (US8123278B) © PatBase

Title: RETRACTABLE DOOR MOUNTED APPLIQUE FOR OPPOSING–HINGED DOORS

Priority: US20100913910 20101028

Family:

Publication number	Publication date	Application number	Application date
BRPI1106821 A2	20130424	BR2011PI06821	20111027
CN102452304 A	20120516	CN201110333584	20111028
CN102452304 B	20150211	CN201110333584	20111028
DE102011116688 A1	20120503	DE201110116688	20111021
US8123278 BA	20120228	US20100913910	20101028

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std): GM GLOBAL TECH OPERATIONS INC ; MCKENNEY RONALD P ; NETHERLAND III JAMES S ; SMITH GREGORY B

Assignee(s): WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE

Inventor(s):(std): MCKENNEY RONALD P ; NETHERLAND III JAMES S ; NETHERLAND JAMES S III ; SMITH GREGORY B

Inventor(s): GREGORY B SMITH ; JAMES S NETHERLAND III ; RONALD P MCKENNEY

Agent(s): QUINN LAW GROUP PLLC

International class (IPC 8–9): B60J10/08 B60J5/04 (Advanced/Invention)

CPC: B60J5/0479

European class: B60J5/04H5B

US class: 296/146.9 49/320 49/321 49/368

Classification Explorer

Cited documents: US6332641 BA, US3653155 A, US2006043773 AA, CN2550211 Y,

Forward Citations: US8607505, US8555552, US8485586, US8484900, US8328268, US2013047519, US2013042533, US2012091749, US2012073321, US2012023830, DE102011087632, CN105539098,

Abstract:
Source: US8123278B A vehicle includes a pair of opposing–hinged doors having a first door and a second door. The first and second doors each include a tumblehome portion that extends inboard of a first rotation axis and a second rotation axis respectively. The first door and second doors are disposed adjacent each other when in a closed position, and define a gap between the tumblehome portions of the first and second doors. An applique is moveably attached to one of the doors, and is moveable between a sealing position and a withdrawn position. When in the sealing position, the applique extends across the gap. When in the withdrawn position, the applique is spaced from one of the doors, thereby allowing the doors to simultaneously rotate open in opposite directions without the tumblehome portions of the doors contacting or otherwise interfering with each other.

0) US2012049580A – LATCHING SYSTEM

148) Family number: 50734487 (US2012049580A) © PatBase

Title: LATCHING SYSTEM

Priority: US20100873609 20100901

Family:

Publication number	Publication date	Application number	Application date
CN102383676 A	20120321	CN201110256521	20110901
CN102383676 B	20140820	CN201110256521	20110901
DE102011110901 A1	20120301	DE201110110901	20110818
US2012049580 AA	20120301	US20100873609	20100901
US8267464 BB	20120918	US20100873609	20100901

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std)**:** CHINTA BALAKRISHNA ; CONRAD LOUIS J ; GM GLOBAL TECH OPERATIONS INC ; KONCHAN JEFFREY L ; MCKENNEY RONALD P

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC NDGESD STAATES DELAWARE ; WILMINGTON TRUST CO

Inventor(s):(std)**:** CHINTA BALAKRISHNA ; CONRAD LOUIS J ; KONCHAN JEFFREY L ; MCKENNEY RONALD P ; BALAKRISHNA CHINTA

Agent(s): QUINN LAW GROUP PLLC

International class(IPC 8–9)**:** B60J5/04 E05B15/00 E05B47/00 E05B49/00 E05B65/12 E05B65/42 E05B77/12 E05B81/00 E05C1/08 E05C19/00 (Advanced/Invention)

CPC: E05B81/04 E05B81/18 E05B81/64 E05B77/12 B60J5/0479 Y10T292/1028 Y10T292/42

European class: B60J5/04H5B E05B77/12 E05B81/00

US class: 292/150 292/300 292/300S 292/DIG.21 292/DIG.23 296/146.6 296/202 296/202P

Classification Explorer

Cited documents: US7320495 BB, US7287785 BB, US6601910 BA, US2011221229 AA, CN1295641 A,

Forward Citations: USD795805, USD774645, US9759369, US9580952, US9488200, US9487066, US9168884, US9164549, US8646818, US8485586, US8484900, US2015028734, US2015021928, US2013272773, US2013134721, US2013042533, US2012268874, DE102014012465,

Abstract:
Source: US2012049580A A door latching system for a vehicle and method of latching are provided. The system includes a carrier and a receiver each connected to one of a door and a door interface. The latching system, when non−actuated, does not substantially protrude from the latching faces of the door and door interface into an opening therebetween. The latching system is adaptable to a vehicle defining a continuous access opening closed by independently openable and closeable doors. The latching member is actuated to move from a retracted position to a protracted position in response to a triggering event, which may be defined by a sensor. In the protracted position, the latching member engages the receiver and the carrier to operatively latch the door and door interface portion. A latching feature defined by the latching member may be selectively engageable with a retaining member when the latching member is in the protracted position.

0) US2012049581A – INDEXING DOOR LATCH STRIKER ENABLING COMPLEX DO...

149) Family number: 50734500 (US2012049581A) © PatBase

Title: INDEXING DOOR LATCH STRIKER ENABLING COMPLEX DOOR ARTICULATION

Priority: US20100873626 20100901

Family:

Publication number	Publication date	Application number	Application date
BRPI1103802 A2	20150818	BR2011PI03802	20110830
CN102383707 A	20120321	CN201110256522	20110901
CN102383707 B	20141210	CN201110256522	20110901
DE102011110809 A1	20120301	DE201110110809	20110817
US2012049581 AA	20120301	US20100873626	20100901
US8297689 BB	20121030	US20100873626	20100901

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std): CONRAD LOUIS J ; GM GLOBAL TECH OPERATIONS INC ; KONCHAN JEFFREY L

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES D STAATES DELAWARE ; WILMINGTON TRUST CO

Inventor(s):(std): CONRAD LOUIS J ; KONCHAN JEFFREY L

Inventor(s): LOUIS J CONRAD ; JEFFREY L KONCHAN

Agent(s): QUINN LAW GROUP PLLC

International class (IPC 8–9): B60J5/04 B60J5/06 E05B15/02 E05B65/06 E06B7/16 (Advanced/Invention)

CPC: Y10T292/696 B60J5/0479

European class: B60J5/04H5B

US class: 292/341.15 292/341.150S 296/146.9 296/146.900S 296/202 296/202P

Classification Explorer

Cited documents: US7488029 BB, US6386621 BA, US2004189053 AA, US2003204998 AA, CN1982107 A,

Forward Citations: US2010270813, DE102014219758,

Abstract:
Source: US2012049581A A door of a vehicle is moveable between a closed position, an intermediate position and an open position. When moving between the closed position and the intermediate position, a first vertical edge of the door moves parallel with a body of the vehicle and a second rearward vertical edge of the door moves laterally away from the body of the vehicle. A striker assembly for the door is attached to the body and includes a striker that is moveable between a first position and a second position. A latch mechanism selectively engages the striker when the door is disposed in or moving between the closed position and the intermediate position, with the striker moving with the first edge of the door between the closed position and the intermediate position to prevent lateral movement of the door.

0) US2012049577A – INDEPENDENT OPPOSING–HINGED ACCESS DOOR

150) Family number: 50734541 (US2012049577A) © PatBase

Title: INDEPENDENT OPPOSING–HINGED ACCESS DOOR

Priority: US20100870886 20100830

Family:

Publication number	Publication date	Application number	Application date
CN102381162 A	20120321	CN201110252352	20110830
DE102011110746 A1	20120301	DE201110110746	20110816
US2012049577 AA	20120301	US20100870886	20100830

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std)**:** GM GLOBAL TECH OPERATIONS INC ; SAUCEDO FRANK ; TIMONEN JUSSI A ; SMART NIKI J ; THOMAS BOB

Assignee(s): WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES D STAATES DELAWARE

Inventor(s):(std)**:** BOB THOMAS ; FRANK SAUCEDO ; SAUCEDO FRANK ; SMART NIKI J ; THOMAS BOB ; TIMONEN JUSSI A

International class (IPC 8–9): B60J5/04 E05D5/02 E05F11/54 E05F15/00 (Advanced/Invention)

CPC: E05F15/611 E05Y2900/50 B60J5/0479 E05D15/58 E05F1/1091 E05Y2900/531

European class: B60J5/04H5B E05D15/58 P05F1/10F P05F15/04B P05F15/12 P05Y900/531

US class: 296/146.11 296/146.110S 296/202 296/202P 49/358 49/358S

Classification Explorer

Cited documents: US7819465 BB, US7488029 BB, US6974177 BB, US6386621 BA, US6305737 BA, US4372603 A, US4263853 A, US2997336 A, US2012049579 AA, US2011061304 AA, US2009295187 AA, US2009051194 AA, US1869274 A, JP6024245 A2, JP3066883 A2,

Forward Citations: US2012049579,

Abstract:
Source: US2012049577A A vehicle includes a pair of opposing–hinged doors having a first door and a second door. The first door includes a first edge and a second edge, and is moveable between a closed position, an intermediate position and an open position. The vehicle includes a slideable hinge assembly that moves laterally relative to a longitudinal axis of a body of the vehicle to move the second edge of the first door laterally away from the body and move the first edge parallel with the longitudinal axis and away from the second door when the first door moves from the closed position into the intermediate position. Once in the intermediate position, the first door is free to swing into the open position independently of the second door.

0) US2012049579A – ARTICULATING DOOR HINGE

151) Family number: 50734491 (US2012049579A) © PatBase

Title: ARTICULATING DOOR HINGE

Priority: US20100873578 20100901

Family:

Publication number	Publication date	Application number	Application date
BRPI1103805 A2	20130115	BR2011PI03805	20110830
CN102383683 A	20120321	CN201110256347	20110901
DE102011110904 A1	20120301	DE201110110904	20110818
US2012049579 AA	20120301	US20100873578	20100901

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std): GM GLOBAL TECH OPERATIONS INC ; KONCHAN JEFFREY L ; KRAJENKE GARY W ; SMITH GREGORY B

Assignee(s): WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES D STAATES DELAWARE

Inventor(s):(std): KONCHAN JEFFREY L ; KRAJENKE GARY W ; SMITH GREGORY B

Inventor(s): GARY W KRAJENKE ; GREGORY B SMITH ; JEFFREY L KONCHAN

International class (IPC 8–9): B60J5/00 B60J5/04 E05D3/06 E05D5/02 E05D7/00 E05F1/12 E05F15/00 (Advanced/Invention)

CPC: E05Y2900/531 E05F15/611 B60J5/0479 E05D3/127 E05F1/1215 E05Y2201/412 Y10T16/554

European class: B60J5/04H5B E05D3/12V2 E05F1/12B2 P05F15/12 P05Y201/412

US class: 16/382 16/382S 296/202 296/202P

Classification Explorer

Cited documents: US7918492 BB, US7819465 BB, US7798557 BB, US7488029 BB, US7150492 BB, US7096538 BB, US6974177 BB, US6966600 BB, US6842945 BB, US6681448 BB, US6595580 BB, US6386621 BA, US6382705 BA, US6305737 BA, US6030024 A, US5244247 A, US4719665 A, US4372603 A, US2997336 A, US2012049577 AA, US2006125284 AA, US2003107237 AA, US1253641 A, FR2634426 A1, CN201037345 Y,

Forward Citations: US2012049577, EP2985161, CN106121415,

Abstract:
Source: US2012049579A A hinge assembly for a first door of a pair of opposing–hinged doors includes a curved extension, a first pivot connection interconnecting the curved extension and a body of the vehicle, and a second pivot connection interconnecting the curved extension and the first door. When opening the first door, a first edge of the first door pivots about the first pivot connection away from the body and draws a second edge of the door away from an adjacent second door. The first door pivots about the second pivot connection to open the first door independently of the adjacent second door.

0) US2012153678A – MULTI LINK RETRACTING SEAL SURFACE MODULE

152) Family number: 51328298 (US2012153678A) © PatBase

Title: MULTI LINK RETRACTING SEAL SURFACE MODULE

Priority: US20100968343 20101215

Family:

Publication number	Publication date	Application number	Application date
BRPI1105511 A2	20130521	BR2011PI05511	20111213
CN102555745 A	20120711	CN201110421323	20111215
CN102555745 B	20140917	CN201110421323	20111215
DE102011120777 A1	20120621	DE201110120777	20111209
US2012153678 AA	20120621	US20100968343	20101215
US8342592 BB	20130101	US20100968343	20101215

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std)**:** BAUER STEVEN ; GM GLOBAL TECH OPERATIONS INC ; MAGNA INT INC ; KONCHAN JEFFREY L

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES D STAATES DELAWARE ; WILMINGTON TRUST CO ; MAGNA INTERNATIONAL INC

Inventor(s):(std)**:** BAUER STEVEN ; KONCHAN JEFFREY L ; STEVEN BAUER

Inventor(s): JEFFREY L KONCHAN

Agent(s): QUINN LAW GROUP PLLC

International class (IPC 8–9)**:** B60J10/08 B60J5/00 B60J5/04 B60J5/06 E05D11/10 E05D15/30 F16J15/10 (Advanced/Invention)

CPC: Y10T16/54028 Y10T16/5445 B60J5/0479 B60J10/24 B60J10/87

European class: B60J10/00D5 B60J10/08C2 B60J5/04H5B

US class: 16/334 16/360 296/146.1 296/146.100S 296/146.11 296/146.2 296/146.9 296/146.900S 296/202 296/202P

Classification Explorer

Cited documents: US7488029 BB, US7144064 BB, US6802154 BA, US6694676 BB, US5561887 A, US4854010 A, US3538641 A, US3085297 A, US2265434 A, EP1215064 A1, EP0317037 A2, CN2654407 Y, CN1353652 A, CN101138952 A,

Forward Citations: US9140038, US8607505, US8555552, US8485586, US8484900, US8454077, US8328269, US8328268, US2013134722, US2013047519, US2013042533, US2012272579, US2012193938, US2012091749, US2012023830, FR3038263, DE102011087632,

Abstract:
Source: US2012153678A A seal module for sealing between a first door and a second door of opposing–hinged doors is moveable between an sealing position for sealing between the first door and the second door, and a withdrawn position longitudinally spaced from one of the first door and the second door to allow for independent pivotable movement of either the first door or the second door. A linkage system including a first swing arm and a second swing arm rotatably interconnects the seal module to the second door, and moves the seal module between the sealing position and the withdrawn position along an arcuate path that is disposed along a plane substantially perpendicular to an outer surface of the opposing–hinged doors.

0) DE102010055442A1 – DOOR ARRANGEMENT FOR USE AT BODY OF PASSENGER C...

153) Family number: 51335316 (DE102010055442A1) © PatBase

Title: DOOR ARRANGEMENT FOR USE AT BODY OF PASSENGER CAR, HAS DOOR LEAF PIVOTALLY SUPPORTED AT END SECTION OF CONNECTION STRUCTURE WITH RESPECT TO VEHICLE LONGITUDINAL AXIS, WHERE STRUCTURE IS PIVOTALLY SUPPORTED AT BODY TOGETHER WITH DOOR LEAF

Priority: DE201010055442 20101221

Family:

Publication number	Publication date	Application number	Application date
DE102010055442 A1	20120621	DE201010055442	20101221

Probable Assignee: GM GLOBAL TECH OPERATIONS INC

Assignee(s):(std)**:** GM GLOBAL TECH OPERATIONS INC

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS LLC

Inventor(s):(std)**:** HOFFMANN CARSTEN ; STENGER RALPH

International class (IPC 8–9)**:** B60J5/04 (Advanced/Invention)

CPC: B60J5/0477 B60J5/0479

European class: B60J5/04H5 B60J5/04H5B

Classification Explorer

Cited documents: DE4133883 A1, DE10346707 B3, DE10243898 A1,

DE102007014209 A1

Abstract:
The arrangement (14) has a door leaf (16) attachable at a body of a motor vehicle by a connection structure (18). The door leaf is pivotally supported at an end section (24) of the connection structure with respect to a vehicle longitudinal axis (X), where the structure is pivotally supported at the body together with the door leaf. The structure has upper and lower carrier rails (20, 22) pivotally arranged in a region of a roof frame and in a region of a side skirt at the body, respectively. The door leaf is sealable against the body by a circumferential seal.

0) US2012193938A – ARTICULATING TRIM CLOSEOUT PANEL FOR OPPOSING H...

154) Family number: 51606313 (US2012193938A) © PatBase

Title: ARTICULATING TRIM CLOSEOUT PANEL FOR OPPOSING HINGED DOORS

Priority: US20110015644 20110128

Family:

Publication number	Publication date	Application number	Application date
CN102616118 A	20120801	CN201210020235	20120129
CN102616118 B	20141217	CN201210020235	20120129
DE102012001366 A1	20120802	DE201210001366	20120125
US2012193938 AA	20120802	US20110015644	20110128
US8328269 BB	20121211	US20110015644	20110128

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std)**:** GM GLOBAL TECH OPERATIONS INC ; KRAJENKE GARY W

Assignee(s): WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE

Inventor(s):(std)**:** KRAJENKE GARY W

Agent(s): QUINN LAW GROUP PLLC

International class (IPC 8–9): B60J5/04 B60J5/06 B60R13/02 (Advanced/Invention)

CPC: B60R13/0243 B60J5/0479

European class: B60R13/02D2

US class: 296/146.1 296/146.7 296/146.700P 296/146.9

Classification Explorer

Cited documents: US8196992 BB, US7950704 BB, US7703837 BB, US7073294 BB, US7052072 BB, US6913308 BB, US6332641 BA, US5791723 A, US3653155 A, US2860911 A, US2012153678 AA, US2012019023 AA, US2010156140 AA, US2009072582 AA, US2008122250 AA, US2006043773 AA, US2004056509 AA, US2001017006 AA, DE10137699 A1, CN2550211 Y,

Forward Citations: US9022455, US8607505, US8555552, US2015097391, US2013047519, US2012023830,

Abstract:
Source: US2012193938A A vehicle includes a pair of opposing hinged doors. The pair of opposing hinged doors includes a first door and a second door. An articulating trim panel is moveably attached to the second door, and is moveable between a deployed position and a refracted position. When in the deployed position, the articulating trim panel conceals an interior gap between a first interior trim panel of the first door and a second interior trim panel of the second door. When in the refracted position, the articulating trim panel is withdrawn from the interior gap, thereby allowing independent pivotable movement of the first door and the second door relative to each other.

0) DE102011010716A1 – MOTOR CAR I.E. B–PILLAR–LESS MOTOR CAR, HAS CLO...

155) Family number: 51704573 (DE102011010716A1) © PatBase

Title: MOTOR CAR I.E. B–PILLAR–LESS MOTOR CAR, HAS CLOSING SYSTEM COMPRISING ELONGATED PUSHER ELEMENT THAT IS MOVABLE TRANSVERSE TO LONGITUDINAL EXTENSION OF PUSHER ELEMENT FROM LOCKING POSITION INTO UNLOCKING POSITION

Priority: DE201110010716 20110209

Family:

Publication number	Publication date	Application number	Application date
DE102011010716 A1	20120809	DE201110010716	20110209

Probable Assignee: GM GLOBAL TECH OPERATIONS INC

Assignee(s):(std)**:** GM GLOBAL TECH OPERATIONS INC

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GESETZEN DES STAATES DELAWARE

Inventor(s):(std)**:** BACCELLI GIAN LUCA ; DAMM KARSTEN

International class (IPC 8–9)**:** B60J5/04 (Advanced/Invention)

CPC: B60J5/0479

European class: B60J5/04H5B

Classification Explorer

Cited documents: DE9212048 U, DE4205892 C1, DE1802066 U,

Forward Citations: EP2902227,

Abstract:
The car (10) has a locking system for locking front and back doors (12, 14) against each other in a closed state. The closing system comprises an elongated pusher element (18) that is movable transverse to the longitudinal extension of the pusher element from a locking position (A) into an unlocking position. The pusher element is extendable until or into a lower end region (22) and/or an upper end region (24) of the front door or the back door. The pusher element overlaps the doors in a displacement direction (26) in the locking position.

0) FR2972966B – JOINT DE LISSAGE MONTE SANS FIXATION ENTRE LES ...

156) Family number: 52066322 (FR2972966B) © PatBase

Title: JOINT DE LISSAGE MONTE SANS FIXATION ENTRE LES JOINTS DE VITRE D'ENTREE DE PORTE D'UN VEHICULE.

Priority: FR20110052500 20110325

Family:

Publication number	Publication date	Application number	Application date
FR2972966 A1	20120928	FR20110052500	20110325
FR2972966 B1	20160812	FR20110052500	20110325

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Inventor(s):(std)**:** BIHOUES DIDIER

Inventor(s): DIDIER BIHOUES

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

International class (IPC 8–9): B60J10/04 (Advanced/Invention)

CPC: B60J10/79 B60J10/24 B60J10/32 B60J10/40

European class: B60J10/00D5 B60J10/00G1 B60J10/00J B60J10/06

Classification Explorer

Cited documents: WO10012095 A1, US5860692 A,

Abstract:
The element (7) has a flexible tube (15) longitudinally attached to a rigid sole (17) along its transverse central section. The rigid sole comprises a contact surface (33) that is arranged in contact with corresponding surfaces (251, 252) of glass pane seals (111, 112) to press the rigid sole on a mounting surface (9). The contact surface is located perpendicular to the sole and located in front of the sole and on a side of the flexible tube. The sole comprises a physical mark to allow positioning of the element along an axis. Independent claims are also included for the following: (1) a glass pane seal (2) a sealing system (3) a vehicle.

0) US2012272579A – HEADERLESS OPPOSING HINGED DOORS

157) Family number: 52216616 (US2012272579A) © PatBase

Title: HEADERLESS OPPOSING HINGED DOORS

Priority: US20110094878 20110427

Family:

Publication number	Publication date	Application number	Application date
CN102756634 A	20121031	CN201210126575	20120426
CN102756634 B	20140903	CN201210126575	20120426
DE102012206640 A1	20121031	DE201210206640	20120423
US2012272579 AA	20121101	US20110094878	20110427
US8454077 BB	20130604	US20110094878	20110427

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std)**:** CHARNESKY KERRY A ; CHARNESKY SCOTT P ; GM GLOBAL TECH OPERATIONS INC

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES DSTAATES DELAWARE

Inventor(s):(std)**:** CHARNESKY KERRY A ; CHARNESKY SCOTT P

Agent(s): QUINN LAW GROUP PLLC

International class (IPC 8–9): B60J1/17 B60J10/02 B60J10/08 B60J5/04 B60J5/06 (Advanced/Invention)

CPC: B60J10/777 B60J1/17 B60J5/0477

European class: B60J1/17 B60J10/04E4 B60J5/04H5

US class: 296/146.1 296/146.2 296/146.9 49/367 49/368 49/502

Classification Explorer

Cited documents: US4988142 A, US4635420 A, US4407540 A, US3541732 A, US2997336 A, US2012153678 AA, US2012133175 AA, US2012091749 AA, US2010156140 AA, US2009001755 AA, US2003116994 AA, JPS6239317, JP62039317 A2, JP362039317, EP1520742 A1, CN101906901 A,

Forward Citations: US8793938, US2016185190,

Abstract:
Source: US2012272579A A pair of opposing hinged doors includes a first door and a second door having a first window panel and a second window panel respectively. The first window panel moves along a first path that initially guides the first window panel away from the second window panel and then guides the first window panel vertically downward when moving from an extended position into a retracted position. Similarly, the second window panel moves along a second path that initially guides the second window panel away from the first window panel and then guides the second window panel vertically downward when moving from an extended position into a retracted position. The movement of the first window panel and the second window panel along the first path and the second path respectively allows for the first door and the second door to be independently openable relative to each other.

0) DE102011050118A1 – COLLAPSIBLE ROOF FOR CABRIOLET, HAS REAR ROOF F...

158) Family number: 52325318 (DE102011050118A1) © PatBase

Title: COLLAPSIBLE ROOF FOR CABRIOLET, HAS REAR ROOF FRAME WHOSE COLUMN PORTION RUNS PARALLEL TO REAR DISK EDGE OF SIDE PLATE AND CARRIES PORTION OF SEALING STRIP THAT SEALS REAR DISK EDGE OF SIDE PLATE, WHERE ROOF COVER IS HELD AT REAR ROOF FRAME

Priority: DE201110050118 20110505

Family:

Publication number	Publication date	Application number	Application date
DE102011050118 A1	20121108	DE201110050118	20110505

Probable Assignee: PORSCHE AG

Assignee(s):(std)**:** PORSCHE AG

Assignee(s): DR ING H C F PORSCHE AKTIENGESELLSCHAFT ; DR ING HC F PORSCHE AG

Inventor(s):(std)**:** FROESCHLE MATHIAS

International class (IPC 8–9)**:** B60J10/10 B60J10/90 B60J7/12 (Advanced/Invention)

CPC: B60J7/1265 B60J10/90

Classification Explorer

Cited documents: DE2008062395, DE2007042302, DE2007015041, DE2005047846, DE2004029727, DE19636209 C1,

DE102008062395 A1

DE102007042302 A1

DE102007015041 A1

DE102005047846 B3

DE102004029727 A1

Abstract:
The roof (3) has a two−piece sealing strip (9) for sealing an upper upright disk edge (10) of a side plate (11) i.e. lowerable disk, where the roof is moved between a closing position (ST) and an open position. The strip comprises front and rear cover parts (8, 15). The rear cover part comprises a flexible or stiff convertible roof cover (17) that is held at a rear roof frame, where the frame comprises a column portion. The portion runs parallel to a rear disk edge (13) of the side plate and carries a portion of another sealing strip (14) that seals the rear disk edge. The rear cover part is designed as a rigid element.

0) US2013047519A – INFLATABLE DOOR SEAL

159) Family number: 53101064 (US2013047519A) © PatBase

Title: INFLATABLE DOOR SEAL

Priority: US20110216549 20110824

Family:

Publication number	Publication date	Application number	Application date
DE102012214841 A1	20130228	DE201210214841	20120821
US2013047519 AA	20130228	US20110216549	20110824
US8555552 BB	20131015	US20110216549	20110824

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std): GM GLOBAL TECH OPERATIONS INC ; HOOTON JOEL S

Assignee(s): WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES DSTAATES DELAWARE

Inventor(s):(std): HOOTON JOEL S

International class (IPC 8–9): B60J10/08 (Advanced/Invention)

CPC: B60J10/244 B60J10/86

US class: 296/146.9 49/477.1 49/506

Classification Explorer

Cited documents: US8328269 BB, US8328268 BB, US8196992 BB, US8123278 BA, US6922945 BB, US6848737 BB, US6846034 BA, US6694676 BB, US6125591 A, US6098992 A, US5870860 A, US5489104 A, US5469667 A, US5452550 A, US5361542 A, US5339488 A, US5253453 A, US5181341 A, US5090765 A, US5085293 A, US5079873 A, US5046285 A, US5012615 A, US4989369 A, US4924629 A, US4813184 A, US4399317 A, US4375104 A, US4371175 A, US4370831 A, US3580629 A, US3178779 A, US3161229 A, US2860911 A, US2704387 A, US2700196 A, US2530160 A, US2306990 A, US2013025211 AA, US2012153678 AA, US2012133175 AA, US2010132264 AA, US2009255187 AA, US2006249982 AA, US2006010779 AA,

Forward Citations: US8800209, US2016250912, US2016208546, US2016023543, US2015210374, FR3038263,

Abstract:
Source: US2013047519A A vehicle and method of operation having a first door, a second door, an inflatable door seal assembly and an inflator assembly. The first door has a first opening side and a first seal mount extending along the first opening side. The second door has a second opening side adjacent to the first opening side to define a gap and a second seal mount extending along the second opening side. The door seal assembly has a first seal assembly mounted to one of the first or second seal mounts, the first seal assembly inflatable to extend into the gap toward the other of the seal mounts when the first and second door are closed and deflatable to retract from the gap. The inflator assembly pumps a fluid into the seal assembly to inflate the seal assembly and pumps the fluid out to deflate the seal assembly.

0) DE102011087632A1 – ANORDNUNG ZWEIER FLUEGELELEMENTE, INSBESONDERE ...

160) Family number: 53978369 (DE102011087632A1) © PatBase

Title: ANORDNUNG ZWEIER FLUEGELELEMENTE, INSBESONDERE SEITENTUEREN, AN EINEM AUFBAU EINES KRAFTWAGENS ARRANGEMENT OF SIDE DOORS AT CHASSIS OF MOTOR VEHICLE E.G. PASSENGER CAR, HAS SEALING STRIP THAT IS COOPERATED WITH SEALING ELEMENT IN SEALING POSITION, FOR MUTUAL SEALING OF SIDE DOORS IN CLOSING POSITION

Priority: DE201110087632 20111202

Family:

Publication number	Publication date	Application number	Application date
DE102011087632 A1	20130606	DE201110087632	20111202

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Assignee(s): BAYERISCHE MOTOREN WERKE AKTIENGESELLSCHAFT

Inventor(s):(std)**:** PLAUM MICHAEL

International class (IPC 8–9): B60J10/08 B60J5/04 (Advanced/Invention)

CPC: B60J5/0479 B60J10/86

Classification Explorer

Cited documents: US8196992 BB, US8123278 BA, US2012153678 AA, DE60009986 T2,

DE102011108036 A1

DE102008005490 A1

Abstract:
Source: DE102011087632A1 Die Erfindung betrifft eine Anordnung (10) eines ersten Fluegelelements (12) und eines zweiten Fluegelelements (14) an einem Aufbau (16) eines Kraftwagens, bei welcher die Fluegelelemente (12, 14) an dem Aufbau (16) zwischen einer jeweiligen Schliessstellung und wenigstens einer jeweiligen Offenstellung relativ zum Aufbau (16) verschwenkbar gehalten sind und bei welcher mittels der Fluegelelemente (12, 14) in deren Schliessstellungen eine von einem ersten Aufbauteil und von einem von dem ersten Aufbauteil beabstandeten zweiten Aufbauteil des Aufbaus (16) begrenzte und zwischen den Aufbauteilen unterbrechungsfreie oeffnung (18) des Aufbaus (16) verschliessbar ist, wobei zumindest an dem ersten Fluegelelement (12) wenigstens ein erstes Dichtungselement (22) zum gegenseitigen Abdichten der Fluegelelemente (12, 14) in deren Schliessstellungen gehalten ist, wobei wenigstens ein an dem zweiten Fluegelelement (14) relativ zu dem ersten Dichtungselement (22) und relativ zu dem zweiten Fluegelelement (14) zwischen wenigstens einer Freigabestellung und wenigstens einer Dichtstellung bewegbar gehaltenes zweites Dichtungselement (24) vorgesehen ist, welches in seiner Dichtstellung zum gegenseitigen Abdichten der Fluegelelemente (12, 14) in den Schliessstellungen mit dem ersten Dichtungselement (22) zusammenwirkt. The arrangement (10) has a sealing element (22) that is arranged at a front side door (12) for mutual sealing of side doors (12,14) in closing position. A sealing strip (24) is arranged at a rear side door (14), and is movable relative to sealing element and rear side door between the releasing position and sealing position. The sealing strip is cooperated with sealing element in sealing position, for mutual sealing of the side doors in closing position.

0) US2013285409A – SEAL STRUCTURE FOR DOOR OF AUTOMOBILE

161) Family number: 55025254 (US2013285409A) © PatBase

Title: SEAL STRUCTURE FOR DOOR OF AUTOMOBILE

Priority: JP20120103866 20120427 JP20120103872 20120427

Family:

Publication number	Publication date	Application number	Application date
CN103373207 A	20131030	CN201310133117	20130417
CN103373207 B	20161207	CN201310133117	20130417
EP2657055 A2	20131030	EP20130165062	20130424
EP2657055 A3	20150909	EP20130165062	20130424
JP2013230766 A2	20131114	JP20120103866	20120427
JP2013230767 A2	20131114	JP20120103872	20120427
JP5379882 B2	20131225	JP20120103866	20120427
JP5437433 B2	20140312	JP20120103872	20120427
US2013285409 AA	20131031	US20130867323	20130422
US8882186 BB	20141111	US20130867323	20130422

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s):(std)**:** HONDA MOTOR CO LTD ; NISHIKAWA RUBBER CO LTD

Assignee(s): HONDA MOTOR CO ; NISHIKAWA RUBBER CO

Inventor(s):(std)**:** BABA EIICHI ; BABA HIDEKAZU ; KITAYAMA KENICHI ; MATSUMOTO MICHIHIKO

Agent(s): SCHOLZ VOLKER; ROBERT P; LUCAS AND MERCANTI LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8–9): B60J10/00 B60J10/08 B60J10/12 B60J10/80 B60J10/82 B60J10/86 B60J5/00 B60J5/04 B60R13/06 (Advanced/Invention)

CPC: B60J10/24 B60J10/25 B60J10/30 B60J10/40 B60J10/82 B60J10/86 B60J10/081 B60J7/1642

US class: 296/146.9 296/216.02 49/475.1 49/495.1

Classification Explorer

Cited documents: US4729596 A, US2009100761 AA, US2004113372 AA, JPS63176721 A2, JPS6291316 A2, JPS598820 U1, JPS5656424 U1, JP63176721 A2, JP62095932 U1, JP62095932 U, JP62091316 A2, JP61191422 A2, JP59008820 U1, JP59008820 U, JP56056424 U1, JP56056424 U, JP3060488 U1, JP3049140 U1, JP2008055977 A2,

DE102005045298 B4

DE102005045298 A1

CN1796170 A, CN1593971 A, CN102275488 A,

Forward Citations: US2017182871, US2017057334, US2015266364, CN105522902,

Abstract:
Source: US2013285409A A tangent 140 on a contact part 80 on which a hollow seal member 32 of a weather strip 30 mounted on a side door 21 first touches a roof door 23 is a straight line which divides an angle theta2 on an acute angle side between an advancing locus 110 of the side door 21 and an advancing locus 120 of a roof door 23 into a substantially half angle theta1, the two advancing loci intersecting on the contact part 80.

0) FR2991637A – DISPOSITIF DE REGLAGE DE LA POSITION DU MECANIS...

162) Family number: 55367524 (FR2991637A) © PatBase

Title: DISPOSITIF DE REGLAGE DE LA POSITION DU MECANISME DE LEVE–VITRE D'UNE VITRE ARRIERE D'UN VEHICULE AUTOMOBILE ADJUSTING DEVICE FOR ADJUSTING POSITION OF GLASS LIFT MECHANISM OF QUARTER WINDOW GLASS OF E.G. TWO– OR FOUR–SEAT CONVERTIBLE, HAS FIXING UNIT FIXING GLASS PANE TO SUPPORT AND GUIDE DISPLACEMENT OF PANE BETWEEN CLOSING AND OPENING POSITIONS

Priority: FR20120055332 20120607

Family:

Publication number	Publication date	Application number	Application date
FR2991637 A1	20131213	FR20120055332	20120607

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Inventor(s):(std)**:** SANCHEZ SAMUEL ; GUINOIS PASCAL

Inventor(s): PASCAL GUINOIS ; SAMUEL SANCHEZ

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

International class (IPC 8–9): B60J1/16 B60J5/04 B62D65/06 E05F11/38 (Advanced/Invention)

CPC: E05Y2201/684 E05Y2600/12 E05Y2600/50 E05Y2900/50 E05Y2900/508 E05Y2900/55 E05F11/382 B60J5/0416 E05Y2600/626 E05Y2600/322

Classification Explorer

Cited documents: FR2932122 A1, FR1197209 A, EP1205322 A2,

DE102005024490 A1

Abstract:
Source: FR2991637A Dispositif de reglage de la position du mecanisme de leve–vitre d'une vitre arriere (3) d'un vehicule automobile, ce mecanisme comprenant un support rigide (5) destine a etre fixe a l'interieur de l'aile arriere (4) ou d'une porte arriere du vehicule, ce support (5) comportant des moyens permettant de fixer la vitre (3) a ce support (5) et de guider le deplacement de cette vitre (3) entre une position de fermeture et une position d'ouverture, caracterise en ce que: – la vitre (3) est fixee audit support (5) d'une facon definitive, – le support (5) comporte des moyens permettant de regler la position de l'ensemble support (5) et vitre (3) par rapport a ladite aile (4) ou porte arriere suivant les trois axes longitudinal X, transversal Y et vertical Z du vehicule. The device has a glass pane i.e. quarter window glass (3), fixed to a rigid support (5) in a definitive manner, where the support is fixed inside a rear wing (4) or a rear door i.e. side door, of a vehicle. The support comprises a fixing unit to fix the glass pane to the support and guide the displacement of the glass pane between closing and opening positions. The support includes an adjustment unit to adjust a position of a support and glass pane assembly with respect to the rear wing or rear door along three longitudinal, transverse and vertical axes of the vehicle.

0) US2015217721A – SEAT BELT ANCHOR

163) Family number: 52399570 (US2015217721A) © PatBase

Title: SEAT BELT ANCHOR

Priority: EP20130760011 20130905 GB20120015937 20120906 WO2013EP68412 20130905

Family:

Publication number	Publication date	Application number	Application date
DE602013008474 D1	20160721	DE201360008474T	20130905
EP2892767 A1	20150715	EP20130760011	20130905
EP2892767 B1	20160608	EP20130760011	20130905
GB201215937 A0	20121024	GB20120015937	20120906
GB2505677 A1	20140312	GB20120015937	20120906
GB2505677 B2	20150128	GB20120015937	20120906
US2015217721 AA	20150806	US20130425015	20130905
US9254817 BB	20160209	US20130425015	20130905
WO14037470 A1	20140313	WO2013EP68412	20130905

Probable Assignee: JAGUAR LAND ROVER LTD

Assignee(s):(std)**:** JAGUAR CARS ; JAGUAR LAND ROVER ; JAGUAR LAND ROVER LTD

Assignee(s): JAGUAR LAND ROVER LTD COVENTRY ; JAGUAR CARS LIMITED ; JAGUAR CARS LTD

Inventor(s):(std)**:** LAKIC ALEX

Inventor(s): ALEX LAKIC

Agent(s): BONSMANN BONSMANN FRANK PATENTANWAELTE; HOLMES MATTHEW WILLIAM; REISING ETHINGTON PC; HOLMES MATTHEW ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J5/10 B60R22/00 B60R22/18 B60R22/24 B62D25/04 B62D27/02 (Advanced/Invention); B60R22/18 (Advanced/Non–invention)

CPC: B60R22/18 B62D25/04 B60J5/101 B62D27/02 B60R2022/1818 B60R22/24

US class: 1/1 280/801.1 297/468

Classification Explorer

Cited documents: US6971677 BB, US6854767 BB, US6336662 BA, US6302442 BA, US5741987 A, US5106121 A, US5069483 A, US4986570 A, US4645232 A, US4616850 A, US4470619 A, US4397482 A, US4220353 A, FR2634445 A1, EP0241035 A1,

Abstract:
Source: US2015217721A A vehicle has a pillar supporting a roof of the vehicle at its rear corners. The pillar provides an anchor point for a third row seat belt. The pillar has a front wall facing generally towards the front of the vehicle, a side wall and a back wall. A seat belt loop member comprising three legs in the form of a T–shape is fixed to the pillar. The first, loop–leg carries a cantilevered belt loop. The second, pad–leg is substantially aligned with the loop–leg and has a pad for abutment against the front wall. The third, anchor–leg, lies substantially orthogonal with respect to the loop and pad–legs and lies against the the side wall of the pillar and is anchored to said side wall. The arrangement reduces the amount of reinforcement required for the pillar.

0) US2015298529A – VEHICLE ROOF

164) Family number: 56387593 (US2015298529A) © PatBase

Title: VEHICLE ROOF

Priority: DE201210021850 20121107 WO2013EP03245 20130929 WO2013EP03245 20131029

Family:

Publication number	Publication date	Application number	Application date
DE102012021850 A1	20140508	DE201210021850	20121107
EP2917056 A1	20150916	EP20130786165	20131029
US2015298529 AA	20151022	US20130440939	20131029
US9352640 BB	20160531	US20130440939	20131029
WO14072032 A1	20140515	WO2013EP03245	20131029

Probable Assignee: AUDI AG

Assignee(s):(std)**:** AUDI AG

Inventor(s):(std)**:** RITTHALER KURT ; RITTTHALER KURT

Agent(s): HENRY M FEIEREISEN LLC; MADER WILFRIED

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** B60J7/00 B60J7/02 B60J7/043 B60J7/057 B60J7/22 B60R13/08 B62D29/04 (Advanced/Invention)

CPC: B60J7/043 B60J7/057 B62D29/043 B60R13/08 B60J7/0046 B60J7/0435

US class: 1/1 296/216.02

Classification Explorer

Cited documents: US7862109 BB, US6942288 BB, US2014319882 AA, US2008036247 AA, EP0442773 A1, DE19946926 C5, DE19946926 C1, DE10304506 A1,

DE102011119991 B3

DE102008015669 B3

DE102007056797 B3

Forward Citations: WO17092983, US9387750, DE202014102614, DE102015224246, DE102014223120,

Abstract:
Source: US2015298529A The invention relates to a vehicle roof (1) with a roof opening (3) which is closable by a roof element (4), and a side outer panel (7) which, in an erected open position of the roof element (4), covers a lateral gap between the roof element (4) and a side wall frame (5). According to the invention, the side outer panel (7) is mounted pivotably in the longitudinal direction (x) of the vehicle.

0) US2014217772A – VEHICLE DOOR FRAM STRUCTURE

165) Family number: 57141125 (US2014217772A) © PatBase

Title: VEHICLE DOOR FRAM STRUCTURE

Priority: JP20130020157 20130205

Family:

Publication number	Publication date	Application number	Application date
CN103963614 A	20140806	CN201410039874	20140127
CN103963614 B	20170825	CN201410039874	20140127
JP2014151659 A2	20140825	JP20130020157	20130205
JP6151524 B2	20170621	JP20130020157	20130205
US2014217772 AA	20140807	US20140172967	20140205
US8985673 BB	20150324	US20140172967	20140205

Probable Assignee: SHIROKI CORP

Assignee(s):(std)**:** SHIROKI CORP

Assignee(s): SHIROKI KOGYO CO LTD

Inventor(s):(std)**:** JUN MAKITA ; MAKITA JUN ; MAKOTO YAMADA ; YAMADA MAKOTO

Agent(s): MILLEN WHITE ZELANO AND BRANIGAN PC

International class (IPC 8–9): B60J5/04 (Advanced/Invention)

CPC: B60J5/0402 B60J5/0401

US class: 296/146.5

Classification Explorer

Cited documents: US8317253 BB, US7891137 BB, US5735081 A, US5046778 A, US2014284961 AA, US2014217772 AA, US2014132028 AA, US2014062122 AA, US2014021739 AA, US2009165392 AA, US2009115220 AA, US2006181107 AA, US2004123526 AA, JP62036816 U1, JP62036816 U, JP2012158244 A2, JP2012006536 A2, JP2008254460 A2, JP2008230449 A2, JP2008007076 A2, JP2007137200 A2, JP2004338612 A2, CN103228473 A, CN102582530 A,

Forward Citations: WO15182495, USD781194, US9656538, US8985673, US2017144515, US2016167491, US2016031298, CN105711387,

Abstract:
Source: US2014217772A A door frame structure of a vehicle door includes an upright pillar sash and an upper sash that are joined together at a corner portion. An opening is formed in a tubular enclosed frame body portion of one of the upright pillar sash and the upper sash, at the corner portion, into which a tubular enclosed frame body portion of the other of the upright pillar sash and the upper sash is inserted. A longitudinal−end surface of the other of the upright pillar sash and the upper sash is brought against an inner surface of the frame body portion of the one of the upright pillar sash and the upper sash. An insertion part of the other of the upright pillar sash and the upper sash is fixed and welded to the one of the upright pillar sash and the upper sash.

0) JP2015020471A – BACK DOOR STRUCTURE FOR VEHICLE

166) Family number: 58343684 (JP2015020471A) © PatBase

Title: BACK DOOR STRUCTURE FOR VEHICLE

Priority: JP20130147946 20130716

Family:

Publication number	Publication date	Application number	Application date
CN104290575 A	20150121	CN201410324591	20140708
CN104290575 B	20160817	CN201410324591	20140708
DE102014213544 A1	20150122	DE201410213544	20140711
DE102014213544 B4	20170706	DE201410213544	20140711
IN00737KO2014 A	20151023	IN2014KO00737	20140707
JP2015020471 A2	20150202	JP20130147946	20130716
JP6149564 B2	20170621	JP20130147946	20130716

Probable Assignee: SUZUKI MOTOR CORP

Assignee(s):(std)**:** SUZUKI MOTOR CO ; SUZUKI MOTOR CORP

Assignee(s): MEDAREX INC ; SUZUKI KK

Inventor(s):(std)**:** UMEDA YOSHIYUKI ; YOSHIYUKI UMEDA

International class(IPC 8–9)**:** B60J5/00 B60J5/10 B62D25/10 E06B3/70 (Advanced/Invention)

CPC: B60J5/107

Classification Explorer

Cited documents: US4880267 A, JP55055410 U1, JP55055410 U, JP2012030655 A2, JP2012030655, JP2011005912 A2, JP2010070130 A2, JP2007216870 A2, JP2005153554 A2, CN201538362 U, CN201187208 Y, CN1435344 A, CN101516660 A,

Forward Citations: WO16198765, FR3037286,

Abstract:
Source: JP2015020471A PROBLEM TO BE SOLVED: To provide a back door structure for a vehicle in which a balancer does not jump out in a vehicle cabin despite the fact that the balancer is placed in a cabin and a dead space in the vehicle cabin can be reduced.SOLUTION: A representative configuration of a back door structure for a vehicle related to the present invention is characterized as follows: an upper end of the back door is turnably attached to a vehicle body; the back door includes an inner panel made of resin; a balancer 130 is disposed inside the vehicle cabin; the balancer is disposed in the vehicle vertical direction while the back door is closed; one end being the upper end side of the balancer is connected to the vehicle body in the closed state of the back door; and the other end part being the lower end side of the balancer in the closed state of the back door is connected to the inner panel of the back door. In the back door structure for the vehicle, a recess 124 for housing the balancer while the back door is closed is provided in the inner panel, and a connecting member (ball stud 126) for connecting the other end part of the balancer is disposed in the recess.

0) FR3014824B – STRUCTURE DE VEHICULE AUTOMOBILE A CHARGEMENT L...

167) Family number: 59602275 (FR3014824B) © PatBase

Title: STRUCTURE DE VEHICULE AUTOMOBILE A CHARGEMENT LATERAL

Priority: FR20130062661 20131216

Family:

Publication number	Publication date	Application number	Application date
FR3014824 A1	20150619	FR20130062661	20131216
FR3014824 B1	20160122	FR20130062661	20131216

Probable Assignee: RENAULT SA

Assignee(s):(std)**:** RENAULT SA ; RENAULT SAS

Inventor(s):(std)**:** CANDUSSI GILLES ; FROMENTIN PHILIPPE

Inventor(s): GILLES CANDUSSI ; PHILIPPE FROMENTIN

Agent(s): RENAULT SAS

International class (IPC 8–9): B60J10/08 B60J5/04 B62D65/06 (Advanced/Invention)

CPC: B60R21/026 B60J5/0479 B60J5/06 B60J10/84 B60J10/86

Classification Explorer

Cited documents: GB2408025 A1,

DE102011117180 A1

Abstract:
Source: FR3014824A L'invention concerne une structure de vehicule automobile comprenant deux parois laterales et un habitacle. Ledit habitacle presentant, d'une part un espace arriere (16) et un espace avant (14) de conduite, et d'autre part une paroi transversale (20) isolant ledit espace avant (14) dudit espace arriere (16), au moins l'une desdites deux parois laterales (12) presentant, une ouverture avant (28) debouchant dans ledit espace avant (14) et une ouverture arriere (30) debouchant dans ledit espace arriere (16), ladite au moins une desdites parois (12) comprend une porte avant (50) destinee a obturer ladite ouverture avant (28) et une porte arriere (56) destinee a obturer ladite ouverture arriere (30). Ladite ouverture avant (28) et ladite ouverture arriere (30) definissent ensemble une seule ouverture libre (26), tandis que lesdites portes avant (50) et arriere (56) viennent en contact l'une avec l'autre lorsqu'elles obturent respectivement lesdites ouvertures avant (28) et arriere (30). The invention relates to a motor vehicle structure comprising two side walls and a passenger. Said housing having, on the one hand, a rear space (16) and a front space (14) of pipe, and on the other hand a transverse wall (20) before said insulating space (14) of said rear space (16), at least one of said two side walls (12) having a front opening (28) opening in said front space (14) and a rear opening (30) opening into said rear space (16), said at least one of said walls (12) comprises a front door (50) for closing said front opening (28) and a rear door (56) for closing said rear opening (30). Said front opening (28) and said rear opening (30) together define a single unobstructed opening (26) while said front door (50) and rear (56) come into contact with each other when close off respectively said front openings (28) and rear (30).

168) Family number: 60066164 (US2016250912A) © PatBase

Title: VERTICAL SEALING ARRANGEMENT BETWEEN DOORS WITHOUT SIDE PILLARS

Priority: BR20141002997 20140207 BR20141031763 20141218 WO2015BR00012 20150130 BR2014PI02997 20140207 BR2014PI03176 20141218 BR20141331763 20141218

Family:

Publication number	Publication date	Application number	Application date
AR103099 AA	20170419	AR2015P100349	20150206
BR102014002997 A2	20151208	BR20141002997	20140207
CA2927636 AA	20160415	CA20152927636	20150130
CN105899386 A	20160824	CN201580003569	20150130
CO16101181 A2	20170113	CO20160101181	20160421
EP3072722 A1	20160928	EP20150746675	20150130
EP3072722 A4	20170712	EP20150746675	20150130
IN201637013016 A	20160826	IN201637013016	20160413
JP2017505252 T2	20170216	JP20160523905T	20150130
KR20160119752 A	20161014	KR20167011375	20150130
MX2016009133 A1	20161013	MX20160009133	20150130
US2016250912 AA	20160901	US20150030482	20150130
WO15117211 A1	20150813	WO2015BR00012	20150130

Probable Assignee: FCA FIAT CHRYSLER AUTOMOVEIS BRASIL LTDA

Assignee(s):(std)**:** FCA FIAT CHRYSLER AUTOMOVEIS BRASIL LTDA ; FIAT AUTOMOVEIS S A

Assignee(s): FIAT AUTOMOVEIS SA ; PEREIRA MARCELO FERREIRA ; BICALHO GUILHERME FERREIRA SETTE ; BORGES FILHO AROLDO GASPAR ; DA SILVA ANDERSON SEIXAS MALTA

Inventor(s):(std)**:** ANDERSON SEIXAS MALTA DA SILVA ; AROLDO GASPAR BORGES FILHO ; BICALHO GUILHERME FERREIRA SETTE ; BORGES AROLDO GASPAR FILHO ; BORGES FILHO AROLDO GASPAR ; DA SILVA ANDERSON SEIXAS MALTA ; GUILHERME FERREIRA SETTE BICALHO ; MARCELO FERREIRA PEREIRA ; PEREIRA MARCELO FERREIRA ; SILVA ANDERSON SEIXAS MALTA DA

Agent(s): SARKIS MARCELO K; INES CONSUELO BENJUMEA RENDON; GERVASI GEMMA; OHNO SEIJI; ARIBONI FABBRI E SCHMIDT SOCIEDADE DE ADVOGADOS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** B60J10/00 B60J10/08 B60J10/15 B60J10/23 B60J10/235 B60J10/24 B60J10/248 B60J10/25 B60J10/32 B60J10/36 B60J10/80 B60J10/86 B60J5/00 B60R13/07 (Advanced/Invention)

CPC: B60J10/40 B60J10/248 B60J10/15 B60R13/07 B60Y2200/14 B60J10/25 B60J10/86 B60J10/23

US class: 296/154

Classification Explorer

Cited documents: WO04103749 A1, US6686020 BB, US6641205 BA, US5590926 A, US5527583 A, US4998946 A, US4492405 A, US2014223830 AA, US2013047519 AA, US2012023830 AA, US2010095599 AA, US2009070960 AA, US2007113482 AA, GB2398597 A1, EP1346864 A1, EP1031690 A1, DE4029091 A1, CN201712450 U,

Abstract:
Source: US2016250912A A vertical sealing arrangement to be used between doors of utility motor vehicles of

various types, such as pickups, trucks, SUVs, sedans, hatchbacks and the like with front and rear doors without the side pillar, the so−called B pillar, is formed by two mouldings, the top collector and the bottom discharger, which are interconnected by an extruded profile having at least one hollow longitudinal cavity the lumen of which interconnects−the inside volume of the collector to the inside volume of the discharger, thus defining a flow path for water and dust deposited on the upper part of the vehicle down to the lower part of the vehicle.

0) US2015360547A – WEATHERSTRIP FOR VEHICLE

169) Family number: 61122507 (US2015360547A) © PatBase

Title: WEATHERSTRIP FOR VEHICLE

Priority: JP20140120729 20140611 JP20140120747 20140611

Family:

Publication number	Publication date	Application number	Application date
JP2016000564 A2	20160107	JP20140120729	20140611
JP2016000565 A2	20160107	JP20140120747	20140611
TH152417 A	20160519	TH20151003201	20150609
US2015360547 AA	20151217	US20150724406	20150528

Probable Assignee: NISHIKAWA RUBBER CO LTD

Assignee(s):(std)**:** NISHIKAWA RUBBER CO LTD

Assignee(s): NISHIKAWA RUBBER CO

Inventor(s):(std)**:** OGAWA HIROFUMI ; OGAWA HIROSHI

Agent(s): MAEDA AND PARTNERS

International class(IPC 8–9)**:** B60J10/00 B60J10/08 B60J10/86 B60J5/04 B60R13/06 E06B7/22 (Advanced/Invention); B60J10/08 (Core/Invention)

CPC: B60J5/0479 B60J10/21 B60J10/25 B60J10/40 B60J10/84 B60J10/86 B60J10/87

US class: 49/368

Classification Explorer

Cited documents: US6332641 BA, US6039384 A, US4561690 A, US2015273993 AA, US2015251529 AA, US2015210219 AA, US2014049067 AA, US2013019538 AA, US2012161463 AA, US2012159858 AA, US2011252707 AA,

Abstract:
Source: US2015360547A First and second fins extending toward a second–closing door are provided at an upper end of a side–edge seal of a first–closing door of a double door of a vehicle. When the first–closing door is closed, the first fin overlaps the body–side seal, and the second fin overlaps an outer surface of the vehicle body outside the body–side seal. When the second–closing door is closed, an inner surface of the second–closing door abuts on the body–side seal to run on the side–edge seal from the first fin. A seal portion of the second–closing door abuts on the outer surface of the vehicle body outside the body–side seal to run on the side–edge seal from the second fin. The first and second fins are deformed independently from each other.

0) US2016039359A – FRONT PILLAR EXTERIOR GARNISH FOR A VEHICLE BOD...

170) Family number: 61642853 (US2016039359A) © PatBase

Title: FRONT PILLAR EXTERIOR GARNISH FOR A VEHICLE BODY

Priority: US20140034407P 20140807 US20150813360 20150730

Family:

Publication number	Publication date	Application number	Application date
US2016039359 AA	20160211	US20150813360	20150730
US9481320 BB	20161101	US20150813360	20150730

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s):(std)**:** HONDA MOTOR CO LTD

Assignee(s): HONDA MOTOR CO

Inventor(s):(std)**:** BACH EDWARD ; HORNER KURTIS RAY ; ORDONIO JR ANTHONY ; ROMPAGE ADAM J

Agent(s): RANKIN HILL AND CLARK LLP

International class (IPC 8–9): B60J10/08 B60R13/00 B60R13/04 B62D25/04 (Advanced/Invention)

CPC: B60R13/00 B62D25/04 B60J10/84 B60R13/04

US class: 296/193.06

Classification Explorer

Cited documents: US9302710 BB, US8662568 BB, US8622465 BB, US8523275 BB, US8454083 BB, US8444211 BB, US7845713 BB, US7735907 BB, US7434870 BB, US7344186 BA, US6854786 BB, US5988733 A, US5772277 A, US5575500 A, US5163730 A, US4653801 A, US4355843 A, US2016068116 AA, US2016068115 AA, US2014084631 AA, US2013257101 AA, US2013241238 AA, US2013193716 AA, US2010060037 AA, US2006138807 AA, US2003227192 AA, US2002057003 AA, US2001040392 AA, US2001002762 AA, JP5045505 B2, JP5001229 B2, JP4244558 A2, JP4147797 A2,

Forward Citations: US9713980, US2017136941,

Abstract:
Source: US2016039359A A vehicle body assembly includes a front pillar extending at an incline rearwards and upwards to form a part of a door opening. The front pillar includes a tubular structural member. The structural member defines a vehicle exterior–side wall section and a passenger compartment–side wall section. A windshield is adhered to the vehicle exterior–side wall section of the structural member. A pillar outer cover is disposed outwardly of the front pillar and is secured to the exterior–side wall section of the structural member. The pillar outer cover includes an edge section overlapping and sealingly engaged to the windshield.

0) US2016129764A – BUS SIDE WINDOW ASSEMBLY AND METHOD

171) Family number: 62326752 (US2016129764A) © PatBase

Title: BUS SIDE WINDOW ASSEMBLY AND METHOD

Priority: US20140077387P 20141110 US20150937102 20151110

Family:

Publication number	Publication date	Application number	Application date
CA2911862 AA	20160510	CA20152911862	20151110
US2016129764 AA	20160512	US20150937102	20151110
US9796249 BB	20171024	US20150937102	20151110

Probable Assignee: CORP MICRO BIRD INC

Assignee(s):(std)**:** CORP MICRO BIRD INC

Assignee(s): BEAUPRE HUGUES ; CHABOT PASCAL ; MICRO BIRD INC CORP

Inventor(s):(std)**:** BEAUPRE HUGUES ; CHABOT PASCAL

Agent(s): GOUDREAU GAGE DUBUC; GWENDOLINE

International class (IPC 8–9)**:** B60J1/00 B60J1/08 B60J1/10 B62D31/02 B62D65/02 B62D65/06 (Advanced/Invention)

CPC: B60J1/10 B62D31/02 B62D65/024 B60J1/006 B62D65/06

US class: 156/99 29/428 296/178

Classification Explorer

Cited documents: US7077459 BB, US6000746 A, US5915780 A,

Abstract:
Source: US2016129764A A side window assembly for a vehicle comprising a cabin, a chassis window frame rail, and a body with a door integral therewith and aligned with the chassis rail axis, comprising a window frame fitted within an opening between a front post of the door and an internal edge of the cabin independently of an internal fender panel and of a fender of the cabin, and a glazing, secured to the window frame to fill the opening.

0) WO17009320A1 – DIVISION SET OF A CAR, ASSEMBLY OF THE DIVISION...

172) Family number: 64692620 (WO17009320A1) © PatBase

Title: DIVISION SET OF A CAR, ASSEMBLY OF THE DIVISION SET WITH A FRAMELESS WINDOW AND ANOTHER ADJACENT WINDOW OF A CAR, AND PROCESS FOR MANUFACTURING THE SET AND THE ASSEMBLY

Priority: EP20150176878 20150715

Family:

Publication number	Publication date	Application number	Application date
EP3118040 A1	20170118	EP20150176878	20150715
WO17009320 A1	20170119	WO2016EP66495	20160712

Probable Assignee: AGC GLASS EUROPE

Assignee(s):(std)**:** AGC GLASS EUROPE

Inventor(s):(std)**:** HICK ROBERT ; MUYLKENS PHILIPPE ; MACHACEK JIRI ; HYNEK ROMAN

Agent(s): CHABOU SAMIA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J10/00 B60J10/777 (Advanced/Invention)

CPC: B60J10/777 B60J10/18 B60J10/24 B60J10/77 B60J10/78

Classification Explorer

Cited documents: WO06067622 A1, US5261721 A, US2011109009 AA, JP1154014 U1, JP1154014 U, DE102010023984 A1

Abstract:
The invention relates to a division set (1) for sealing a first retractable frameless window (6) of a car (3) and a second window (2) of the car, adjacent to the first one (6), including a profile (9), to be secured to the second window (2), and a gasket (10) for sealing the two windows (2, 6). According to the present invention, the gasket (10) of a desired shape is (5) made of a TPE material encapsulated with the profile (9) of the division set (1).

0) DE102015213584A1 – HECKBEREICH EINES KRAFTFAHRZEUGS REAR AREA OF ...

173) Family number: 64776289 (DE102015213584A1) © PatBase

Title: HECKBEREICH EINES KRAFTFAHRZEUGS REAR AREA OF A MOTOR VEHICLE (Machine translation)

Priority: DE201510213584 20150720

Family:

Publication number	Publication date	Application number	Application date
DE102015213584 A1	20170126	DE201510213584	20150720

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Inventor(s):(std)**:** HUBER DANIEL ; KOCH ALOIS ; REISBOECK MARCO ; STEIN MICHAEL

International class (IPC 8–9)**:** B60J5/10 B62D25/02 B62D25/08 (Advanced/Invention)

CPC: B62D25/08 B60J5/107 B60J5/105

Classification Explorer

Abstract:
Source: DE102015213584A1 Bei einem Kraftfahrzeug mit wenigstens einer seitlich aufschwenkenden Hecktuer ist das Scharnier fuer die Anbindung der Hecktuer unterhalb des rueckwaertigen Abschnitts eines hinteren Seitenwandbauteils angeordnet. Dadurch grenzt die Hecktuer unmittelbar an das hintere Seitenwandbauteil an, wodurch sich ein ansprechendes aeusseres Erscheinungsbild mit nur einer Fuge zwischen Hecktuer und hinterem Seitenwandbauteil ergibt. In a motor vehicle with at least a side on pivoting rear door, the hinge for the connection of the tailgate below the rear section of a back page wall component is arranged. This tailgate borders directly on the rear page wall component, which results in an attractive appearance with only a gap between the tailgate and rear page wall component.

0) DE102016009135A1 – TUERSYSTEM FUER EIN KRAFTFAHRZEUG UND VERFAHREN...

174) Family number: 64906956 (DE102016009135A1) © PatBase

Title: TUERSYSTEM FUER EIN KRAFTFAHRZEUG UND VERFAHREN ZUM BETREIBEN EINES TUERSYSTEMS DOOR SYSTEM FOR A MOTOR VEHICLE AND METHOD FOR OPERATING A DOOR SYSTEM (Machine translation)

Priority: DE201610009135 20160728

Family:

Publication number	Publication date	Application number	Application date
DE102016009135 A1	20170216	DE201610009135	20160728

Probable Assignee: DAIMLER AG

Assignee(s):(std)**:** DAIMLER AG

Inventor(s):(std)**:** KRISHNAMURTHY ARUN

International class (IPC 8–9): B60J10/86 B60J5/04 (Advanced/Invention)

CPC: B60J10/86 B60J5/0479 B60J10/244

Classification Explorer

Cited documents: DE102005007906 A1

Abstract:
Source: DE102016009135A1 Die Erfindung betrifft ein Tuersystem fuer ein Kraftfahrzeug (10), umfassend zumindest eine Vordertuer (12) und eine Hintertuer (14), welche an jeweiligen Fahrzeugsaeulen (16, 18) gegenlaeufig zwischen einer Offenstellung und einer Schliessstellung verschwenkbar gelagert sind; jeweiligen an der Vordertuer (12) und Hintertuer (14) angeordneten Tuerdichtungen (20, 22), welche sich in der Schliessstellung ueberlappen; eine Pumpvorrichtung, welche dazu ausgebildet ist, einen derartigen Unterdruck in zumindest einer der Tuerdichtungen (20, 22) herzustellen, dass die ueberlappung der Tuerdichtungen (20, 22) in der Schliessstellung aufgehoben wird, sobald anhand zumindest eines Kriteriums erfasst wird, dass zumindest eine der Tueren geoeffnet werden wird. Die Erfindung betrifft des Weiteren ein Verfahren zum Betreiben eines Tuersystems eines Kraftfahrzeugs 10. The invention relates to a door system for a motor vehicle (10), to at least a front door (12) and a back door (14), which each vehicle columns (16, 18) in opposite directions are mounted reverse swing bar between an open position and a closed position; (20, 22), which overlap the door seals on the front door (12) and back door (14) in the closed position; a pumping device that is trained to do so, a such low pressure in at least one of the door seals (20, 22) to produce, that overlap the door seals (20, 22) is repealed in the closed position when using at least a criterion, it is recorded that at least one of the doors will be opened. The invention also relates to a process for operating a door system of a motor vehicle 10

0) DE102015220146A1 – VERFAHREN ZUM ABDECKEN EINER FENSTERSCHACHTOEFF...

175) Family number: 65461869 (DE102015220146A1) © PatBase

Title: VERFAHREN ZUM ABDECKEN EINER FENSTERSCHACHTOEFFNUNG, EIN ABDECKELEMENT UND EINE VORRICHTUNG ZUM AUSRICHTEN EINES POSITIONIERELEMENTES AN EINEM ABDECKELEMENT PROCEDURES TO COVER A WINDOW SHAFT OPENING, AN OFF−DECK ELEMENT AND A DEVICE FOR POSITIONING A POSITIONING ELEMENT ON AN OFF DECK ELEMENT (Machine translation)

Priority: DE201510220146 20151016

Family:

Publication number	Publication date	Application number	Application date
DE102015220146 A1	20170420	DE201510220146	20151016

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Inventor(s):(std)**:** DEMMEL THOMAS ; SCHRAGNER MARCUS ; STEIN JOHANN

International class (IPC 8–9)**:** B60J10/00 B60J10/75 B60R13/02 (Advanced/Invention)

CPC: B60J10/00 B60J10/75 B60R13/02 B60R13/04

Classification Explorer

Cited documents: DE3737212 A1, DE19934773 A1,

Abstract:
Source: DE102015220146A1 Die Erfindung betrifft Verfahren zum Abdecken einer oeffnung (22) eines Fahrzeuges (1) mit einem Abdeckelement (30) zumindest in einer Laengserstreckungsrichtung (X) der oeffnung (22), insbesondere bei einem Kraftfahrzeug, mit Schritten des (A) Bereitstellens von Positionsinformation einer ersten Position (51) einer ersten Positioniermarke (41) an der oeffnung (22), des (B) Ausmittelns der Erstreckung des Abdeckelementes (30) in der Laengserstreckungsrichtung (X) der oeffnung (22), des (C) Bestimmens einer zweiten Position (52) am Abdeckelement (30) aus der ausgemittelten Erstreckung des Abdeckelementes (30), des (D) Ausbildens einer zweiten Positioniermarke (42) am Abdeckelement (30) an der zweiten Position (52) und des (E) Anbringens des Abdeckelementes (30) an der oeffnung (22), wobei die zweite Positioniermarke (42) an der ersten Positioniermarke (41) ausgerichtet wird oder bleibt. The invention relates to methods for covering an opening (22) a (1) vehicle with a drop deck element (30) at least towards a longitudinal extension (X) the opening (22), in particular for a motor vehicle, with steps of (A) providing position information of a first position (51) a first position mark (41) at the opening (22), (B) using the extension of the deck element (30) towards the longitudinal extension (X) the opening (22), (C) determining a second position (52) on the cover element (30) from the averaged made extension of the cover element (30), of the (D) making a second positioning mark (42) on the cover element (30) at the second position (52) and (E) attaching the cover element (30) on the opening (22), and the second position mark (42) at the first position mark (41) is aligned or remains.

0) US2017183039A – VEHICLE PILLAR STRUCTURE

176) Family number: 66205941 (US2017183039A) © PatBase

Title: VEHICLE PILLAR STRUCTURE

Priority: JP20150254228 20151225

Family:

Publication number	Publication date	Application number	Application date
DE102016123208 A1	20170629	DE201610123208	20161201
JP2017114410 A2	20170629	JP20150254228	20151225
US2017183039 AA	20170629	US20160340280	20161101

Probable Assignee: TOYOTA JIDOSHA KK

Assignee(s):(std)**:** TOYOTA MOTOR CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA KK

Inventor(s):(std)**:** MINEI TAICHI ; TERADA MAKOTO ; TERADA SHIN ; TOYODA MASARU ; TOYOTA MASARU

International class (IPC 8–9): B60J1/00 B60J1/02 B62D21/15 B62D25/04 (Advanced/Invention)

CPC: B62D25/04 B62D21/152 B60Y2306/01

Classification Explorer

Cited documents: WO14073498 A1, US9227673 BB, US6669275 BB, US5941596 A, US1593005 A, JP2013075661 A2, GB2457034 A1, FR2990650 B1, FR2990650 A1, EP2852501 B1, EP0686543 A1,

DE102004056075 A1

DE10125171 A1,

Abstract:
Source: US2017183039A A vehicle pillar structure comprises a pillar portion, the pillar portion extends in parallel with an outer side end portion in a vehicle transverse direction of a windshield glass and, as viewed from a longitudinal direction of the pillar portion, has a hollow structure. The pillar portion comprises an outer side wall forming a wall portion at a vehicle outer side of the pillar portion, an inner side wall forming a wall portion at a vehicle cabin side of the pillar portion, and a pair of side walls linking the outer side wall and the inner side wall together. At least a portion of the outer side wall is an outer side transparent portion, and at least a portion of the inner side wall is an inner side transparent portion that is disposed so as to face the outer side transparent portion as viewed by a driver.

0) US2017254132A – REAR ACCESS DOOR LATCH AND SEALING SYSTEMS

177) Family number: 66860756 (US2017254132A) © PatBase

Title: REAR ACCESS DOOR LATCH AND SEALING SYSTEMS

Priority: US20160303082P 20160303 US20170438836 20170222

Family:

Publication number	Publication date	Application number	Application date
CN107150576 A	20170912	CN201710111930	20170228
DE102017202919 A1	20170907	DE201710202919	20170223
US2017254132 AA	20170907	US20170438836	20170222

Probable Assignee: MAGNA CLOSURES INC

Assignee(s):(std)**:** MAGNA CLOSURES INC

Inventor(s):(std)**:** CETNAR ROMAN ; DOMENCHINI JEFFREY RICHARD F ; FERRI JAMES J ; OXLEY PETER LANCE ; SCHATZ KURT ; SCHATZ KURT M ; SCHEURING JOSEPH ; STOOF FRANK ; TOMASZEWSKI KRIS

International class (IPC 8–9): B60J10/86 B60J5/04 E05B77/46 E05B83/38 E05D15/58 E05D3/12 (Advanced/Invention)

CPC: E05D15/58 E05D3/127 E05B83/38 B60J5/0479 B60J10/86 E05Y2900/531 E05D2015/485 E05D2015/586

Classification Explorer

Abstract:
Source: US2017254132A The present disclosure generally relates to a two–door closure system for a motor vehicle including a body having an A–pillar and a C–pillar being spaced from one another. According to an aspect of the disclosure, the closure system includes a front door having a front edge that is pivotably connected to the A–pillar. The closure system also includes a rear door that has a rearward edge that is pivotably coupled to the C–pillar of the vehicle body. At least one swivel hinge unit is provided that has a first pivot pin that is pivotably connected to the rearward edge of the rear door, and a second pivot pin for being pivotably connected to the C–pillar of the vehicle body to allow the rear door to initially pivot and translate away from the front door prior to pivoting the rear door between an open and closed position about the second pivot pin.

0) US2017297509A – ONE–PIECE HEADLINER AND PILLAR TRIM ASSEMBLY OF...

178) Family number: 67232046 (US2017297509A) © PatBase

Title: ONE–PIECE HEADLINER AND PILLAR TRIM ASSEMBLY OF A VEHICLE

Priority: CN201610244702 20160418

Family:

Publication number	Publication date	Application number	Application date
US2017297509 AA	20171019	US20170455430	20170310

Probable Assignee: FORD GLOBAL TECH LLC

Assignee(s):(std)**:** FORD GLOBAL TECH LLC

Assignee(s): FORD GLOBAL TECHNOLOGIES LLC

Inventor(s):(std)**:** SHAMI SALMAN NAZIR

International class (IPC 8–9): B60J1/02 B60R13/02 B60R21/213 B60R21/232 B62D25/04 B62D65/14 (Advanced/Invention)

CPC: B60R13/0212 B62D65/14 B62D25/04 B60R21/232 B60J1/02 B60R21/213 B60R13/025 B60R2013/0287

Classification Explorer

Abstract:
Source: US2017297509A A headliner and pillar trim assembly of a vehicle comprises a headliner portion including the headliner cover layer and a headliner backing layer; and a plurality of pillar portions each including a pillar trim and a pillar cover layers. The headliner cover layer and a plurality of the pillar cover layers are formed as a one–piece cover layer, and the headliner backing layer and a plurality of the pillar trims are attached to the headliner cover layer and the plurality of pillar cover layers, respectively.

- **search:** SS5 FT=(weather and strip and (collector or cup)) and IC=B60J (Results 147)
- List: SS5 1–25 (FT=(weather and strip and (collector or cup)) and IC=B60J) (Results 147)

0) GB194183A – IMPROVEMENTS IN AND RELATING TO TRANSPARENT WIN...

1) Family number: 18406349 (GB194183A) © PatBase

Title: Improvements in and relating to transparent wind screens and the like

Priority: GB19220010927 19220419

Family:

Publication number	Publication date	Application number	Application date
GB194183 A	19230308	GB19220010927	19220419

Probable Assignee: ALBERT EDGAR STEEL

Assignee(s):(std)**:** ALBERT EDGAR STEEL

International class (IPC 8–9)**:** B60S1/54 (Advanced/Invention); B60S1/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/02

CPC: B60S1/54

European class: B60S1/54

Classification Explorer

Forward Citations: WO16205501,

Abstract:
Source: GB194183A 194,183. Steel, A. E. April 19, 1922. Windows, preventing condensation on. – A current of air is delivered on to a wind – screen and c. to remove moisture and c. by a funnel–shaped air scoop b secured by hooks c, the air passing through a narrow slit f at the base, and cross–currents being prevented by division and side plates g. A second deflector j may be applied at the base of the screen by means of an extension k. Drainage holes j<2> may be provided.

0) GB220688A – IMPROVEMENTS IN, AND RELATING TO, WEATHER SCREE...

2) Family number: 18425414 (GB220688A) © PatBase

Title: Improvements in, and relating to, weather screens for motor road vehicles and the like

Priority: GB19230010988 19230423

Family:

Publication number	Publication date	Application number	Application date
GB220688 A	19240825	GB19230010988	19230423

Probable Assignee: FRANK EDWARD MORRISS

Assignee(s):(std)**:** FRANK EDWARD MORRISS

International class (IPC 8–9)**:** B60J1/02 (Advanced/Invention); B60J1/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/04

CPC: B60J1/02

European class: B60J1/02

Classification Explorer

Forward Citations: US7128152,

Abstract:
Source: GB220688A 220,688. Morriss, F. E. April 23, 1923. Wind–screens.–In a wind and weather screen for motor–vehicles of the kind comprising a flexible sheet 8, Fig. 1, of celluloid or like material mounted upon a roller and connected to an extensible frame pivotally supported on the vehicle, the casing n enclosing the spring–roller mechanism is rotatably and lockably mounted by means of screws r, s in sockets e, k and the edges of the screen are guided in a frame composed of a number of channel–shaped sections v, w, x telescopically assembled and adapted for successive operation. In the construction shown in Fig. 1, the screens are employed on the sides of the vehicle and the sockets k are supported by pins h passing into sockets f, Fig. 3, on clamps g embracing the frame d of the front wind–screen c. The screen may be retained in its extended position by means of a vertically sliding bolt 2 on the rear frame member y engaging a socket 4 on the door b, so that the screen is swung aside when the door is opened. The lower edge of the frame v, w, would normally be disposed lower than the. upper edge of the door, but, by adjustment of the screws r and the screws m of the sockets f, the screens may be lifted upwardly so as to permit the doors opening freely. In a modification, as shown in Figs. 6 and 8, two screens constructed as above described are arranged to form a transverse V–shaped screen for the rear seats of a motor–car. The two screens are connected at the. centre by means of extensible rods 18, 18 carried by the screen, one set of rods, 18 carrying members 22 through which a vertical bolt 23 passes, and the other set of rods 18 carrying halfsleeves 28, which are adapted to embrace the members 22 and to be held in this position by the recessed portions 27 of nuts 25 screwing on the bolt 23.

0) GB343204A – IMPROVEMENTS IN AND RELATING TO DOORS FOR VEHIC...

3) Family number: 18867190 (GB343204A) © PatBase

Title: IMPROVEMENTS IN AND RELATING TO DOORS FOR VEHICLES

Priority: GB19290036607 19291129

Family:

Publication number	Publication date	Application number	Application date
GB343204 A	19310219	GB19290036607	19291129

Probable Assignee: WILFRID OVERTON

Assignee(s):(std)**:** WILFRID OVERTON

International class (IPC 8–9): B60J5/04 E05D7/08 (Advanced/Invention); B60J5/04 E05D7/08 (Core/Invention)

International class (IPC 1–7): B60J5/00

CPC: E05Y2900/531 E05D7/081

European class: E05D7/08 P05Y900/531

Classification Explorer

Forward Citations: US2603823,

Abstract:
Source: GB343204A 343,204. Pivots for vehicle doors. OVERTON, W., Marsh Street, Walsall. Nov. 29, 1929, No. 36607. [Class 103 (ii).] A vehicle door is supported on two pivot bearings arranged in line with one another near the edge of the door remote from the latch. The upper pivot pin c, Fig. 6, is secured in a bracket d fixed to the inside of the cantrail and works in a socket fixed to the inside of the door at the top. The lower pivot pin n, Fig. 4, is secured in a bracket d fixed to the inside of the bottom of the door and is screwed into the inner element of a roller bearing q carried in a cup j fixed to the floor or to a step below the floor level. The door is raised to correct for sag by adjusting the roller bearing on the threaded pivot pin n by means of the cap p, which is keyed to the bearing; a locking nut o is provided. The pivot pins c, n may be parts of a single rod extending throughout the length of the door, in which case the upper pin c is made free in its socket d. The edge of the door near the pivots is rounded, and the body pillar is shaped so that there is no gap as the door opens. A weather and draught–excluding strip may be provided.

0) GB393349A – IMPROVEMENTS IN ADJUSTABLE HOLDERS OR STAYS FOR...

4) Family number: 20557539 (GB393349A) © PatBase

Title: Improvements in adjustable holders or stays for doors, windows, shutters, and like hinged or pivoted articles

Priority: GB19320000851 19320112

Family:

Publication number	Publication date	Application number	Application date
GB393349 A	19330608	GB19320000851	19320112

Probable Assignee: HAROLD BERNARD DOWLER

Assignee(s):(std)**:** HAROLD BERNARD DOWLER

International class (IPC 8–9): E05C17/34 (Advanced/Invention); E05C17/00 (Core/Invention)

International class (IPC 1–7): B60J1/14 B62D25/12 E05C17/34

CPC: E05C17/34

European class: E05C17/34

Classification Explorer

Forward Citations: US2488305, FR2847933, FR2397593, EP1426532,

Abstract:
Source: GB393349A 851. [Classes 65 (i) and 65 (ii).] Pivoting–adjustments.–In a stay for hinged articles of the type comprising two arms connected together by a pivot which is arranged to hold the arms in'any position, each arm is formed of a single strip and the pivot comprises pair of discs pressed together by spring members and having interengaging projections and indentations to hold the arms at any angle, the parts being held together by a pivot pin formed of a bolt and nut. The arms a, a <1> are pivoted to brackets b, b <1> fixed to the hinged members, and the discs c, c <1> of the joint are integral with the arms. The disc c is formed with a number of indentations e <1> on its underside, which engage with corresponding projections e, Fig. 5, on the disc c. The discs are pressed together, to produce the necessary resistance to rotation of the arms by spring–armed members g, Fig. 2, or spring cup members g <1> , Fig. 5, secured on the pivot bolt f; the cup members g <1> serve to exclude dust and weather. The disc c <1> has a down–turned lug j which forms a stop. In a modification, the arms a, a <1> are formed of strip metal separate from the discs c, cl which are provided with short arms to embrace and be fixed to the arms a, a <1> . Reference has been directed by the Comptroller to Specifications 9081/08, [Class 65, Hinges and c.], 22174/09, 2462/11 and 12158/12, [all in Class 65 (ii), Hinges and c.].

0) US2050071A – HINGE

5) Family number: 21344985 (US2050071A) © PatBase

Title: HINGE

Priority: GB19320028793 19321014 GB19320028795 19321014 GB19320028794 19321014 US19340715859 19340316 US19330693290 19331012 US19340715858 19340316 US19340755898 19341204

Family:

Publication number	Publication date	Application number	Application date
BE402119 A	00000000		00000000
DE628256 A	19360331	DE1933S111321	19331015
DE637118 A	19361022	DE1933S111322	19331015
FR775556 A	19350104		19331014
GB408980 A	19340416	GB19320028794	19321014
GB411881 A	19340614	GB19320028795	19321014
GB412195 A	19340614	GB19320028793	19321014
GB412203 A	19340614	GB19340007655	19321014
GB412204 A	19340614	GB19340007656	19321014
US1998528 A	19350423	US19340715859	19340316
US2049474 A	19360804	US19330693290	19331012
US2050070 A	19360804	US19340715858	19340316
US2050071 A	19360804	US19340755898	19341204

Probable Assignee: SYDNEY SMITH

Assignee(s):(std)**:** SYDNEY SMITH

Inventor(s):(std)**:** SMITH ; SYDNEY SMITH

Inventor(s): SMITH SYDNEY

International class (IPC 8–9)**:** B60G11/22 B60G11/23 B60G11/32 B60G11/38 B60G21/045 B60G7/02 B60G99/00 B60J10/08 B60J5/04 B62D21/11 E05D11/04 E05D7/06 (Advanced/Invention); B60G11/00 B60G11/32 B60G21/00 B60G7/02 B60G99/00 B60J10/00 B60J5/04 B62D21/11 E05D11/00 E05D7/00 (Core/Invention)

International class (IPC 1–7)**:** B60G11/14 B60G11/22 B60G19/02 B60J5/00 B62D21/12 B62D23/00 E05D3/02 E05D7/00

CPC: B60G7/02 B60G11/22 B60G11/23 B60G11/32 B60G11/38 B60G21/045 B60G99/004 B60G2200/10 B60G2204/15 B60G2206/60 B62D21/11 Y10S220/03 E05D3/022 E05D5/121 E05F7/005 E05Y2600/56 E05Y2900/531 E05Y2800/20 E05Y2800/205 E05Y2800/00 Y10T16/524 E05D7/06 E05D11/04 E05D2011/045 Y10T16/543 Y10T70/8892 B60J10/80 E05D3/02

European class: B60G11/22 B60G11/23 B60G11/32 B60G11/38 B60G21/045 B60G7/02 B60G99/00C B60J10/08 B60J5/04 B62D21/11 E05D11/04 E05D3/02 E05D7/06 L60G200/100 L60G204/15 L60G206/60 P05D11/04B P05D3/02B P05D5/12B P05D7/06 P05F7/00C P05Y600/56 P05Y900/531

US class: 16/224 16/356 220/DIG.3 267/279 267/280 280/124.102 280/124.116 280/124.13 280/124.169 280/153.5 296/193.02 296/203.01 49/401 49/475.1 70/463 D12/196

Classification Explorer

Forward Citations: WO8909718, WO0020237, US8726465, US6595534, US3100549, US3045773, US3034575, US3024060, US2830826, US2826787, US2740658, US2705154, US2650668, US2647012, US2606346, US2471810, US2012023705, FR2403924, EP0335888, EP0122891, DE973418, DE968706, DE762692, DE741063, DE1153271, DE1144122, DE1096216,

Abstract:
Source: GB408980A 408,980. Hinges. SMITH, S., Dingley Dell Farm, Windlesham Road, Chobham, Surrey. Oct. 14, 1932, No. 28794. [Class 65 (ii).] In a vehicle the door is provided with opposite transverse edges extending in mutually converging relationship so that, with the aid of resilient hinges, it wedges itself when closed and

reinforces the body 10. The hinges are resilient to permit the door to be self–centring and are described in Specification 408,988. Specification 321,417, [Class 108 (i)], also is referred to.

0) US1986694A – GLASS GASKET STRIP

6) Family number: 20420384 (US1986694A) © PatBase

Title: GLASS GASKET STRIP

Priority: US19340720364 19340413

Family:

Publication number	Publication date	Application number	Application date
FR788824 A	19351018		19350406
US1986694 A	19350101	US19340720364	19340413

Probable Assignee: WALKER CHARLES H

Assignee(s):(std)**:** WALKER CHARLES H

Inventor(s):(std)**:** WALKER CHARLES H ; WALKER CHARLES HENRY

International class (IPC 8–9)**:** B60J10/02 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00

CPC: B60J10/70

European class: B60J10/02

US class: 296/93 52/204.597

Classification Explorer

Forward Citations: US4118266,

Abstract:
Source: US1986694A 1. In combination, a metal channel for –receiving the Edge of a glass, a glass in the channel. and n channel shape gasket material within themetal channel and receiving the edge of the glass,;said gasket material comprising, an uncured–rubber–` composition. . ’

0) US1991521A – WINDSHIELD CONTROL MECHANISM

7) Family number: 22002183 (US1991521A) © PatBase

Title:	WINDSHIELD CONTROL MECHANISM
Priority:	US19300473045 19300804

Family:

Publication number	Publication date	Application number	Application date
US1991521 A	19350219	US19300473045	19300804

Probable Assignee:	MOTOR PRODUCTS CORP
Assignee(s):(std):	MOTOR PRODUCTS CORP
Inventor(s):(std):	PRITCHARD WILLIAM S
International class (IPC 8–9):	E05C17/28 (Advanced/Invention); E05C17/00 (Core/Invention)
International class (IPC 1–7):	B60J1/04
CPC:	E05C17/28
European class:	E05C17/28
US class:	296/96.2

Classification Explorer

Abstract:
Source: US1991521A What I claim as my invention is: 1. In afwindshield controlmechanism, a swingingly mounted= windshield, a link pivoted to a fixed support,.a member carried by said windshield provided with a longitudinally extending slot having short slots extending laterally therefrom, means slidably connecting the end of said link to said member including means working in said slots, and means for actuating said member to permit the adjustment of said windshield and to hold said windshield in its adjusted positions. 2. A windshield control mechanism including, a swingingly' mounted windshieldfan arm pivotally connected to a nxed support. a latch bar carried by said windshield and provided with alongitudinal –slot and lateral slots comniunicating therewith, means connecting the end' of said arm to said latch bar including a pin working infsaid slots, means normally rotatablyurging said latch bar in one direction, means on said Windshield remote from said latch bar and means connecting the latter means to the latch bar for rotating said latch bar in the other direction, for the purpose set forth. = ' '» 3. In a windshield control mechanism, a swingingly mounted windshield including a frame, an arm pivoted to 9. fixed support, a rotatable latch bar in said windshield frame at one side thereof, means for slidably connecting the' end of said arm to. said latch bar including a pin carried–by one of said 'members working in longitudinal and lateral slots carried by the other; and latch bar operating means mounted on said windshield remote from said latch bar _and connected to said latch bar by' means extending–through saidgwindshield frame for rotating 'said latch bar, for the purpose set forth. ~ ' ' _ ~ 4. A windshield control mechanism including a swingingiy mounted windshield having a frame, a link pivoted at one end to a 'fixed support, a latching member mounted within said frame at one side thereof, said member being provided With a. longitudinally extending slot and with laterally extending slots communicating with said longitudinal slot, means slidably connecting the other end of said link to said latching member including a» pin working in said slots, means for normally rotatably urging said latching member in one direction, a remote control means, and means connecting said control means to said latching member for rotating said latching member in the other direction, for the purpose set forth. , 5, A windshield control mechanism including 2, swingingly mounted windshield having a. frame, a, link pivoted at one end to a ixed support, a, latching member mounted Within said frame at one side thereof, said member being provided with a longitudinally extending slot and with laterally extending slots communicating with said longitudinal slot, means slidably connecting the other end of said. link to said latching member including aa, pin Working in said slots, means for normally rotatably urging said latching member in one direction, a manually operated handle mounted on said windshield remote from said ~ latching member and means extending through said windshield framing and cdimecting said handle to said latch member for rotating said latching member in the other direction. ` , 6. A windshield control mechanism including, a. windshield having a frame, a supporting frame, means swingingiy mounting said wi.ndsh.ie1d on said. supporting frame, an arm pivotnlly connected to said supporting frame, 9. latching member arranged Within said Windshield frame and provided with a. longitudinal slot; and with lateral slots communicating with said longitudinal slot, means slidably connecting the end of said arm to said latching member including a bracket pivotally connected to said arm and slidably engaging said latching member, a pin carried by said bracket working in said slots, means for normally rotatably urging said latching member in one direction, a. handle rotatably mounted on said windshield, means connecting said handle to said latching member for rotating said latching member in the other direction, said latching member and operating means permitting the adjustment of said windshield and acting to secure said windshield in its adjusted positions, and means carried by said handle and engaging said supporting frame for securing said windshield in its closed position,

0) US2002722A – FROST SHIELD

8) Family number: 22401753 (US2002722A) © PatBase

Title: FROST SHIELD

Priority: US19330695405 19331027

Family:

Publication number	Publication date	Application number	Application date
US2002722 A	19350528	US19330695405	19331027

Probable Assignee: FULTON CO

Assignee(s):(std)**:** FULTON CO

Assignee(s): THE FULTON COMPANY

Inventor(s):(std)**:** THORP JOEL R

International class (IPC 8–9)**:** H05B3/84 (Advanced/Invention); H05B3/84 (Core/Invention)

International class (IPC 1–7)**:** B60J1/02

CPC: H05B3/84

European class: H05B3/84

US class: 219/526 219/532 219/536 219/546 219/552

Classification Explorer

Forward Citations: US4492355,

Abstract:
Source: US2002722A 1. In combination, a frame comprising a metal band embedded within a rubber seal, a transparent sheet coacting along its entire peripheral edge with said seal within said band, said band being spaced from the peripheral edge of said sheet and biased to press said seal into intimate contact with said sheet edge, and heating means carried by said band and disposed within said frame.

0) GB432456A – IMPROVEMENTS RELATING TO PIVOTED WINDOW PANELS ...

9) Family number: 18834721 (GB432456A) © PatBase

Title:	Improvements relating to pivoted window panels or ventilation vanes
Priority:	GB19340012709 19340427

Family:

Publication number	Publication date	Application number	Application date
GB432456 A	19350726	GB19340012709	19340427

Probable Assignee:	HERBERT LINWOOD SLEIGH
Assignee(s):(std)**:**	ARTHUR SAM CHESTON ; FREDERICK JOSEPH STUART ; HERBERT LINWOOD SLEIGH
International class (IPC 8–9)**:**	B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)
International class (IPC 1–7)**:**	B60J1/00
CPC:	B60J1/14
European class:	B60J1/14

Classification Explorer

Abstract:
Source: GB432456A 12709. [Class 20 (iii)] In a window–panel or ventilationvane particularly for use in closed motor vehicles, but stated to be applicable to buildings, adapted to swing on vertical pivots between the front and rear edges of the panel, the pivots comprise a circular boss or drum–like part having a wiping engagement with the ends of rubber, and c., weather strips, one or both of the pivots comprising a clutch or friction device for holding the panel in adjusted position. In the form shown in Figs. 2, 3 and 8, the metal frame 5 of the window 2 is supported by aligned pivots 6, 7, the latter having a coned seating in a socket 23 into which it is frictionally drawn by means of a spring 25. The rubber and c., weather strips comprise a strip 19 secured to a vertical metal bar 20 which divides the hinged window 2 from the vertically–sliding panel 4, and a front strip 16 and upper and lower strips 17, 18, with projecting bead–portions 16 , 17 , 18 respectively, secured to the wooden framing 8. As shown in Fig. 8, the ends of the strips 16, 17, 18 are shaped to fit closely against the pivot bosses. The strip 19 is of channel–section, the edges 19 , 19 closely embracing the (unframed) edge of the window in its closed position. For locking the window in this position, a catch 9 pivoted on the window–frame 5 is formed with a shoulder 9 to engage behind a stop 15 on the framing 8 by the pressure of a spring–actuated pin 12. In the form shown in Figs. 10 and 11, the weather–strip 18 is fitted in a metal channel 28 secured to the framing 8, the flanged walls 28 of the channel being packed with fibrous material impregnated with white lead. Fig. 11 also shows a modified form of pivot–joint comprising a split–collar 30 which is carried by a plate 31 secured to the framing 8 and frictionally engages a cup 7 secured to the window–frame 5. According to other modifications (not shown), the pivots may embody or be associated with a spring–loaded serrated or toothed clutch device.

0) GB436499A – IMPROVEMENTS IN MEANS FOR RECEIVING GLASS IN CH...

10) Family number: 18822558 (GB436499A) © PatBase

Title: Improvements in means for receiving glass in channel frames

Family:

Publication number	Publication date	Application number	Application date
GB436499 A	19351011	GB19350010540	19350405

Probable Assignee: CHARLES HENRY WALKER

Assignee(s):(std)**:** CHARLES HENRY WALKER

International class (IPC 8–9): B60J1/00 (Advanced/Invention); B60J1/00 (Core/Invention)

International class (IPC 1–7): B60J1/02

CPC: B60J1/007

European class: B60J1/00F4

Classification Explorer

Forward Citations: DE3314152,

Abstract:
Source: GB436499A [Class 70] [See also Group X] A glazing strip 12 is composed of uncured rubber strip which may be mixed with 3(per cent of cotton fibres and backed with woven fabric Several strips may be secured together by rolling during manu. facture. The cotton is joined to the rubber by feeding between heated rolls, one travelling faster than the other, and the material pressed by uniformly moving rolls.

0) US2044903A – AUTOMOBILE DOOR CONTROL

11) Family number: 21026809 (US2044903A) © PatBase

Title:	AUTOMOBILE DOOR CONTROL
Priority:	US19350034154 19350801

Family:

Publication number	Publication date	Application number	Application date
US2044903 A	19360623	US19350034154	19350801

Probable Assignee:	EUGENE GRIESHABER
Assignee(s):(std)	EUGENE GRIESHABER
Inventor(s):(std)	EUGENE GRIESHABER
Inventor(s):	GRIESHABER EUGENE
International class (IPC 8–9)	E05B65/12 (Advanced/Invention); E05B65/12 (Core/Invention)
International class (IPC 1–7)	B60J5/00 E05C17/22
CPC:	E05B77/00 Y10T16/276
European class:	E05B77/00
US class:	16/51
Classification Explorer	
Forward Citations:	US4670939, DE942191,

Abstract:
Source: US2044903A 1. In an automobile door control, the combination of a frame supported in a door structure, a link slidably fitted in the adjacent stationary and movable portions of said door structure, an cnlargement on the end of said link, a lever rotatively mounted on said frame, the end of said lever being pivotally connected to the other end of said link, a spring adapted to turn said lever and to pull said link, said enlargement on the link being adapted to engage the outer of said door portions only when said link is being pulled, and being further adapted to slide freely in said door portions when said door is being manually closed, a dash pot with a piston mounted on said frame, a second lever rotatively mounted on said frame, one end of said second lever being operatively connected with said piston, operative connection between said levers, said first lever being adapted. during the iirst portion oi its door closing movement to move said piston through said second lever, said connection between the levers being adapted to become inoperative during the second portion of the door closing movement, a supplementary spring, and means to render said supplementary spring operative during said second. portion of the closing movement of the nrst lever.

0) US2062524A – WINDOW DEVICE

12) Family number: 21234725 (US2062524A) © PatBase

Title: WINDOW DEVICE

Priority: US19350020013 19350506

Family:

Publication number	Publication date	Application number	Application date
US2062524 A	19361201	US19350020013	19350506

Probable Assignee: PARMENTER BERT N

Assignee(s):(std)**:** PARMENTER BERT N

Inventor(s):(std)**:** PARMENTER BERT N

International class (IPC 8–9)**:** B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7)**:** B60J1/14

CPC: B60J1/14

European class: B60J1/14

US class: 454/134 49/146 49/388

Classification Explorer

Forward Citations: US2761184,

Abstract:
Source: US2062524A 1. A window construction comprising a pane and bearings so arranged and constructed as to support the pane for movement about a diagonal axis whereby the top and front portions of the pane may swing inwardly and the bottom and rear portions of the pane may swing outwardly for How of air over and past the former portions and also under and past the latter portions.

0) US2122566A – WINDSHIELD

13) Family number: 21489588 (US2122566A) © PatBase

Title:	WINDSHIELD
Priority:	US19360073711 19360410

Family:

Publication number	Publication date	Application number	Application date
US2122566 A	19380705	US19360073711	19360410

Probable Assignee:	ROSE G FOSTER
Assignee(s):(std)**:**	MORTON WEISS ; ROSE G FOSTER
Inventor(s):(std)**:**	FOSTER WILLIAM H
International class (IPC 8–9)**:**	B60S1/02 (Advanced/Invention); B60S1/02 (Core/Invention)
International class (IPC 1–7)**:**	B60J1/04
CPC:	B60S1/02
European class:	B60S1/02
US class:	296/96.15

Classification Explorer

Forward Citations: FR2190808, FR2190808,

Abstract:
Source: US2122566A 1. In a windshield, in combination, a wind. shield glass having an opening therein, a, glass panel conforming generally to the outline of said opening, said opening being symmetrical on opposite sides of a vertical center line, a pivotal mounting for the panel including pivoting means at top and bottom points on the same, the pivotal axis ol such mounting lying substantially in said center line, and means for sealing the panel in its opening in a Water–tight manner when the panel is arranged substantially parallel with the windshield glass, said means including a structiue parts of which are formed of resilient material, said structure carried by one of said panels and said opening and including elongate beads establishing between thcm an elongate channel.

0) US2124776A – VEHICLE BODY

14) Family number: 21522172 (US2124776A) © PatBase

Title: VEHICLE BODY

Priority: US19370146882 19370607

Family:

Publication number	Publication date	Application number	Application date
US2124776 A	19380726	US19370146882	19370607

Probable Assignee: BAKER RAULANG CO

Assignee(s):(std)**:** BAKER RAULANG CO

Assignee(s): THE BAKER RAULANG COMPANY

Inventor(s):(std)**:** HAWKINS PAUL E

International class (IPC 8–9)**:** B60J5/04 (Advanced/Invention); B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** B62D33/04

CPC: B60J5/0491

European class: B60J5/04K5

US class: 296/186.4 296/37.6

Classification Explorer

Forward Citations: US5826931, US2772913,

Abstract:
Source: US2124776A What I claim is: ’ 1. In a body for a vehicle having a side portion, the combination with a compartment incorporated in said side portion, the outer Wall of the side portion being formed with an opening leading into said compartment and a door for said opening hinged on said outer wall, of a trough provided on the inner side of said door along its top and ends and terminating at the lower edge of the door adjacent its opposite ends. 2. In a body for a vehicle having a side portion, the combination with a compartment incorporated in said side portion, the outer wall of the side portion being formed with an opening leading into said compartment and a door for said opening hinged on said outer Wall, of a trough provided on the inner side of said door along its top and ends and terminating at the lower edge of the door adjacent its opllosite ends, and a baiile carried by said outer wall on the inner side thereof along the top and sides of said opening, whereby said ballle extends over the open side of said trough throughout its entire length, 3. In a body for a vehicle having a side portion, the combination with a compartment incorporated in said side portion, the outer wall of the side portion being formed with an opening leading into said compartment and a door for said opening hinged on said outer wall, of a trough provided on the inner side of said door along its top and ends and terminating at the lower edge of the door adjacent its opposite ends, and a batiie carried by said outer Wall on the inner side thereof along the top and sides of said opening, whereby said baflie extends over the open side of said trough throughout its entire length, that Portion of the baffle extending along the sides of the opening being extended inwardly behind the inner side wall of the trough. 4. A body for a vehicle having a side portion in which is incorporated a compartrnent, said side portion having a sheet metal outer wall formed with an opening leading into said compartment, and a door for said opening hinged at its lower edge, said outer wall above and along the top of said opening being extended to form a guard wall spaced from the door and embossed between said guard wall and the normal plane of said outer wall to form an inverted channel related Lo the top edge of said door to form a space between the door and terminating edge of said guard wall. – 5. A body for a Vehicle having a side portion which is incorporated a compartment, the outer wall of said side portion being formed with an opening leading into said compartment, a hinged door for said opening formed of sheet metal having extended portions which are bent back on the inner side of the door and shaped to form a collecting trough extending along the top and ends of the door, and a bailie carried by said outer Wall along the top and sides of said opening and extending over the open side of said trough throughout its entire length. 6. A body for a vehicle having a side portion in which is incorporated a compartment, the said side portion having a sheet metal outer wall formed with an opening leading into said compartinent, and a door hinged at one edge on said outer wall and consisting of st sheet metal panel the top and ends of which are extended andbent back on the inner side of the door and extended inwardly and terminating in' a batlle spaced from the inner side of the door in parallel relation thereto, the sheet metal forming said opening being extended inwardly thereof to a position beyond said baiile. 7. In zr, body for a vehicle having a side portion, the combination with a compartment incorporated in said side portion, the outer wall of side portion being formed with an opening leading into said compartment and a hinged door for said opening formed of sheet metal, of a reinforcement for the door on the inner side thereof and extending along and parallel to its top edge and end edges, and a continuous channel forming It trough extending along the outer side of said reinforcement in relation to the _top and end edges of the door to collect water leaking through said opening when the door is closed. 8. In a body for

a vehicle having a side portion, the Combination with a compartment incorporated in said side portion, the outer wall of the 303 side portion being formed with an opening lead– ing into said compartment and a door for said opening hinged on said outer wall, of a trough provided on the inner side of said door along its top and ends and terminating at the lower edge of the door adjacent the opposite ends thereof, a baiile carried by said outer wall on the inner side thereof and extending over the open side of said trough, and a collection trough on the inner side of said outer wall adjacent to and extending along the lower edge of said door. 9. In a body for a vehicle having a side portion, tlie combination with a compartment incorporated in said side portion, the outer wall of the side portion being formed with an opening leading into said compartment and a door for said opening hinged on said outer wall, of a trough provided on the inner side of said door along its top and ends and terminating at the lower edge of the door adjacent the opposite ends thereof, st balile carried by said outer wall on the inner side thereof and extending over the open side of said trough, that portion of the bafiie extending along the sides of the opening being extended inwardly behind the inner side wall of the trough, and a collector on the inner side of sa–id outer wall adjacent to and extending along the lower edge of said door. 10. In a body lor a vehicle having a side portion, the combination with a compartment incorporated in said side portion, the outer wall of said side portion being formed with an opening leading into said compartment and a door for said opening hinged along one edge to said outer wall, of an outwardly extending wall provided on said door along its upper edge to form o baffle, and an inverted channel mounted on said outer wall and extending along the upper edge of said opening, the inner wall of said channel being related to the outer edge of the said outwardly extending wall on said door. Il, In a body for a vehicle having a side portion, the combination with a compartment incorporated in said side portion, the outer wall of said side portion being formed with an opening leading into said compartment and a door for said opening hinged along one edge to said outer wall, of an outwardly extending wall provided on said door along its upper edge to form a bafiie, an inverted channel mounted on said outer wall and extending along the upper edge of said opening, the inner wall of said channel being related to thc outer edge of the said wall outwardly extending on said door, a trough on the inner side of said door and extending along and inwardly of its stop and end edges, and a collector on the inner side of said outer wall and extending along the lower Wall of said door opening. 12. In a body for a vehicle having a side portion, the combination with a compartment incorporated in said side portion, the outer wall of said side portion being formed with an opening leading into said compartment and a hinged door for said opening, of a continuous channel forming a trough on the inner side of said door and extending along and inwardly of the top and end edges thereof, Walls on the inner side of said outer wall extending across the open side of those portions of said trough along the ends of said door and extending inwardly behind, the inner wall of said trough, and a collector on the inner side of said outer wall extending along the bottom wall of said door opening, 13. In a body for a vehicle having a side portion, the combination with a– compartment incorporated in said side portion, the outer wall of said side portion being formed with an opening leading into said compartment and 9. hinged door for said opening provided along its upper edge with an outwardly extending baille, of an inverted channel on the outer wall of said side portion above the opening therein, the inner wall of said channel being related to the free edge of said baffle. 14. A body for a vehicle having a side portion in which is incorporated a compartment, the outer Wall of said side portion being formed with an opening leading into said compartment, a hinged door for said opening, the outer wall of said side portion above said door opening being extended outwardly and terminating in a downwardly extending section spaced lrom and parallel to the adjacent edge of said door and a separate, vertically disposed wall on the inner side of said outer wall having its lower edge terminating along and adjacent to the upper edge of said door. 15. A body for a vehicle having a side portion in~ which is incorporated a compartment, the outer wall of said side portion being formed with an opening leading into said compartment, a hinged door for said opening, the upper edge oi' said door being provided with an outwardly extending iiange forming a baiiie and said outer wall having a portion above said door opening extended laterally and terminating in a vertically disposed section spaced from the free edge of said flange, and a separate wall on the inner side of said outer wall disposed vertically and t€1”I1’1iHatir1s along and adjacent the free edge of said flange. 16. A body for a vehicle having a side portion in which is incorporated a compartment, the outer wall of said side portion being formed with an opening leading into said compartment and a hinged door for said opening, provided along its top edge with an outwardly extending baille,

0) US2236447A – WINDOW GUIDE

15) Family number: 19216808 (US2236447A) © PatBase

Title: WINDOW GUIDE

Priority: US19370166615 19370930

Family:

Publication number	Publication date	Application number	Application date
FR843732 A	19390710		19380920
GB518449 A	19400227	GB19380028342	19380929
US2236447 A	19410325	US19370166615	19370930

Probable Assignee: MARVEL EQUIPMENT CORP

Assignee(s):(std)**:** MARVEL EQUIPMENT CORP

Inventor(s):(std)**:** ROETHEL JOHN H

International class (IPC 8–9)**:** B60J1/17 B60J10/04 E05F11/38 E05F11/44 (Advanced/Invention); B60J1/17 B60J10/02 E05F11/38 (Core/Invention)

International class (IPC 1–7)**:** B60J1/17 E05F11/38

CPC: E05F11/382 B60J1/17 B60J10/74 E05F11/445 E05Y2900/55

European class: B60J1/17 B60J10/04 E05F11/38B E05F11/44B P05Y900/550

US class: 49/375 49/421

Classification Explorer

Forward Citations: US5524388, US2481536, DE1172551,

Abstract:
Source: US2236447A 1. A combined retainer and guide structure for a vehicle window panel adapted to be mounted in a window frame for up and down sliding movement, comprising 9. metal channel member adapted to be secured to the lower edge of the panel and having means for connection thereto of a window regulator, and a guide member secured to the bottom of said channel member and projecting in a direction longitudinally of the channel member beyond one end thereof– and adapted to cooperate with a ilxed guide carried by the window frame, said guide member comprising a projecting stud and a spring pressed compression device slidable on the stud ln a direction longltudinally of the channel member and adapted ,to slidingly engage a llxed upright guide on the window frame.

0) US2195862A – WINDSHIELD HEATER

16) Family number: 21212708 (US2195862A) © PatBase

Title:	WINDSHIELD HEATER
Priority:	US19360065797 19360226

Family:

Publication number	Publication date	Application number	Application date
US2195862 A	19400402	US19360065797	19360226

Probable Assignee:	JOSEPH H COHEN
Assignee(s):(std):	JOSEPH H COHEN
Inventor(s):(std):	HENRY JANDA
Inventor(s):	JANDA HENRY
International class (IPC 8–9):	H05B3/84 (Advanced/Invention); H05B3/84 (Core/Invention)
International class (IPC 1–7):	B60J1/02
CPC:	H05B3/84
European class:	H05B3/84
US class:	219/203

Classification Explorer

Forward Citations: US2662154, US2431673,

Abstract:
Source: US2195862A I claim: 1, A windshield heater comprising 3. casing, including a frame having B. pair of opposite straight edges converging so that if extended they would cross at a. point, and having za. pair of S1.!iISt_I1tiE~HY conceutricaliy located arcuate edges of different curvature connected with the straight edges, the converging point of the straight edges virtually coinciding with me common center of curvature of the arcuate edges so that the frame thus defined outlines virtually a segment of an annulus; said casing including also 9. transparent plate of size and shape virtually that of the frame and mounted in said frame; heating means vdthin the casing, comprising an elecwire: supporting means for lotrical hea.i;ing :ating said wire in a virtually arcuate path. including a plurality of iiexible tension stays lioatimgly anchored to the larger arcuate portion of the frame; and means for mounting the casing on sho windshield oi an automobile. 2. The invention as rleiued in claim 1, in which the fxexible stays have relatively lnf\ex1~ Tale insulating slices directly engaging the heat~ :mg Wlre. 3_ A windshield heater comprising ss casing, including a frame having 9. pair of opposite straight edges converging so that if extended they would cross at a point, and having a pair of substantially concentrically located arcuate edges of different curvature connected with the straight edges, the converging point of the straight edges Virtually coinciding with the common uenter of curvature of the arcuate edzes so thlt the frame thus denned outlines virtually s segment of an a.nnu1u.s; mid casing lncludlng also a transparent plate ot' sine and shape virtually that of the frame and mounted in said frame; heating means within the caaing, comprising a plurality of electrical heating wires: supporting means for locating said heating wires in virtually arcuate paths concentrically disposed, said means Including a plurality of tension stays carried by the larger arcuate portion of the frame; and means for mounting the casing on the windshield of an automobile. 4. A windshield heater comprising a casing, including a frame having B. pair of opposite straight edges converging so that 11 extended they would cross at a point, and having a pair of substantially concentrically located arcuate edges of different curvature connected with the straight edges, the converging point of the straight edges virtually coinciding with the common center of curvature of the arcuate edges so that the frame defined thereby outlines vir~ tually a segment of an annulus; said casing including also .1 transparent plate of size and shape virtually that of the frame and mounted in said frame; heating means within the casing; and means for mounting the casing on the –windshield of an automobile, said mounting means including an extension from one oi said stralght lrame sides and a suction cup carried by said extension, said cup being so located that it lies substantially wholly between the vertical limits and also between the horizontal limits of the frame. 5. A windshield heater comprising a casing including a frame having a. pair of opposite straight edges converging so that if extended they would cross at a point, and having an arcuate edge connecting the outermost ends of the straight edges, said casing including also a transparent plate of size and shape virtually that of the frame and mounted in said frame; heating means within the casing; and means for mounting the casing on the windshield oi an automobile including an extension from one of said straight frame sides and a. suction cup carried by said extension, said cup being so located that it lies substantially wholly between the vertical limits and also between the horizontal limits of the frame

0) US2236449A – VENTILATING WINDOW GUIDE

17) Family number: 21501422 (US2236449A) © PatBase

Title:	VENTILATING WINDOW GUIDE
Priority:	US19370175780 19371122

Family:

Publication number	Publication date	Application number	Application date
US2236449 A	19410325	US19370175780	19371122

Probable Assignee:	MARVEL EQUIPMENT CORP
Assignee(s):(std):	MARVEL EQUIPMENT CORP
Inventor(s):(std):	ROETHEL JOHN H
International class (IPC 8–9):	B60J1/17 (Advanced/Invention); B60J1/17 (Core/Invention)
CPC:	B60J1/17
European class:	B60J1/17
US class:	49/144 49/375

Classification Explorer

Forward Citations: US7140776, US7140776, US6125588, US2539539, US2447990, US2005008270,

Abstract:
Source: US2236449A 1. In a window structureiof the»`typé`havlhg a window opening, ' _a ` window 'well' '_tlierebe1uw,`T af plvoted wlng ,type panel and avertlcally slidable' maln –transparent panel cooperable to élosegséiitl ' opening, said main–panel h`aving"a bal“secure'd–` to'{ts upright edge adjacent 'the”pivoted_gt;'p1inel and provided with a depending eirtensloifwlthiii the well: a pair of uprlght`gixl'dé'm`embers ada,i§t'iJ ed to be mounted ln sald' well, eai:h'lylng but‘of‘ the path of travel ofonefuprlsht edge"¢'df the main panel beyond said edge, a bracketfadaptédf to be sedured ‘to thelower edgeof 'themain –panel and havlng a" gulde“device‘ extending longitddl–iv for engagement and 'travelalongwlth one of said guide members, a bracket adapted secured to the lower edge of the `maln_panel' »;g\nae_lt;01;56¢;» site end thereof. and having a guide_devicé‘ exa tending longitudinally ol' thepanel 'and'cooperable with the other guide member for travel along thesame. ` V 7” _ 2, In a window structure of the type havlriga window opening, a window– wellss therébelow, 'a plvoted wing type panel and a–vertlcally slidable main transparent panelicooperable to close said opening, saldmaln' panel having al bar "secured to its upr1ght"edge'a'djacent` thefplvoted"panel` and provided with 'a– depending 'extension'w1thirr the' well; an upright– guide member adapted –td be) mountedln said well and arranged forwardly of said depending enitenslon, a–‘guide device adaptedto be carried bythe lower edge of theinjlaln panel and extendingdxcross and– below– said; extension' for cooperation“wlth'and 'travelalhngf said 'guide' member, a ilxedchannel member fwlthin said well" carrying said guide nlemberk and–a" detabhable lnsert ‘member carried by said bhanne1'niernbei\ and cooper–able with said bar 1i1'all"i[qd§ltiohs thereof for gu1dingly`5upportlng`th€ Same. _, p 3; In a window `structure~oi the"type'jiavirQg it window opening, 'a window Well 'ttierebelowfa' plvbted wing type parlél1§and'afvertlcally slidable main transparent pa'né{'cooperable7 to close said opening, said main panel having _a bnr secured to its upright edge, 8.d]S§C€l‘lf the~plvotod panel v nally of the panel below salddepexldlng extension" ‘ ‘ , f; 'L ,md \!Y1ss=|1»! d¢P9nQiP¢ » degrees ¥?_gt;= degrees 4| degrees degrees Wim" the well5.¢\||¢l¢ !!l degrees !ll£ ,for aqldjmaln ¢l'|»D8Pl»l'Q|1£ new ~s= degrees \=tvr1s1ns ar ¢h+\=1= degrees l !\lP» degrees =¢ Mllvifd bw be ln aid –vvlk H1 NIMHss ¥“1¢ degrees 'm degrees “' degrees _l» lauylne lt; upper end #WM to uid ehmnel xuwngr edhnbrd to be bye f\11d¢ ,deviw 'arfuel br NIH– “lv of meh und. ¢=m'1 degrees d W uid channel and slldlnzlv lenqueableby nld 19 –pu lp all thereafter iuldlnz :ala meln ` Q– II1!!1iAd_lt;»wa¢ruct_\1reQf¢b¢typeh9vln|\ window n mmol veil therebemw. |– _mwm tm new Fld ~ ‘9 v»n¢1,==o degrees w_lt;eb\¢ –w f–ble ssld M B4 UHIIQM– degrees !¢¢ ~U_gt;e P5Y degrees degrees degrees 4 Devel IM Vrlth a »¢|»§BD4“l\| wlt.hm,tne Well: .9 mm |4399–Pd 42 degrees be m degrees \I1\ss¢4 , ' wen an up ht sums havin: lu named. _ . en emo member–191' V _»u»»¢»§e»©~41=».»=m degrees \mwdv1¢hm~u4=h–n– ! ' lil »=mn4prv»¢rvew» ~=f the rm bww Q a window vel! f–herebe–lov. e riveted'–FFF! me ww N14 1 v¢¢W=\l1v llideble Pehmnmuwtmwwwlwewdwmd 9Peelu.se1¢lme1n=Pene1hlvlna».bu–secured Qhmtmmhteusewmmcmemvouennd with l dependlngextenslnn wltlzln §he!eiII!9h5¥!¥|¢|pl|¢el||!P¢€d¥ degrees bemol.lnted H14 Weil. uwlcht wide hlvinl ibn upper teleecoped, _` I lli! phannel Piece and Mad inert 511142 member for illd ulevtrslxo he mounted within wld channel piece, lneert member being notched zpreeelyetlleuppegendolaaidguldemember. Q. A gulde devlce edapted for mounting on a alldlne window panel havin; a support for the wang. wmrnnm n cvunww –md. – sl–eve af ngnfmataillc materlalimounted dn sale stud, a pyllpdrical`meta1 sleeve surrounding laid Brat ` named IICQVQ and alldable thereon, IIIBQDI for lllnltlng movement of Bald metal sleeve ln one dlreptten. and 1 lnrlnl u!l1n|»l!!$| mefallueeve lt; llmlt ot xnnvement ln uid direction, ¢!l4,§l¢¢'/G havin: 'MUN edlntvd tv dldlhrlv engage a gulde member (or guiding Bald window panel. ` 'l. Ina wlndow structure ol the type having a. window opening, a window well therebelowf a plvotéd win: type panel and a vertically .slidable rnaln transparent panel cooperable to close nld DP¢!1!l\¢._la–ld main panel havlnz a bar

secured 'tp its upright ed|e adjaicentthe pivoted panel and provided with a depending extension wlthln the well; an' uprlzht guide member adapted ta be mougted` In sald well and– unused out of the _mth gl Qljpvél of the adlaeent uprlzht, edle of ge mein navel– ll bracket edapkd in be wwrfd tg tlwlovzer _edge gl' the maln Plllél andliavlnl e guldg device extendlnp. in a ,dlrectlon longle tudlnally of the penel below eald depending enM_tensln;r'£Qr engagement with and travel alonz :Qld kulde znernber, nidgulde device eompnalnz a aprt!!! pressed element yleldable bodily ln a lonzltudlpal dlrectlqn. _ ' l. In a window structure of the type having a. window openlnl, e window well therehelow, a plvnss»64 Fl!!! type Pllwl a verugally slidable mln 9r!ss!lx_gt;nx'en¢ nanel wnnernhle to close #lid qpenlnz;ea.ld‘ mgtn panel havin; e bar secured to lt: upright 'edge adjacent the pivqted panel and provided with a delmldilll' extension within Q! so ss Q0 T! –we wen; an wisina name enema mme ‘lo be ,muuntea in –said well and IITIIIIBQ out of the parm: trevelil the schema unrlehtedn nl the panel, fa 'member §dlPM.–“icbl $111110 the lower edgeifpt ~tlxe,ma|n panel. –a Eguldeduvloe by aaldjinember at ,md thereof a!~ tendlnz lh a –dlzedmm of ruepanel below said d8#lld1D(ss¢X|»¢hll0l1 and engageeme with spaced substantially paralld edges ol aald channel fontravel therealung ln a path apacad from the 'base ofthe channel. D. In a window structure ,ol the type havinla wlndow 9D§ll.Q‘)],1.l window Itll thenhelnw, a plvoted wing type panelyand a vertically alldahle main ,tranapareng panel coupenbleto clone and openlng. uid panel having a bar eecurad to lt; _\lPl1||lt ldlaoenc the pivotal panel .na ,pmmeaf gsm e aepenazng exxemmn wlthln the well: an upright guide channel adapted to be mounted ln aa.ldl_awell and arranged out ol the path o! travel ot the adjacent upright edze of the lnaln panel, ailnember !–\ial_gt;1»¢d to be aecured to the lower .edge of, the main panel, a. lulde devloe carried by :alll–melnher at one end thereof exe tending ln a diregtlon lonlltudlnally of the panel below, said depending extenuon and enzlceable with :paced pubetanblally parallel edzes of aald channel for travel Ch€|'¥10lll ln g path spaced from the base of the channel, aaldlulde device conaprlalng a c¢;u;preulm»e1emen¢ ‘bodily yieldable ln a longltudlnal direction. IQ. In a windqyr structure of the type havin: a window opening, a window well therebelow, a plvoted win(type panel and a vertically dldable main tranapu–ent panel oooperable to cloae aald Onenlns, said _mam panel having a bar secured to lts uprllht edge,adJacent the plvoted panel and provided with n _depending extension within the well; an upright zulde member adapted to be mounted ,ln aald welland ,arranged out of the path of travel ofthe uuacent UDUIM edge of the main panel,_a bracket adapted to be aecund to the lower edge of the ma.ln panel and harl.n| a lulde device, extendlnj ln a dlredlou lnnllhldlnally ol the below uid depending exten– :lon for enzagggnent–with and travel along aald zulde member, Bhd a aecond lU–lde arranged above said xulded device ln all poaltlona thereof and adapted t»o,_be QHIUICQ D! aald bar durlilu the up and' downzrnovement ol the main pane . lll. In a window structure 'ol' the type having a window opening, a window well therebelow, a` plvoted wlnlftyve Panel and a vertically llldable main transparent panel cooperable to close and opening, .sald main Dl!1¢| having a bar secured to its uprltht edge adjacent the plvoted panel and provided witnafdependlug Blk–|l“_ 11%–lzln the well; an uptight guide channel adapted to be mounted ln sszid ielland arranged out of the path of travel of the adjacent upright edge of the main panel; a member adapted to he secured to the lower ed|e of the main panel, a lulde device carried by eald member at one end thereof extending ln 'e directlon lonkltudlnally of the panel below seld depending extension and en~ gageable with spaced luhatantladly parallel Bill!! of sald channel for travel therea.lon| in a path' spaced from the base of the channel, and a aecond guide arranged above .sald guide device in all poaltlone thereof and adapted to be enmaged by said bar during’the un and down movanent of the main panel. 12, In a window structure of the type having a window opening, a wlndow well therebelow, |. plvoted wing type panel and a vertlcally slldahle main transparent panel cooperable to close lald l0 ,ll D ll W ll ll U ll _ _gt; _ Q " :2;v238,i44D _ Q ssFW opening, said main ptmelgl–raving aibgf secureaztof itsuprlghtledge adjacent fthesplvoted panel sandprovided with a depending§extenslon`~nv1th1n`~the well; ,a pair of'uprlght guide membersfadapted to be mounted in said sswell 'in ipositlons normally free of engagement by the~11prigl1t~ed'ges of–fthe main–panel, a. guide –device adapted to be–secured to thelower edge –of th€–U1Bil');P8ll')B1`8Jt»'QYl€`€!ld thereof extending in a ~dlrectlon`“lbng1tud1nn.lly of the panel below said depending extension for engagement with and travel along one ot,–said Kuide members, and a– guide: device 's.daDted`–.to _be secured to the 'lower 'edge of 'fthe _main ,panel at the opposite end 'thereof for .engagement iwith and travel/along the otherlg–uide,member}~§t‘¢1ea–st one of 'said :guide devices comprisln§,=`a.'1spring pressed element yieldable 'bodily –in‘ a, longitudinal direction. » _ _ . L 2 13. In a window –structure df the:–type having a window opening, a windowwell–therebelow, 'a pivoted wing type `DB1'l81. and a. vertically–slidable main transparent jpenel'cooperable_–to close– said opening,.saidanmln panelhavins 9~ 51211 seduredvto its upright edge –adjacent the plvoted–panelrand provided with a dependlng~extensi¢gn_with1n the well; ‘a pair of uprightguldemembexh–adapted to be mounted in 'said –well ,ln pqsitions ‘–normally free of,engagement_by the upright egges ofthe main ps,nel,~a guide device_gt;n.dal_gt;ted;tq,be‘secured to the lower edge ofthe rnaln _–panel at ‘one=end thereof extending in–a–directionilongltudlnally of the panel below said depending ex–tension forfengagement with and ;trave1=a,long one of_sa.lde=guide members, and a guide. device =adapted_to 'be secured tothe lower edge–_of the –mein xianel at the opposite lend 'thereof for engagement. wlth_s.nd travel along the other guldelmember, at‘lea.st'one of said guide devices –being springpressed 'and yleldable bodily– ln–a–longitudinalgdirectlon. _ 14. In a window struct11re~of–thewtype hs.ving~s. window –opening. vu.–.window well ' tnerebelew, fa pivot–ed wingdzype panel anda vertlcallysllldable main. ltransparent –panel »c0¢_gt;p¢rab1e IQ! cl0se_gt;.»sa1d openingpsaid mainss panel having; baxisemuzed' to its upright edgelfadjacent the pivdted,panel~and provided with a depending extenslonwithln the well; a pair of uDriKht,suide,members adapted' to be mounted in said Wel1~lnjpUsit1brls,n0rmal1y free otlenslagementrhy the upright 'edges ,of the main panel, a guide device adapted tprbe–secured to the lower edge ,of the main panel at one end thereof extending in _a 'direction 'longitudinally of the panel below said depending extensionfor engagement with and travel along one –of said guide memberspand a;gL1.ide device adapted to be secured to the lower 'edgeiof the main ,panel at the opposite end thereof for engagement with and travel along 'che'otl1er_~gulde member, at least one–guide member comprising aehannel having spaéed substantially parallel ssedges upon which the adjacent– guide device is _adapted to travel in a 'path spaced 'frdm the base ofthe channel. ‘ '– , ‘ _ ' 15. A guide ssadapted to 'be mounted within 9. ,window well for guiding an up and down sliding window panel, 'comprislngailalr of metal channels of unequal lengths adapted to bearranged one to –extend –above the other substantially `in line, the side flanges of ssone channel sbelng of

greater depth than the side Hanges of the other to receive and guide one upright edge ~of the panel, and the ,side flanges of the charmel of lesser depth terminating in spaced parallel edges upon which a guide 'devlceon the window panel is adapted to travel. f A 16. A guide adapted to be mounted within a –window 'well ifurlguldinmani–up ~aud~dov1n`~slld1ng window panel. ceimprlslng f a ;})8il‘~'0f Jnetal 1 chau– :nels 'br “uneciual ,lengths indakited ;to»_gt;be estranged one 'to , extend "–' B have tthe ether ,substantlallydn line, 'the"slde :Ranges of One channel lbeinglldf greater de1ith='than'tI'|e' side gflanges of ‘ the "ether to lrecelve~and1guide_ one uprlght‘edgesbl=1tHe¢1_gt;hn~ el. and 'the ~fside fflanges 'tif fthe I channel 4 of :lesser depth fterniinatingz in #spaced parallel fedges degrees upon which a 'guidevdevice onthe window .panel"‘1s adapted to Y:–travels and a :spring –_pressed ggilidc device .adapted tn ssbe :secured ftoss the ‘lowehedge ol' the ' ~ panel rat eneiielid' fthereoi rand 'arranged to trravelupon–=said.‘egiges._ I ` _ 117. Nl guide adapted' do vmounnen sswithin–fl. 'window »well ftor pguidlng ,lin 'up :and §|1,_–1– ing €window_ fpanel, .'cornprlslng'%a 'pair fof :Chennelsfone teleschped ‘into fthesend diss thefbtherllhd Qhaving “spaced –side fflanges'–iterrninatlng fin gpm'– sn =a11e1»fedges'.'up_lt;m –:Whibh at –guide ~uev1¢¢~ 'on mheéiu –window panel ,is adalfitéd ¢to travel, :abd 1| “detaehable ‘insert J channel mlece ,–mountablewvithin' the said other channel Land , arrangedfto nfeeelve and guidelthe. edja¢ént:upright~eds‘e. ofathejmnel. »1s. In 'ra .window 'structure Qofllthe Q cypemirinz a window = opening, 'yauwiridbw lwéll gthereliélow, Q–|.' pivnted –winsetsrpe mpanel Land: sl–tvertically ~§1ldxl$l€ transparent ; panel coopenrble –to `elqse`1aaldt opening; ,guide means :adapted to –be ssméuhted fin =Said'f ‘ wen ffor , guiding fthe kupfignn 'edge 'ex ,themxergng Pal1el,',whlch _ls fadJaeent`fthe_;`D1voted fpnnel, :into and lout: of _'the fwellxcomprlsingea. relatively–shdrt fixed cha,nne1I=guide¢»at:;the ‘upper ;parz,bf;the well .through which,–'said ledge 1 of ~the;;pa.ne.l ,slides and »an .adjacent –relatively ‘long upright ,guide movably receiving "a–jprojeetion ron qtheabdttounf of the "panel, said Kllide 'means #bel–ng snpermbledio guidingly–support' said –‘sliding mpanel at –separate points fln '–substant1ally`»‘the /sarhe vertical gland Increasingly spaced me "'~ v ertlca1~directlon?as the panel ' is ‘ lqwered “intb the well; said :guides gfacing ln substantiallylthe ‘séLme'fdlrec,tlbn. _ ‘ ‘ 19. ‘In V a 'window strueture _lt;6f fthe ;type`=ha\ilng a window sopenlng, –a »window'~well‘_lt;thé.rehelow, 1 'DWDY/ed Wing–tYD9:_gt;PB1!¢112_nd fa vertically 1–slidable transparent panel cOnpel1ab]e"to` close. said– brenllng: ' guide means fadapted ~ tdi be » mounted :“1n» said well for ssguiding ~the~ forward upright edge éfithe sliding penelinto;and`»ont–or the welhcornprlsing a flxed 'guide ‘at the uppexwend ofthe "well with which the said edge rot the slldlngjmnel slidingly 'cooperates and 'afsecond ~nxed~¢u1de mnvably engaged 'by a DfO_i€¢ti0l'.\f.0l'L the.lower terminating adjacent the ldwerledgepf the"9v!ridow –opening »and_jloeated`s\rbstantially =in Tlline with the'1i!1e df junctrurenf si.idQpanels`;1l.nd slild secDnd~‘na.I1ied lguide also1'termln8t1nB_"‘below fthe windowfovenlng –and =beybnd fthe Q ‘forward 3f8d§Q of “the »slidlng_,psnel; sssaidss Euidest extending jsub–' –»stantiii1ly‘end‘tofend but out offvertlealmxignment. ` ` –_ ` ~20. 2In`~a. :windowstructure 'oi the _type _having –a window openingfaa. window"wel1 therebel6w,,a _pivotednvlixg–type paneland a vertically–slidabless .transparent 2pane1 –coopera:ble"to \ closelsa1d» ripenlng; –guide–means 'adapted to be mounted lntsald well 'for _guiding –ssthe "forward upright edge 1 of the sliding panel 'into and–out of the we11,~enm– 'prlslng a fixed guide at theuplrer end ssofthe wellwith which the saidedge of the sliding panel slidlngly cooperates and aa second fixed »,g1_\lde movably engaged–by a. projectionfon 'the lower edge of the sliding panel, said~l'l–rstfnamed–guide terminatlngadjacent the loweredge of the win– “so edge 01 the sliding panel,,Sald llrst named?'¥ulde.“ “IS 00 in T0 'll 8 2,33 e,4–19' dow opening and located substantially in line with the lineof juncture of said panels and said second named guide also terminating below the window opening and beyond the forwardyedge of the sliding panel, said guides being positioned out of vertical alignment and the–upper end of the second named guide being connected to the lower end of the tlrst named gulde.– ` 21. In a window structure of the type having a window opening, a window well therebelow, a pivoted wing–type panel at the forward part of the window opening and a substantially vertically slidable transparent panel in rear thereof; gnldemeans adapted to be moimted entirely within the well for guiding the forward edge 'of .the sliding panel comprising short and long guides with which the forward edge and a device onthe forward bottom edge –of the sliding panel, respectively, cooperate, the long guide being disposed forwardly of the short guide and beyond the forward edge of the sliding Panel., 22. In a window structure of the type having a window opening, I. window well therebelow, va pivoted wing–type panel at the forward part of the window opening and av substantially vertically slidable transparent panel in rear thereot; guide meansss adapted to be mounted entirely within the well for Sllldlnl the forward edge or the ,sliding panell comprising short and long guides with whlchthe forward edge and a'devlce on the forward bottom edgeol' the sliding panel, respectively, cooperate, the long guide being disposed forwardly o! the –short guide and said device being arranged to extend across the lower end of the short guide into engagement with the long guide when the panel is in raised D0sitlon. – ‘ ' ' ~ – 23. In s window structure ot the type having a window opening; a window well therebelow, a pivoted wing–type panel at the forward part of the window opening and a substantially verticallyslidahle transparent panel in rear thereof ; guide means adapted to be mounted within the well for guiding the forward edge of the sliding panel, comprlsinga relatively short guide_termlnatingf adjacent the lower edge of the window opening and through which said forward edge of the panel slides, a relatively long guide extending below the snort guide well down into the well, _and a device carried by the sliding panel extending across the lower end ofthe short guide and slidingly engaging the long guide, said guides being secured in fixed positions ln longitudinally offset relation. 24. In a window structure of the type having a window opening, a window well –therebelow, a pivoted wing–type panel and a vertically slidable transparent panel cooperable to close said opening; 'guldefmeans adapted to be mounted in said well for guiding the upright edge ot the sliding panel, which' is adjacent theplvoted panel. into and outof– the well, comprising a relatively short tixed channel guide at the upper part of the well through which said edge of the panel slides and an adjacent relatively long upright guide movably receiving a projection on the bottom of the panel, said guide means being operable to guldlngly support said sliding panelat separate points increasingly spaced in a vertical direction as the panel is lowered into the well, _' 25. In a window structure of the type having a window opening, a window well therebelow, a pivoted wlng~type panel and a vertically slidable transparent panel cooperable to close said open~ ins; guide means adapted to be mounted in said well for guiding the forward uptight edge ol' the sliding panel into and out ol' the well, comprising s. fixed guide at the upper end of the well with which the said edge of the sliding panel slldingly cooperates and a ' second ~nxed guide movably engaged

byfa projection onthe lower edge of the 'sliding panel,`sald msn named guide tel–mlmuna at the loweredge ol' the window opening and located substantially in line with the line of juncture ofsald panels and said second named guide also terminating below the window opening and adjacent the forward edge ot the sliding panel. , , ~ 26. In a window structure of the type having a wlndow opening, |. wlndow\well therebelow, a plvoted wing–type panel and a vertically slidable transparent panel oooperable .to close said openlng; guide means adapted to be mounted in sold well for guiding the forward upright edge oi' the sliding panel into and out of the well, comprlslns a fixed guide at the upper .end of the well with which the said edge of the sliding panel slldingly cooperates and s second nxed guide movably engaged by, a projection on the lower edge of the sliding panel, said first named guide terminating at the lower edge of the window opening and located substantially ln line with the line ol juncture of said panels and said second' named guide also terminating below the window opening and adjacent the forward edge ol the sliding panel and being materially longer than the ilrst named guide. _ 27. In a window structure of the type having a window opening, a window well therebelow, a plvoted wing–type panel and a vertically slidable transparent panel cooperable to close said opening; guide means adapted to be mounted in said well for guiding the forward upright edge –of the sliding panel into and out of the well; comprising a nxed guide. at the upper end of the well with which the said edge of the sliding panel slldingly cooperates and a second fixed guide movnbly Bllllled by a projection on the lower edge of the slldlnl panel. said tlrst named guide terminating at the lower edge of the window openingand located substantially in line with the line ot juncture of said panels and said second named guide also terminating below the window opening 'and adjacent the forward edge of the sliding panel, said guides being secured together and forming a compound guide for the forward edge of the sliding panel rearward of the pivoted panel. ' 28. In a window structure of the type having a window opening, s window welltherebelow. a pivoted wing–type panel at the forward part of the window opening and a substantially vertically slidable transparent panel ln rear thereof provided with a metal bar on its forward upright edge overlapping the adjacent edge of the plvoted panel; guide means adapted to be mounted substantially entirely within the well below the forward portion of the sliding glass panel comprising a relatively short guide channel slldingly receiving said bar in allpositions thereof and a relatively long guide movably receiving a device on the sliding panel, said guides being operable to guldingly support said sliding panel at separate points increasingly spaced in a vertical direction as the panel is lowered into the well. 29. In a windowstructure having a window frame provided with a window well, a pivoted wing–type panel and a vertically slidable transparent panel cooperable to close a window opening in said frame when the slidable panel is raised; a. flxed upright guide adapted to be mounted entirely in said well below the wingtype panel and longitudinally beyond the slidable panel, a channel bar adapted to engage the forward uprlght edge of the slidable panel, a retainer strip adapted to be secured to the lower edge of the slidable panel, a bracket secured to the retainer strip at one end thereof, and a guide ,Z device carried by the bracket below the panel extending longitudinally beyond the lower end of said chgnnel bar and movably engaging said guide; said guide device being spring pressed in a longitudinal direction to constantly engage said guide and compensate for slight dlsplacemems oz' the slidable panel longitudinally in ins plane

0) US2248319A – METAL BODY FOR MOTOR VEHICLES

18) Family number: 20576304 (US2248319A) © PatBase

Title: METAL BODY FOR MOTOR VEHICLES

Priority: US19390262605 19390318

Family:

Publication number	Publication date	Application number	Application date
GB540566 A	19411022	GB19400004435	19400309
US2248319 A	19410708	US19390262605	19390318

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std): GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std): WATERHOUSE JR CHARLES L

Inventor(s): JR CHARLES L WATERHOUSE

International class (IPC 8–9): B62D23/00 (Advanced/Invention); B62D23/00 (Core/Invention)

International class (IPC 1–7): B60J5/00 B62D23/00 B62D25/02 B62D25/08 B62D25/20

CPC: B62D23/00

European class: B62D23/00

US class: 296/202 296/203.01

Classification Explorer

Forward Citations: US8336951, US7472948, US5205587, US5096254, US5080427, US4615558, US4552400, US4401341, US2827327, US2817557, US2716040, US2705660, US2693982, US2678231, US2669462, US2662793, US2588643, US2576354, US2563221, US2539050, US2532203, US2488471, US2011156438, US2006066137, DE976990, DE976896, DE976568, DE967939, DE949025, DE1075958,

Abstract:
Source: GB540566A [Classes 103 (ii) and 108 (i)] [Also in Group XXXI] A metal vehicle body construction of the type in which there is no separate chassis frame comprises (1) a front underframe, Fig. 29, which carries the engine and extends over the front wheels, (2) a main understructure or underpan, Fig. 25, resiliently connected at its front end to the rear end of the front frame which is connected also to the front pillars 108 by a pair of braces 56, (3) front, centre and rear pillars secured to the main understructure, (4) lower rear panels 16 forming also wheel housings secured to the main understructure and to the rear pillars, (5) an upper part comprising in one piece, the side windshield parts 6, the scuttle or cowl top 8, the roof 4 and the rear quarters 10, and (6) a transverse reinforcing frame and instrument panel 126 which extends between the tops of the front pillars at the belt line and is secured to the windshield parts 6 and to the front end of the roof. The front frame comprises on each side a pair of channel members 24, Fig. 29, forked at the rear part which is secured to the transverse member 30. A transverse member which serves as an engine mounting comprises a pair of members 34, 36 united at the middle part 38 and forked at each end. This frame is resiliently connected to the side sills 82 of the main understructure or underpan by a cup 76, Fig. 5, bolted at 80 to the sill 82, a rubber spool 74 being disposed between the cup and the edge of an. aperture 68 in the member 24. A pair of tubular braces 56 extend from brackets 44 on the front frame to the members 110, Figs. 4, 8 of the box–section front pillars. The flanged end of the bracket 44 is disposed between a pair of rubber washers 50, Fig. 2, bolted to the end of the brace 56. Each front pillar comprises a channel member 108, Figs. 4, 8, secured at the part 109 to the side sill 82 and closed by a strip 110. A transverse frame includes as a single pressing lower parts 124 which fit over the reduced end 122 of the pillar members 108, side members 128 that are welded to the windscreen side parts 6 and an upper transverse part 130 shaped as in Figs. 7, 8 and welded to the front part of the roof 4, the upper edge being formed with tongues for this purpose. A filler strip 120, Figs. 8, 11 is welded to the part 128 and to the top part 116 of the pillar part 110. The bracket 136, Figs. 4, 8 which reinforces the pillar at the point of connection of the brace 56 serves also to carry a door hinge. The part 134, Fig. 8 forms an inner filler part for the part 124. The sides 12 of the bonnet or cowl are welded to the front frame members 24, to the scuttle or top 8 and to the front pillars and is shouldered t 94 where it is attached to the front fender. A front panel secured to the front edge 176 of the scuttle 8 and to ledges 98 on the sides 12 extends, vertically downwards at its upper part and inclines rearwardly at its lower part to provide the foot board. The centre pillar 14 is of box section comprising a channel member and a closing strip bridging the inwardly directed edges of the channel. It is welded at its flanged and flared ends to the sill 82 of the underpan at 450, Fig. 25 and to the upper side rail which comprises a reinforcing strip,194, Fig. 15 formed at' one edge with tongues 198 welded to the inside of the roof 4 the other edge 216 being welded to the

roof edge where a drip channel 214 is formed. The strip 194 is shaped as shown to receive the top edge face of the door. The rear quarter panel 10 has a flanged edge 218, Fig. 17 for welding to the upper flanged edge of the side panels 16 the lower edge of which is secured to the edge 252, Fig. 25 of the underpan. The panels 16 are pressed inwardly at the lower part 232 to form a rear wheel housing forming a shoulder at 237 to which the rear fender is attached. The wheel housing part 254 extends over the rear end of the sill 82 of the underpan to which and to the transverse rear seat support 318, Figs. 17, 25 it is welded. A pair of rear seat back supporting plates 238, Fig. 23 extend one at each side from the upper edge of each panel 16 to the underpan and are welded along one edge to the panel, A tray 224, Fig. 17, is supported on the upper flanged edges 220 of the panels 16 and is flanged at 242 over the plates 238 and a back supporting ribs 241 which are secured at the lower end to the channelled part 248 of the underpan. The tray 224 has an extension 226 and with, the panels 16 the seat back and the underpan forms a luggage compartment provided with a door 230. The rear door pillar at the lower curved part is formed by bending over the edge 256, Fig. 16, of the wheel housing part 232 of the panel 16, to channel section and closing this channel by a strip 260. The short upright part of the pillar is formed by the marginal part of the panel 16 which is bent as at 290, Fig. 23, and by bent plates 268, 274, the plate 274 having a rear extension welded to the seat back supporting plate 238. The parts 268, 274 are continued upwardly a short distance above the belt line, as shown in Fig. 24, to meet a downwardly inclined extension 286 of the member 194, Fig. 15, of the upper rail, a part of this member being continued further downwardly to meet the bent edge 290 of the panel 16 at the belt line. The underpan is in two sections each comprising a floor plate 18a, 18b, Figs. 25, 34. The rear floor 18a is formed with a channel 248 for the rear axle. A curved back plate 342 extending the width of the vehicle is secured to the floor 18a at the upper part and at its lower inwardly curved edge 356 to an inner transverse plate 352 which is secured at its upper part also to the plate 18a, the plates 342, 352 thus providing a rear member of box–section. Brackets 358 serve for the attachment of the rear springs. An opening 334 is provided for a petrol tank. The front floor 18b is welded at a lower level to a vertical flange 326 at the front edge of the rear floor and has welded to it a transverse rear, seat support 318. Braces 384, 388 extend from the floor 18a to the upper edge of the support'318 and to the floor 18b respectively. The floor 18b is reinforced underneath by a number of longitudinal channel members welded to it the ends of the two outer ones being also welded to the flange 326 and to these outer ones are secured brackets for. the attachment of the rear springs. Transverse braces 406, 404, Figs. 32, 33 are welded to the upper and lower faces of the floor 18b respectively. These taper as shown towards their ends. The side sills 82–' are formed by bending the edge part of the floor as at 416, 418, Fig. 33 and by vertical and horizontal plates 422, 426. An imitation running board 430 may be added. Rails 412 for the rollers of an adjustable front seat are secured to the floor. The rear wheel housing 232 is welded to the edges 378, 380 and to the end of the sill 82. The fron flange 444 forms the lower part of the foot board. The Specification as open to inspection under Sect. 91 comprises also the following:–The.doors which are all of the same construction though of differing contour, each comprise inner and outer panels, 454, 452, Figs. 39, 41 cancelled, and a rib. 468 the limbs 482, 484 of which are welded respectively to one edge face of the door and to a channel 483 spaced from the other edge face 456. The channel 483 serves as a hinge mounting. The rib 468 is formed with channels 478, 474 for the window and a weather strip respectively. At the upper part of the rib the part 456 is bent over into the plane of the door for abutting on the body framing. This subject–matter does not appear in the Specification as accepted.

0) GB591003A – IMPROVEMENTS IN OR RELATING TO WINDOWS FOR AUTO...

19) Family number: 20266392 (GB591003A) © PatBase

Title: Improvements in or relating to windows for automobiles and the like

Family:

Publication number	Publication date	Application number	Application date
GB591003 A	19470805	GB19440025650	19441221

Probable Assignee: HAROLD AUSTIN KING

Assignee(s):(std)**:** HAROLD AUSTIN KING

International class (IPC 8–9)**:** B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7)**:** B60J1/20

CPC: B60J1/14

European class: B60J1/14

Classification Explorer

Abstract:
Source: GB591003A 25650. Convention date, Jan. 21. [Class 20 (iii)] [Also in Group XXXII] A rain–deflecting shield 44 for use with vertically pivoted windows 28 of a vehicle comprises an elongated half–dished rubber or like member which is adapted to be secured so as to be in wiping engagement with the forward base part of the window when it is opened. As shown, as applied to the front door of a motor vehicle, the window is in two parts, the rear portion, not shown, slides vertically and the front portion 28 pivots about a vertical axis 40, Fig. 2, and has a curved forward edge which opens inwardly of the vehicle. The shield 44 conforms to the shape of the curved edge and is provided with a thin bounding edge 50 sufficiently flexible for the bottom edge of the window to pass over and is secured to the inner moulding 38 of the door by screws 46 or rubber studs which pass through holes in the moulding. The shield may be formed integral with the window sealing means and in a modification, Fig. 11, the shield 44b may be formed integral with the moulding 38b, the bounding edge of the shield being provided with a thin rubber strip 50b over which a flexible wiper 80 on the window may pass. Drain holes 60b in the window seal and a corresponding hole 62b in the door may be provided.

0) US2446141A – SWITCH STRUCTURE

20) Family number: 21744118 (US2446141A) © PatBase

Title: SWITCH STRUCTURE

Priority: US19440543363 19440703 US19450577877 19450214

Family:

Publication number	Publication date	Application number	Application date
DE809018 A	19510723	DE19500000974	19500317
US2425391 A	19470812	US19440543363	19440703
US2446141 A	19480727	US19450577877	19450214

Probable Assignee: JOHN BANTA PARSONS

Assignee(s):(std)**:** JOHN BANTA PARSONS ; PARSONS JOHN B

Inventor(s):(std)**:** PARSONS JOHN B ; PARSONS JOHN BANTA

International class (IPC 8–9)**:** E05F15/08 H01H23/08 H02B1/048 (Advanced/Invention); E05F15/00 H01H23/00 H02B1/015 (Core/Invention)

International class (IPC 1–7)**:** B60J1/17 B60K23/00 E05F15/08

CPC: Y10S60/911 E05F15/57 E05Y2900/50 Y10T24/44017 Y10T24/44906 H02B1/048 E05Y2900/55 H01H23/08 Y10T292/088

European class: E05F15/08C H01H23/08 H02B1/048 P05Y900/550

US class: 180/313 200/295 200/303 200/6.00R 200/6R 220/3.8 220/3.94 220/326 24/457 24/561 248/27.1 280/848 292/76 296/117 49/24 60/434 60/911 91/453 91/527

Classification Explorer

Cited documents: US389297 A, US2374993 A, US2369480 A, US2332299 A, US2311864 A, US2301576 A, US2298542 A, US2200047 A, US2190295 A, US2145533 A, US2137652 A, US2093201 A, US2061530 A, US2058530 A, US2008068 A, US1999194 A, US1975278 A, US1964535 A, US1911911 A, US1731254 A, US1662422 A, US1570304 A, US1076051 A,

Forward Citations: US6971910, US4684158, US4609119, US4505010, US4459443, US4270371, US4211905, US3793831, US3708640, US3649796, US3609268, US3453408, US3337708, US3329785, US3273104, US3222467, US3213189, US3091679, US3044823, US3014344, US2959009, US2934590, US2851325, US2823272, US2729444, US2703662, US2696981, US2696403, US2680017, US2667380, US2666941, US2641743, US2627359, US2626503, US2625616, US2621037, US2598233, US2592180, US2585587, US2551499, US2523059, US2008311800, US2004175988, JP48064749, DE4207924, DE2954670, DE1281870, DE10335088,

Abstract:
Source: US2446141A 1. A switch assembly comprising a. casing having a Pair of telescoping members, one member nttlng over the other member and having a central aperture, an operating arm extending through said aperture and having portions inside and outside the casing, the portion inside the casing having e transverse hole, the inner casing member having aligned apertures in opposite side walls thereof, al pin extending through said aligned apertures and through the hole in said operating arm thereby to provide a pivotal mounting therefor, the outer ends of said pin being substantially Hush with the outer walls of the inner casing member and concealed and retained in place by the adjacent Walls of the outer casing member, and means for holdinglsaid casing members together in assembled relation.

0) US2507287A – VENTILATOR DRIP SHIELD

21) Family number: 21642439 (US2507287A) © PatBase

Title: VENTILATOR DRIP SHIELD

Priority: US19490089647 19490426

Family:

Publication number	Publication date	Application number	Application date
US2507287 A	19500509	US19490089647	19490426

Probable Assignee: AMELIA WERNER LOUISE

Assignee(s):(std)**:** AMELIA WERNER LOUISE

Inventor(s):(std)**:** AMELIA WERNER LOUISE

Inventor(s): WERNER LOUISE AMELIA

International class (IPC 8–9)**:** B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7)**:** B60J1/14

CPC: B60J1/14

European class: B60J1/14

US class: 296/154 454/134

Classification Explorer

Cited documents: US2486408 A, US2465345 A, US2390260 A, US2060109 A, US1849176 A,

Forward Citations: US2692793, DE1247155,

Abstract:
Source: US2507287A (Claim 1) In a vehicle window for a vehicle having li5 spaced wall portions with a drain to the outside of said vehicle for water collecting between sai–d spaced wall portions, vrhich window comarises a no–draft ventilator having a window–palie Pivotal abolit a generally vertical axi–S inter– OU mediate its ends from a Closed –Dosition in the general plane of the entire wind–ow to an open position with the forward portion thereof extending into the vehicie and a posterior portion thereof extending outside the vehicle, the im– provement which cor–,iprises a rigid drip shield attached to the lower window frame flange for the purpose of separating out water carried by the air stream entering a moving vehicle through said no–draft ventilator, said drip shield com– prising a generally upstanding baffle surface, and means for drainitig water impinging on said baffle surface to the space between said spaced wall portions, said baffle surface being, spaced from the surface generated by the lower forward edges of the pivota win o pane as it is moved from closed to open position and having contours cut by vertical planes through said windo_v of a shade generally correspond;ng to the bottom and forward portion of said pivotal wi–ndowpare, spid up,standing baffle surface exterdiiig 'ilo,,;7ardly 5 along the windox opening substantially to the _upper pivot of the window pane and in a trai,,sverse direction inwordly of said vehicle from the re.–ion of the sealing edge of said pivotal windowpane when said pivotal windowpad–e is in th_– 1,,) closed Position to change the direction of the air stream entering into said vehicle and cause water carried along NviLb it to strike sa,–d baffe surface, the inner ed_.,e of said bafrie 3urface havirig a defl,,cting iip projecti_–ig rearwa–,,–,dly l r) from,,3aid baffle surface.

0) US2511460A – REMOVABLE RIGID TOP FOR CAR BODIES

22) Family number: 21697980 (US2511460A) © PatBase

Title: REMOVABLE RIGID TOP FOR CAR BODIES

Priority: US19470784572 19471107

Family:

Publication number	Publication date	Application number	Application date
US2511460 A	19500613	US19470784572	19471107

Probable Assignee: CANCELLI DANTE E

Assignee(s):(std)**:** CANCELLI DANTE E ; SILVESTRI BRUNO P

Inventor(s):(std)**:** CANCELLI DANTE E ; SILVESTRI BRUNO P

International class (IPC 8–9)**:** B60J7/08 (Advanced/Invention); B60J7/08 (Core/Invention)

International class (IPC 1–7)**:** B60P3/42

CPC: B60J7/106

European class: B60J7/10C

US class: 296/102 296/216.01 296/224

Classification Explorer

Cited documents: US702520 A, US435736 A, US2118520 A, US1778356 A, GB263673 A, GB231307 A,

Forward Citations: US6007146, US5489146, US4595230, US4085844, US3339967, US3227485, US3087753, US3065021, US2798763,

Abstract:
Source: US2511460A (Claim 1) 1. In a motor vehicle of the convertible type, a detachable rigid top adapted to nt on the top edges of the passenger compartment when the original flexible top is in dismantled condition, deformable strip means carried by the bottom edges of said top and adapted to sealingly engage the ton edges of the passenger compartment, interlocking guide means on the bottom edges of said top and on the top edges of said compartment insuring registration of said top with the compartment, front hold–down means for securing' the forward portion of said top to the vehicle, and rear hold–down means carried by the top and extending into the rear trunk compartment of the vehicle, means in the rear trunk compartment projecting toward the extending end of the rear hold–down means and inter–locking with 2,511,460 V the latter, and means interengaging with the last–named means for iixedly securing the latter.

0) US2687327A – MOUNTING FOR WING PANELS OF AUTOMOBILES AND THE...

23) Family number: 22056712 (US2687327A) © PatBase

Title: MOUNTING FOR WING PANELS OF AUTOMOBILES AND THE LIKE

Priority: US19450622032 19451012 US19510228090 19510524

Family:

Publication number	Publication date	Application number	Application date
US2559120 A	19510703	US19450622032	19451012
US2687327 A	19540824	US19510228090	19510524

Probable Assignee: GREENMUN LEO S

Assignee(s):(std)**:** GREENMUN LEO S

Inventor(s):(std)**:** GREENMUN LEO S

International class (IPC 8–9): B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7): B60J1/14 B60J1/17

CPC: B60J1/14 Y10T16/535 Y10T16/541 Y10T74/19953

European class: B60J1/14

US class: 16/254 16/354 49/103 49/13 49/335 49/337 49/463 49/95 74/458

Classification Explorer

Cited documents: US944494 A, US609640 A, US421339 A, US2479833 A, US2448796 A, US2422830 A, US2331260 A, US2292964 A, US2274824 A, US2261482 A, US2201004 A, US2164342 A, US2152055 A, US2145668 A, US2145659 A, US2122963 A, US2108326 A, US2085106 A, US2053854 A, US2034202 A, US1996572 A, US1563391 A, US1412569 A, US1383027 A, US1358249 A, US1153314 A,

Forward Citations: US2746747, US2657924, US2008034544, US2007176464, US2006265958, DE1291222,

Abstract:
Source: US2687327A (Claim 1) 1. An automobile having a window mbunted thereon for pivotal movement, a shaft extending from said window, said shaft having a portion formed as a helical gear, a second shaft having a worm in mesh with said gear, and a crank handle for rotating said last–named shaft, said helical gear being non–movable with respect to said firstnamed shaft, whereby said helical gear is disconnectible from said worm by upward movement of said window.

0) GB660762A – IMPROVEMENTS IN OR RELATING TO DRAUGHT–EXCLUDIN...

24) Family number: 19601783 (GB660762A) © PatBase

Title: IMPROVEMENTS IN OR RELATING TO DRAUGHT–EXCLUDING MEANS FOR DOORS AND WINDOWS AND THE LIKE

Priority: GB19490029207 19491115

Family:

Publication number	Publication date	Application number	Application date
GB660762 A	19511114	GB19490029207	19491115

Probable Assignee: BUDD CO

Assignee(s):(std)**:** BUDD CO

Assignee(s): THE BUDD COMPANY

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B61D19/02 E06B7/23

CPC: B60J10/80

European class: B60J10/08

Classification Explorer

Forward Citations: WO9406993, NL1002942, EP0803392,

Abstract:
Source: GB660762A 660,762. Draught excluders. BUDD, CO. Nov. 15, 1949 [Dec. 9, 1948], No. 29207/49. Class 20(iii) A border member 14 is fixed by screws 19 around the edge of a closure 11 for a door, window, or like opening and is adapted when the member 11 is closed, to engage a frame 12 within the opening so that a resilient and flexible strip of material 16, which is held stretched across a recess 20 defined by the outer edges of the member 14 by means of the screws 19, is pressed inwardly by a projection 15 on the frame 12 when it enters the recess 20 to seal the opening against draughts. Alternatively the member 14 and the strip 16 may be fitted within the opening and a corresponding projection may be formed on the closure. The enclosed space behind the member 16 is ventilated.

0) US2588628A – DOOR SEAL CONSTRUCTION

25) Family number: 22523254 (US2588628A) © PatBase

Title: DOOR SEAL CONSTRUCTION

Priority: US19480026828 19480513

Family:

Publication number	Publication date	Application number	Application date
US2588628 A	19520311	US19480026828	19480513

Probable Assignee: CHRYSLER CORP

Assignee(s):(std)**:** CHRYSLER CORP

Inventor(s):(std)**:** HIGBIE ALAN L ; STAMM CARL A

International class (IPC 8–9): B60J10/00 B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7): B60J5/00

CPC: Y10S220/03 B60J10/80 B60J10/25

European class: B60J10/00D6 B60J10/08

US class: 220/DIG.3 49/475.1 49/490.1

Classification Explorer

Cited documents: US2278646 A, US2219382 A, US2208723 A, US2176964 A, US1991674 A, FR833934 A,

Forward Citations: US6112469, US3155422, US3106310, US3106309, US2826447, US2005023771,

Abstract:
Source: US2588628A (Claim 1) 1. In an automobile body, in combination a door frame member provided with a depressed jamb including an inwardly extending wall portion and a substantially vertically extending exteriorly exposed wall portion, said wall poriions deflning a door jamb recess, a drip molding mountod on said door frame member and p6sitibned within said recess so as to extend along the exterior edge thereof, a door member hingedly mounted on said frame member, said door member including a vertically extending, exteriorly exp(sed, marginal flange portion adapted to be positioned substantially across said receqs when said door is in closed position, and a resilient seal mounted on said drip molding having a s6aling finger arranged beneath said dril_ molding adapted to be moved into sealing engagement with the marginal flange of said door member when said door me,–nber is moved to closed position, the sealing portion of said ge.al being covered by said drip molding wheri the door is in closed position.

0) US2646118A – SNOW SHIELD FOR MOTORCAR WINDSHIELDS

26) Family number: 22223793 (US2646118A) © PatBase

Title: SNOW SHIELD FOR MOTORCAR WINDSHIELDS

Priority: US19520274230 19520229

Family:

Publication number	Publication date	Application number	Application date
US2646118 A	19530721	US19520274230	19520229

Probable Assignee: BERTY WILLIAM J

Assignee(s):(std)**:** BERTY WILLIAM J

Inventor(s):(std)**:** BERTY WILLIAM J

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J11/00

CPC: B60J11/08

European class: B60J11/08

US class: 160/369 160/370.21 296/95.1

Classification Explorer

Cited documents: US2551052 A, US2489901 A, US1920185 A, US1530784 A,

Forward Citations: WO9014241, US8087712, US6769725, US6648396, US6241303, US6135191, US6095230, US5570735, US5490707, US5242205, US5183094, US5014758, US4964667, US4915058, US4903748, US4635993, US4355839, US3964780, US3166116, US2944601, US2870454, US2823746, US2012061041, US2010224040, US2008191509, US2005253411, EP0888919,

Abstract:
Source: US2646118A (Claim 1) 1. A snow shield for windshields comprising a body portion of rpoistureresistant material for overlying aiid covering the windshield and substat–itially conforming to the surface of the wind– shield, a pluralilty of securin,_ n–ieans adjacent the top and end ed.,es each cor_iprising % hand gi–ip on the outer side of the –shield and a suction cup connected to the shield on the i–Tiner side, and a washer under tl–ie hand gri–P liavl'–Tig en iiaturnecl edg–e ioortion engaging the outer surface of said body portion to press its adjacelit edge poi–tioil against the surf_–ce of the windshield to prevent entrance of snow and iiioisture betweeii the body and the v_Tindshield.

0) GB699466A – WINDOW PANEL MOUNTING AND LOCKING MEANS

27) Family number: 20583242 (GB699466A) © PatBase

Title: WINDOW PANEL MOUNTING AND LOCKING MEANS

Priority: GB19510003346 19510212

Family:

Publication number	Publication date	Application number	Application date
GB699466 A	19531111	GB19510003346	19510212

Probable Assignee: WILLYS OVERLAND MOTORS INC

Assignee(s):(std)**:** WILLYS OVERLAND MOTORS INC

International class (IPC 8–9)**:** B60J10/04 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** E06B3/62

CPC: B60J10/74

European class: B60J10/04

Classification Explorer

Forward Citations: US2918706,

Abstract:
Source: GB699466A 699,466. Vehicle windows. WILLYS–. OVERLAND MOTORS. Inc. Feb. 12, 1951 [Feb. 10, 1950], No. 3346/51. Class 20(iii) [Also in Group XXV] A vehicle window comprises horizontal and vertical frame members 30, 31 and 32. a fixed panel 27 positioned by a resilient glazing strip 38, which is partly of channel section, Fig. 3, and partly of the section shown in Fig. 5, and a sliding panel 28 mounted in a felt lined channel strip 55, and sealing in its closed position against a lip 50 of the strip 38, the construction being completed by moulding strips 60 which are secured by screws 63 and 66 to tongues 65 struck out of the frame member 31 and to spaced clips 68 respectively. The strip 38 is provided with metal reinforcements 49 and the lower horizontal portion of the channel strip 55 has a series of spaced holes to allow water collecting therein to run to a trough 74 and a drainpipe 77. A felt draught excluder strip 80, Fig. 5, is secured on the fixed panel 27 in contact with the sliding panel 28 and a locking device 87 mounted on the upper moulding strip 60 and comprising a spring–pressed plunger 94 adapted to engage when the sliding panel is closed in a dishedmember 102 secured to the fixed panel 27 prevents opening of the window from the outside,

0) US2721636A – WINDOW PANEL MOUNTING AND LOCKING MEANS

28) Family number: 22434162 (US2721636A) © PatBase

Title: WINDOW PANEL MOUNTING AND LOCKING MEANS

Priority: US19500143514 19500210

Family:

Publication number	Publication date	Application number	Application date
US2721636 A	19551025	US19500143514	19500210

Probable Assignee: BANK OF AMERICA NAT TRUST AND SAVINGS ASS

Assignee(s):(std)**:** BANK OF AMERICA NAT TRUST AND ; BANK OF AMERICA NAT TRUST AND SAVINGS ASS

Assignee(s): BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIA ; BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION

Inventor(s):(std)**:** ORDORICA MIGUEL A ; PURSELL JOHN E

International class (IPC 8–9)**:** B60J10/02 B60J10/04 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60J1/16

CPC: Y10S292/46 B60J10/74 B60J10/70

European class: B60J10/02 B60J10/04

US class: 292/DIG.46 49/408 49/413 49/449 52/204.51

Classification Explorer

Cited documents: US90092 A, US866073 A, US2494161 A, US2274730 A, US2192519 A, US1636008 A, US1451026 A, GB623957 A, GB580618 A, GB568824 A, GB525916 A, GB482541 A, GB163872 A, FR29858 E,

Forward Citations: USRE41502, US9126474, US8668989, US8322073, US8048529, US5829195, US5809706, US5799449, US5522191, US5209018, US3827184, US3490176, US2004020131, US2003213179,

Abstract:
Source: US2721636A (Claim 1) 1. Window construction and mounting means including a stationary panel arranged to be secured in a window opening and occupy a portion of the window area; a seec)nd panel slidably movable in a direction parallel to said first mentioned panel and occupying the remaining portion of the window area when in closed position; a weather strip formed of yieldable material completely surrounding and defining the window area; said weather strip being formed with a recess to receive and support the stationary panel and form therewith a weather–tight joint; a stationary channel–shaped guiding means coextensively arranged adjacent said weather strip and directly engaging the surfaces of and forming a run for guiding said movable panel; a metal escutcheon surrounding said window opening and coextensively disposed adjacent the movable win– dow guiding means; movable abutment means – nornially projecting into the path of movement of the slidable panel for retaining the latter in closed positioii; said abutment means being supported by and depending from said escutcheon; said abutment means being manually movable 7o to a position out of the path of movement of the slidable panel whereby the latter may be moved to full open or intermediate positions, said abutment means engaging a surface of the slidable panel when the latter is moved from closed position.

0) GB767998A – IMPROVEMENTS RELATING TO PIVOTED VENTILATION WI...

29) Family number: 19627252 (GB767998A) © PatBase

Title: Improvements relating to pivoted ventilation windows of vehicles

Priority: GB19540026362 19540911

Family:

Publication number	Publication date	Application number	Application date
GB767998 A	19570213	GB19540026362	19540911

Probable Assignee: HALLAM SLEIGH AND CHESTON LTD

Assignee(s):(std): HALLAM SLEIGH AND CHESTON LTD

Assignee(s): HALLAM SLEIGH AND CHESTON LIMITED

Inventor(s):(std): EVANS ANTHONY BENBOW ; LITTLEHALES GEORGE LEOPOLD ; POWELL WILLIAM EDWARD

International class (IPC 8–9): B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7): B60J1/14

CPC: B60J1/14

European class: B60J1/14

Classification Explorer

Abstract:
Source: GB767998A 767,998. Vehicle windows. HALLAM, SLEIGH and CHESTON, Ltd. Sept. 12, 1955 [Sept. 11, 1954], No. 26362/54. Class 20(3) A ventilation window 1 for the driving cab of a lorry, or truck, pivoted at points intermediate front and rear edges of the window by means of top and bottom pivot pins 5, 6 has a rubber weather excluding sealing strip, or frame 12, a narrow groove 13 in the outer edge of the frame being engaged by the edge of a body panel 2 bounding the window opening, and the inside edge having a pair of flanges 14, 14a against which a glazing frame 7 engages when the window is closed. The flanges 14, 14a are located respectively toward the inside and outside of the vehicle, the flange 14 extending rearward, and the flange 14a forward, of the pivots 5, 6, and the frame 12 comprising two lengths of reversed sections with their ends joined adjacent the pivots pins 5, 6. The latter engage respectively within bearing sleeves 8, 9 fixed to the glazing frame 7, the pin 5 having a part 24 which is bolted, with a packing member 25, to the outer face 10 of the body panel 2, and the pin 6 being carried by a casing 15 secured by bolts 53 to the inside face 11 of the panel 2. The pin 6, riveted at 26 to the bearing sleeve 9, and to a bushing 9a secured to the frame 7, rotates with the window as the latter is moved. The pivots 5, 6 are slightly inclined to bring them into approximate axial alignment. The window is held in a predetermined angular position by means of a toothed wheel 17 which is fixed to the lower end of the pin 6 and co–operates with teeth 23 on detent plates 19 which are housed in the casing 15 and are urged into contact with the wheel 17 by means of rubber blocks 18. Hand pressure on the window 1 overcomes the resistance afforded by the co–operating teeth so that the teeth 23 ride over the periphery of the wheel 17 while the window is being moved. The casing 15, initially open at the underside to admit the blocks 18 is closed by a cover plate 27. The window can be moved by a handle 30 which is pivoted to the frame 7 and is arranged to engage a striking plate 31 carried on a bracket 32 bolted to the panel 2. In a modified form of detent device the rubber blocks are omitted the toothed wheel 17 being engaged by sheet metal detent units having resilient side arms which urge them into engagement with the wheel 17. In a further modification, the pivot pin 6 carries a boss having concave peripheral notches which engage spring pressed balls contained within tubes fixed inside the casing 15. In the modification, Fig. 8, the toothed wheel 43 is surrounded by a split rubber collar 46 which is itself surrounded by a metal casing 47. The arrangement is fitted to a rail, not shown, which is secured to the panel 2.

0) US2812556A – AUTOMOBILE VENTILATOR WINDOW CONSTRUCTION

30) Family number: 22294986 (US2812556A) © PatBase

Title: AUTOMOBILE VENTILATOR WINDOW CONSTRUCTION

Priority: US19550494183 19550314

Family:

Publication number	Publication date	Application number	Application date
US2812556 A	19571112	US19550494183	19550314

Probable Assignee: MOTOR PRODUCTS CORP

Assignee(s):(std)**:** MOTOR PRODUCTS CORP

Inventor(s):(std)**:** RENNO DONALD G

International class (IPC 8–9)**:** B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7)**:** B60J1/14

CPC: B60J1/14

European class: B60J1/14

US class: 296/144 49/393

Classification Explorer

Cited documents: US2587288 A, US2584653 A, US2518152 A, US2198911 A, US2114538 A,

Forward Citations: US7425032, US2006290168,

Abstract:
Source: US2812556A (Claim 1) 1. A ventilator window assembly comprising a fixed supporting frame having top and bottom bars, a weather strip fixed to and projecting inwardly from said frame, an unframed transparent panel within and movable relative to said fixed frame, all edges of said panel being completely cxposed, one side of said panel adjacent said exposed edges abutting and having overlapping sealing engagement with the inwardly projecting portions of said weather strip; upper and lower substantially aligned pivot pins for said panel located in ofiset relation to the opposite side of said panel, a supporting bracket for the lower pivot pin located below and fixed to the bottom bar of said fixed frame, thc upper pivot pin having a substantially L–shaped arm, the horizontal portion of said arm extending over and being secured to the top bar of said tlxed frame, said lower pivot pin extending upwardly through the bottom bar of said Exed frame and extending upwardly through the bottom bar of said fixed frame and extending upwardly through a portion of said weather strip fixed to said bottom bar, upper and lower substantially iiat mounting plates between said panel and said upper and lower pivots, said mounting plates being bonded in surface to surface relation to said panel, the lower mounting plate being welded to the upwardly extending portion of said lower pivot pin, and a socket cup welded to the upper mounting plate and pivotally receiving the upper pivot pin.

0) US2815244A – VEHICLE RAIN VISOR

31) Family number: 22279304 (US2815244A) © PatBase

Title: VEHICLE RAIN VISOR

Priority: US19560628612 19561217

Family:

Publication number	Publication date	Application number	Application date
US2815244 A	19571203	US19560628612	19561217

Probable Assignee: FRANCIS JOHN P

Assignee(s):(std)**:** FRANCIS JOHN P

Inventor(s):(std)**:** FRANCIS JOHN P

International class (IPC 8–9): B60J1/00 (Advanced/Invention); B60J1/00 (Core/Invention)

International class (IPC 1–7): B60J3/00

CPC: B60J1/002

European class: B60J1/00C

US class: 296/95.1

Classification Explorer

Cited documents: US2720415 A, US2542409 A, US1309352 A,

Forward Citations: US8777292, US3352599,

Abstract:
Source: US2815244A (Claim 1) 1. I claim: I. An adjustable rain visor for the windshield of a mo» tor vehicle comprising a flat one piece longitudinally rigid and laterally flexible visor panel, a visor support for supporting the front portion of said one piece visor panel, roof engaging means mounted on said roof top for sup» porting said support therefrom, and a longitudinally and laterally adjustable rear visor support pivotally mounted onto the Het surface of the rear portion of said one piece visor panel, the rear edge and the upper rear surface of GO the said rear visor support being adapted to freely engage the under surface of a forwardly extending lateral projection of said vehicle for adjustably supporting the rear lateral portion of said one piece visor panel in spaced and also related lateral contour of support with said lateral projection when llexibly attached thereto for lateral support and for the longitudinal and the angular adjustment of said one piece visor panel from the contact point of said rear visor support with said lateral projection of said vehicle.

0) US2823746A – WINDSHIELD PROTECTOR

32) Family number: 22313808 (US2823746A) © PatBase

Title:	WINDSHIELD PROTECTOR
Priority:	US19550480652 19550110

Family:

Publication number	Publication date	Application number	Application date
US2823746 A	19580218	US19550480652	19550110

Probable Assignee:	MORGAN WILLIAM H
Assignee(s):(std)**:**	MORGAN WILLIAM H
Inventor(s):(std)**:**	MORGAN WILLIAM H
International class (IPC 8–9)**:**	B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)
International class (IPC 1–7)**:**	B60J11/00
CPC:	B60J11/08
European class:	B60J11/08
US class:	160/370.22 296/95.1
Classification Explorer	
Cited documents:	US2646118 A, US2437845 A, US2223145 A,
Forward Citations:	US6015180, US5014758, US4979554, US4936599, US3192542, US2979129, US2009301671, US2005217911,

Abstract:
Source: US2823746A (Claim 1) 1. A windshield protector for a vehicle having corner '3–5 posts and a door frame swingable thereon comprising, a sheet of plastic material having one end wound upon a pole, a rod havin.– ends secured to the pole in a manner to hold the latter against rotation, a suction cup on said rod for engaging one side edge of the windshield, means on said rod for engaging the _door frame of the vehicle, a second rod secured to tl–le other end of the plast–,c sheet of material, a suction cup on said last–named rod for engaging the other side edge of, the_ windshield, a hook member having one end engaging said suction cup and its other end engaging the corner post for retaining the sheet of material in taut condition across the, windshield and the suction cups engaging the opposite side edges of the windshield.

0) US2837362A – DOOR VENTILATOR LATCH

33) Family number: 22421986 (US2837362A) © PatBase

Title: DOOR VENTILATOR LATCH

Priority: US19570640753 19570218

Family:

Publication number	Publication date	Application number	Application date
US2837362 A	19580603	US19570640753	19570218

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** MEYER BARTHOLD F

International class (IPC 8–9)**:** B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7)**:** E05C3/00

CPC: Y10S292/06 B60J1/14 Y10T292/1089

European class: B60J1/14

US class: 292/207 292/DIG.6

Classification Explorer

Cited documents: US2710213 A, US2603515 A,

Forward Citations: US4986585, US3652112,

Abstract:
Source: US2837362A (Claim 1) 1, A latch for a swinging closure, comprising: a mounting stud having a bearing portion and a reduced cylindrical shank portion; a latch housing mounted on said stud for rotative movement on the bearing portion thereof, said housing surrounding the shank portion of the stud in spaced relation thereto and said housing having an opening in its outer wall opposite the shank portion of the stud; a latching arm projecting outward from the housing; a latching sleeve in said housing, said sleeve having a generally elliptical bore through which the shank portion of the stud projects, the sleeve being radially movable .on the shank portion of the stud and said sleeve and shank portion having complementary locking parts thereon to lock the sleeve against rotation on the stud; a finger operator projecting from said sleeve out through the opening in said housm for moving the sleeve radially in said housing to disconnect the complementary locking parts of the sleeve and the shank portion and permit rotative movement of the housing and sleeve on the stud to swing the latching arm from latched to unlatched position; and keeper means for engagement by said latching arm in the latched position thereof.

0) US3017674A – SLIDING DOOR ARRANGEMENT FOR VEHICLES SUCH AS R...

34) Family number: 20514477 (US3017674A) © PatBase

Title: SLIDING DOOR ARRANGEMENT FOR VEHICLES SUCH AS RAILROAD CARS

Priority: DE1956S050325 19560911 DE1957S055414 19571002 DE1958R023722 19580721

Family:

Publication number	Publication date	Application number	Application date
BE560545 A	00000000		00000000
CH357088 A	19610930		19570821
CH367847 A	19630315	CH19580064475	19580929
DE1116260 B	19611102	DE1956S050325	19560911
DE1136363 B	19620913	DE1957S055414	19571002
DE1169983 B	19640514	DE1958R023722	19580721
FR1189943 A	19591008		19570906
GB831355 A	19600330	GB19570028713	19570911
GB854496 A	19601123	GB19580031387	19581001
NL103323 C	00000000		00000000
NL108024 C	00000000		00000000
NL120380 C	00000000		00000000
NL231844 A	00000000		00000000
NL233518 A	00000000		00000000
US2997753 A	19610829	US19570681917	19570904
US3017674 A	19620123	US19580764627	19581001

Probable Assignee: RHEINSTAHL SIEGENER EISENBAHNB

Assignee(s):(std)**:** RHEINSTAHL SIEGENER EISENBAHNB ; RHEINSTAHL SIEGENER EISENBAHUB

Assignee(s): RHEINSTAHL SIEGENER EISENBAHNBEDARF GMBH ; RHEINSTAHL SIEGENER EISENBAHNBEHARF AG ; RHEINSTAHL SIEGENER EISENBAHUBEDARF AG ; RHEINSTAHL SIEGENER EISENBAHNBEDARF A G ; RHEINSTAHL SIEGENER EISENBAHNBEDARF AG ; RHEINSTAHL SIEGENER EISENBAHNBEDARF AKTIENGESELLSC ; RHEINSTAHL SIEGENER EISENBAHNBEDARF AKTIENGESELLSCHAFT ; RHEINSTAHL SIEGENER EISENBAHUBEDARF A G ; RHEINSTAHL SIEGENER EISENBAHNBEHARF A G ; RHEINSTAHL SIEGENER EISENBAHNBEDARF G M B H

Inventor(s):(std)**:** BRILL FRITZ DIPL ING ; EMIL BRILL FRIEDRICH ; FRIEDRICH EMIL BRILL ; FRITZ BRILL ; KARL RAAB ; KEIL WALTER ; RAAB DIPL ING DR KARL ; RAAB DR ING KARL ; RAAB KARL DR ; TITTELBACH DIPL ING FRITZ ; TITTELBACH FRITZ DIPL ING ; WALTER KEIL ; BRILL DIPL ING FRITZ

Inventor(s): BRILL FRIEDRICH EMIL ; BRILL FRITZ ; RAAB KARL

International class (IPC 8–9)**:** B61D19/00 B61D39/00 E05D15/10 (Advanced/Invention) ; B61D19/00 B61D39/00 E05D15/10 (Core/Invention)

International class (IPC 1–7)**:** B60J5/06 B61D19/00

CPC: Y10T16/379 E05D15/1044 B61D19/007 B61D39/002 E05D2015/1055 E05D2015/1063 E05Y2900/51 Y10T292/1049

European class: B61D19/00C3D B61D39/00C E05D15/10S1 P05D15/10S5 P05D15/10S9 P05Y900/510

US class: 105/377.09 16/96.00R 16/96R 292/218 49/130 49/209

Classification Explorer

Cited documents: US648889 A, US470089 A, US438325 A, US433256 A, US2709969 A, US2690141 A, US2650392 A, US2625421 A, US2587348 A, US2587027 A, US2559447 A, US2511425 A, US2320216 A, US2269631 A, US2269630 A, US2228711 A, US2201737 A, US2170053 A, US2062757 A, US1835100 A, US1832014 A, US1720933 A, US1596008 A, US1522494 A, US1448287 A, US1433324 A, US1303984 A, US1220263 A,

US1068540 A, GB607361 A, GB233567 A, GB190714958 A, DE923669 A, DE871461 A, DE839365 A, DE713968 A, DE542624 A, DE527175 A, DE421173 A, DE369377 A, DE366375 A, DE1713409 U,

Forward Citations: WO0210539, WO0210539, US8113607, US3695661, US2010281931, DK150933, DE1605040, DE1274156, DE1176690,

Abstract:
Source: GB831355A 831,355. Vehicle doors. RHEINSTAHL SIEGENER EISENBAHNBEDARF A. G., [formerly SIEGENER EISENBAHNBEDARF A. G Sept. 11, 1957 [Sept. 11, 1956], No. 28713/57. Class 103(4) Sliding wall panels 19, Figs. 6, 6a, of a railroad freight car which comprise beams 20, 21 extend in a common plane between corner posts 4, Fig. 1, and intermediate posts 5 to enclose the car sides by sliding past posts 5 by means of rear rollers 48, which engage overhead support rails 26 on car−connecting beams 7 and by front rollers 47 which travel on rails 27, or travel first of all a short distance on intermediate rails 50 which are on the posts 5 in alignment with the rails 27. The rails 26 are bent at their ends near the corner posts 4 so that as rollers 48 roll therealong upon closure of a panel 19, the panel moves inwardly from a position in which it can slide past the other panel to a position in a common plane therewith. A lever 29 pivots about a shaft 28 having a claw 30 which engages a bolt on each of the end portions of the panels adjacent the posts 5 in the common plane with each other when in the closed position to swing the panels to their sliding position outside the common plane to allow movement past the post 5 and the other panel lever 29. The lower edges of the panels have guide rollers 51 and locking means are provided on the levers which comprise a projection which engages a corresponding opening in the panel 19 with the lever against the panel in its closed position. At one end each panel 19 has a sleeve 34, Fig. 2, which has a ram 42 slidably positioned therein which co−operates with a spring 41 in a vertical recess 9 in the corner post 4 when in the closed position and the panel is also in contact with a surface 10 of the recess so that the surface forms a thrust bearing for any load from within the car. A flange 11 on the post 4 together with the edge of the panel 19 forms a seal. The panels 19 each have at their other ends a closure plate with a sealing flange 25 parallel to the panel 19 which engages around a leg on the central posts 5 by means of a nose 23 to form a seal which is resiliently secured in this position by means of the springs 41 at the other end of the panel and by the locking means. The end walls may comprise a number of panels 6 extending between the corner posts 4; a multipanel door 93, Fig. 10, braced by a bar 99, the panels being connected by hinges 94 to the corner posts and having a central, hinged door 92, or the end walls may comprise an upper part hinged at its lower edge to a rigid lower portion. Specification 726,899 is referred to.

0) US2967732A – RAIN SHIELD ATTACHMENT FOR VEHICLES

35) Family number: 21914155 (US2967732A) © PatBase

Title: RAIN SHIELD ATTACHMENT FOR VEHICLES

Priority: US19580725992 19580402

Family:

Publication number	Publication date	Application number	Application date
US2967732 A	19610110	US19580725992	19580402

Probable Assignee: RICHARDSON SHURMAN T

Assignee(s):(std)**:** RICHARDSON SHURMAN T

Inventor(s):(std)**:** RICHARDSON SHURMAN T

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/20 B60J3/00

CPC: B60J11/08

European class: B60J11/08

US class: 160/370.21 296/95.1

Classification Explorer

Cited documents: US2716572 A, US2502838 A, US2121264 A, US1500091 A, US1494864 A, US1481010 A, FR1043515 A,

Forward Citations: WO9008048, US5611380, US3400750, AU640362,

Abstract:
Source: US2967732A (Claim 1) 1. A rain shield composed of a frame extendin,_ about a portion thereof, a filler member positioned in the frame, a cover member extendin.– over the frame and the filler, clamping members secured over opposite edges of the rain shield and secured therethrough, means connected at each of the corners of the rain shield providing for removably securing the four corners of the rain shield in spaced relation to the surface of a windshield, and with all of said securing means being removably secured directly to the windshield.

0) US2972377A – RAIN VISOR FOR AUTOMOBILE WINDSHIELD

36) Family number: 21981741 (US2972377A) © PatBase

Title: RAIN VISOR FOR AUTOMOBILE WINDSHIELD

Priority: US19600011884 19600229

Family:

Publication number	Publication date	Application number	Application date
US2972377 A	19610221	US19600011884	19600229

Probable Assignee: JACOBS EDWIN N

Assignee(s):(std)**:** JACOBS EDWIN N

Inventor(s):(std)**:** JACOBS EDWIN N

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J3/00

CPC: B60J11/08

European class: B60J11/08

US class: 135/120.3 135/88.05 135/90 160/352 160/370.21 296/95.1 D12/191

Classification Explorer

Cited documents: USD186431 S1, US2716572 A, US1851770 A,

Forward Citations: US6044891, US5558145, US5197503, US5031684, US4739785, US3481644, US3424490, US3375036, US3214216, US2012211179,

Abstract:
Source: US2972377A (Claim 1) 1. A rain visor for a curved automobile windshield comprising a rectangular sheet of flexible waterproof material, said material having longitudinal sleeves extending substantially the width of said material a short distance inward from each end thereof, means for retaining one edge of said flexible sheet of material tightly against the curved windshield with the remaining portions of said sheet stretched outwardly from said windshield, said jq means including a pair of spaced apart rod members each having a support section thereof extending outwardly from said windshield through said sleeves of said flexible sheet material and supporting said sheet material outwardly from said windshield, each of said rod members 76 having. the end thereof adjacent said windshield formed into a U–shaped section with one leg of said U–shaped section of each of said rod members connecting with said outwardly extending section of each of said rod members, a suction cup attached to the second leg of said U–shaped section of each of said rod members, said suction cups being attached to said windshield for retaining at least a portion of said U–shaped section of each of said support rods against said windshield so that said outwardly extending sections are braced against said windshield for supporting said sheet of flexible waterproof material.

0) FR1353551A – FENETRE DESTINEE EN PARTICULIER A ETRE MONTEE S...

37) Family number: 22956249 (FR1353551A) © PatBase

Title: FENETRE DESTINEE EN PARTICULIER A ETRE MONTEE SUR DES ROULOTTES, DES CARAVANES OU INSTALLATIONS ANALOGUES WINDOW ESPECIALLY FOR BEING MOUNTED ON TRAILER, CARAVAN OR SIMILAR FACILITIES (Machine translation)

Priority: FR19630921354 19630114

Family:

Publication number	Publication date	Application number	Application date
FR1353551 A	19640228	FR19630921354	19630114

Inventor(s):(std)**:** GIRON ANDRE

International class (IPC 8–9)**:** B60J1/14 E05C17/30 E06B3/34 E06B3/38 (Advanced/Invention); E05D3/04 (Advanced/Non–invention); B60J1/12 E05C17/00 E06B3/32 (Core/Invention); E05D3/00 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/00 B60P3/32

CPC: E06B3/38 B60J1/14 E05C17/30 E05D3/04 E05Y2900/55

European class: B60J1/14 E05C17/30 E06B3/34 E06B3/38 P05D3/04 P05Y900/550

Classification Explorer

Forward Citations: WO15166175, DE19651618,

Abstract:
Source: FR1353551A (Claim 1) 1. Selon une autre variante, sur la branche interne du profile en U precite, est prevu un profile dont les branches sont sensiblement perpendiculaire a ladite branche interne et sont dirigees vers l'interieur de l'ouverture precitee, mais convergent l'un vers l'autre, la base d'une garniture d'etancheite cons tituee par une bande recourbee etant engagee en s'y adaptant dans ledit profile; m. La charniere de la fenetre est constituee par deux elements profiles cooperants, dont l'un est solidaire du chassis mobile de la fenetre tandis que l'autre, solidaire du cadre fixe, est, de preference, constitue par un prolongement du profile en L et U precite formant le dormant superieur du cadre et fait saillie en dehors de la paroi exterieure dans laquelle est menagee l'ouverture, les deux elements profiles se presentant sous forme de C coaxiaux engages l'un dans l'autre; n. Un profile formant auvent est fixe sur la paroi exterieure precitee au–dessus de l'ouverture precitee et comporte sur son bord longitudinal un rebord retourne vers l'interieur et prolonge par une partie en U ou en C sensiblement parallele a l'axe de pivotement de la fenetre de facon a permettre**le** montage amovible d'un volet, comportant a sa partie superieure un profile en C ou en U correspondant; o. Le volet precite comporte, a sa partie infe rieure, des pattes ou analogues mobiles, qui peuvent etre engagees entre le cadre fixe et le chassis mo bile de la fenetre pour assurer le verrouillage du volet en position de fermeture; p. Une bequille ou analogue comportant de pre ference en embout en matiere antiderapante est montee pivotante sur le volet precite pour permettre son immobilisation en une position d'ouverture quelconque la fenetre etant fermee.

Machine translation: (Claim 1) 1. In another variant, the internal branch of the U–section cited above, is provided a profile whose branches are substantially perpendicular to said inner leg and are directed towards the interior of the aforesaid opening, but converge towards the another, the basis of a seal cons tuted by a band BENT being instituted by adapting to it in said profile; m. The hinge of the window is constituted by two elements cooperants profiles, one of which is integral with the movable frame of the window while the other integral with the fixed frame, is, preferably, constitutes an extension of the profile and L U cited above forming the frame of the upper frame and protrudes outside the exterior wall where the opening is formed, the two elements is presenting profiles as C coaxial engaged in one another; n. An awning a profile is fixed on the aforesaid outer wall above said opening and on its longitudinal edge comprises a flange back inwards and extended by a U–shaped portion or C substantially parallel to the pivot axis the window to allow the Removable mounting of a component, with its upper portion has a profile in C or U corresponding o. The flap has previously cited, has its part infe SUPERIORCOURT, legs or similar mobile, which may be incurred between the fixed frame and the frame mo bile from the window so as to lock the flap in the closed position; p. Crutch or the like having a pre ference in non–slip tip is mounted pivotally on the part cited above to allow its immobilization in an open position any window being closed.

0) US3139303A – VENT WING ASSEMBLY

38) Family number: 22672954 (US3139303A) © PatBase

Title: VENT WING ASSEMBLY

Priority: US19610138638 19610918

Family:

Publication number	Publication date	Application number	Application date
US3139303 A	19640630	US19610138638	19610918

Probable Assignee: SCHUTTE CHARLES E

Assignee(s):(std)**:** SCHUTTE CHARLES E

Inventor(s):(std)**:** SCHUTTE CHARLES E

International class (IPC 8–9): B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7): B60J1/14

CPC: B60J1/14

European class: B60J1/14

US class: 296/146.2 296/208 49/166 49/391 49/480.1

Classification Explorer

Cited documents: US2983544 A, US2631887 A, US2497261 A, US1646743 A,

Forward Citations: US5557890, US4309056, US3443624, US3382619,

Abstract:
Source: US3139303A (Claim 1) 1. In an auton–iotive vehicle having a windshield and, a frame for said windshield which includes an upwardlk extending frame r–nember at one side of said vehicle, a door niounted on said ore sid,– of said vehicle for swinging 6o movement between open and closed positioqs, said door includ–ing frame mears which cooperates with said frame member in the closed position of said door to define a window opening bounded on the forward side by said frame member, a vent wing niovably mounted on said door for pivotal movement about an upright axis to a closed position closin.– said opening, and yieldable seal mea–iis mounted on said frame member and engageable with the outer surface of said vent wing adjacent the forward edge thereof in said closed position of said vent wing.

0) US3175859A – CONVERTIBLE TOP FOLDING COVER

39) Family number: 22583025 (US3175859A) © PatBase

Title:	CONVERTIBLE TOP FOLDING COVER
Priority:	US19630277670 19630430

Family:

Publication number	Publication date	Application number	Application date
US3175859 A	19650330	US19630277670	19630430

Probable Assignee:	ABODEELY ALEX J
Assignee(s):(std)**:**	ABODEELY ALEX J
Inventor(s):(std)**:**	ABODEELY ALEX J
International class (IPC 8–9)**:**	B60J7/12 (Advanced/Invention); B60J7/08 (Core/Invention)
International class (IPC 1–7)**:**	B60J7/10
CPC:	B60J7/1226
European class:	B60J7/12C
US class:	296/136.09 52/3
Classification Explorer	
Cited documents:	US2764765 A, US2479825 A, US2382635 A, FR1097263 A,
Forward Citations:	US6120087, US5489146, US5102183, US4972892, US3910330, US2006284445, US2005109380,

Abstract:
Source: US3175859A (Claim 1) 1. A foldable cover for an automobile convertible top, having a fabric like portion having front and rear ends and opposite edges and frame members including articulating link means associated with each side for raising and lowering of the convertible top, with the cover comprising: a sheet of material shaped to conform to the shape of the convertible top; means for fastening the front of the cover to the front of the convertible top; fastening means on the automobile adjacent to the rear of the convertible top, and fastening means at the rear edge of the cover for fastening the rear of the cover to the fastening means on the automobile; and elastic ribbon extension means at each side of said cover extended, when the cover is installed in place over a convertible top, upv/ard within the respective side edge of the convertible top to connection with respective articulating link means with sufficient elastic ribbon extension length between the cover edge and the respective articulating link that with the elastic ribbon extension means resiliently stretched for proper cover installation the elastic ribbon extension means readily resiliently adapts to articulation of the link means while maintaining the cover propcily m p'ôcc through repeated raisings and loweiings of the convertible '.op without exceeding the resilient elastic limits of said elastic ribbon extension means.

0) US3199184A – ELASTOMERIC SEALING STRIP AND MOUNTING MEANS AS...

40) Family number: 22943017 (US3199184A) © PatBase

Title: ELASTOMERIC SEALING STRIP AND MOUNTING MEANS ASSEMBLY PROCEDURE

Priority: US19610126419 19610622 US19630324969 19631120 US19650432322 19650212

Family:

Publication number	Publication date	Application number	Application date
US3199182 A	19650810	US19630324969	19631120
US3199184 A	19650810	US19610126419	19610622
US3225641 A	19651228	US19650432322	19650212

Probable Assignee: GEN MOTORS CORP

Assignee(s):(std)**:** GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s):(std)**:** MOORMAN CLETUS L ; HARRIS EDWARD P

International class (IPC 8–9)**:** B23P19/00 B60J10/00 (Advanced/Invention); B23P19/00 B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B29C27/00 F16B17/00

CPC: Y10S411/923 B23P19/00 Y10T29/4987 Y10T29/51 Y10T29/53361 Y10T29/53391 Y10T29/53657 Y10T29/49828 Y10T29/49876 Y10T29/5176 Y10T29/53026 Y10T29/53048 B60J10/30

European class: B23P19/00 B60J10/00G

US class: 29/235 29/33R 29/429 29/450 29/453 29/56.5 29/706 29/711 29/782 29/789 411/377 411/510 411/923 49/492.1

Classification Explorer

Cited documents: US550560 A, US547812 A, US3110938 A, US3024523 A, US3005255 A, US2987812 A, US2972789 A, US2927497 A, US2746079 A, US2746065 A, US2716804 A, US2323017 A, US2317231 A, US2216403 A, US2118817 A, US1702229 A, US1401584 A, US1398083 A, US1062635 A,

Forward Citations: WO10139046, US8684647, US8528183, US5035007, US4393551, US4141140, US4127431, US4003107, US3995359, US3837064, US3727294, US3713246, US3643315, US3571895, US3504416, US3504414, US3456483, US3387354, US3385742, US3348291, US3309955, US3258835, US2011304246, US2011116898, US2010306985, US2008238088, US2007127984, US2002131841, EP2467232, EP2467232, EP0021726, DE3515047,

Abstract:
Source: US3199184A (Claim 1) 1. An clastomeric sealing strip and mounting means asseirbiy procedure comprising, the steps of feeding the elastomeric sealin.– strip along a predetermined path, aperturin.– the sealing strip in predetermined locations so as to provide access to an internal longitudinally extending cavity frorn only one side of the elastomeric sealing strip externally thereof, dilating the clastomeric sealing strip for increasin– size of the aperture in a location where said aperttiring occurred, inserting individually in each locatioii of said apei–turing only one of a plurality of successively ivistallable plastic nail–like fastening means each with a stem integrally joined to a head portion having at least one lateral dimension larger than diameter of said aperturin._ yet to fit into the cavity d,,iring said dilatin.that at least temporarily ircreases size of said aperturing, and rcieasing the plastic fastenin.– mcaiis individually to remain with the head portion thereof in the cavity simultaneously upon said release there being a resilient return of the elastomeric sealing strip to a condition of size and shape substant,'_ally like that prior to said dilating though now s_ –iugly retaining the head portion of each fastening means with the stem thereof projecting through the locations of said aperturing along only the side of said dilating and said i_iserti–rig.

0) AT248896B – EINRICHTUNG ZUM SCHUTZ DER REIFEN EINES ABGESTE...

41) Family number: 26057430 (AT248896B) © PatBase

Title: EINRICHTUNG ZUM SCHUTZ DER REIFEN EINES ABGESTELLTEN KRAFTWAGENS GEGEN SONNENBESTRAHLUNG SET UP TO PROTECT OF THE TIRE OF A PARKED CAR AGAINST SUNLIGHT (Machine translation)

Priority: AT19640004268 19640515

Family:

Publication number	Publication date	Application number	Application date
AT248896 B	19660825	AT19640004268	19640515

Probable Assignee: MACHORKA ALFRED

Assignee(s):(std)**:** MACHORKA ALFRED

Assignee(s): ALFRED MACHORKA

Inventor(s):(std)**:** MACHORKA ALFRED

Inventor(s): ALFRED MACHORKA

International class (IPC 8–9)**:** B60C (Subclass/Invention)

International class (IPC 1–7)**:** B60C B60J11/00

Classification Explorer

Forward Citations: DE102012025638,

Abstract:
Source: AT248896B [Source: Claim 1] 2. Einrichtung nach Anspruch l, dadurch gekennzeichnet, dass die Blende an ihrem unteren Rand mit einem relativ schweren, starren Stab verbunden ist. [Source: claim 1] 2. establishment of claim l, characterised in that the aperture is connected at its bottom with a relatively heavy, rigid rod.

0) US3511186A – SUSPENDED RAILWAY CAR FLUIDICLY SUPPORTED

42) Family number: 24746375 (US3511186A) © PatBase

Title: SUSPENDED RAILWAY CAR FLUIDICLY SUPPORTED

Priority: CH19670000039 19670103 FR19650079989 19651014 FR19660046415 19660119 FR19670109425 19670607 FR19660079989 19661014

Family:

Publication number	Publication date	Application number	Application date
BE691888 A	19670529		19661228
BE715162 A	19680930		19680515
BR6786364 A0	19730628	BR19670186364	19670119
CH451993 A	19680515	CH19670000039	19670103
CH505721 A	19710415	CH19680007458	19680520
DE1580861 A1	19700423	DE19661580861	19661230
DE1580861 B2	19740815	DE19661580861	19661230
DE1580861 C3	19750417	DE19661580861	19661230
DE1580871 A1	19700723	DE1967B094934	19671013
DE1580871 B2	19770929	DE1967B094934	19671013
DE1580871 C3	19780524	DE1967B094934	19671013
DE1755608 A1	19720105	DE19681755608	19680528
ES335595 A1	19671201	ES19670335595	19670113
FR1474851 A	19670331	FR19660046415	19660119
FR91423 E	19680607	FR19660079989	19661014
FR93421 E	19690328	FR19670109425	19670607
GB1167621 A	19691015	GB19670000450	19670104
GB1198268 A	19700708	GB19670046780	19671013
GB1224334 A	19710310	GB19680023831	19680520
NL152798 B	19770415	NL19670000402	19670111
NL6700402 A	19670720	NL19670000402	19670111
NL6807480 A	19681209	NL19680007480	19680527
OA2287 A	19700505	OA19660052701	19661227
SE325916 B	19700713	SE19660017773	19661227
SU437266 D	19740725	SU19671130060	19670119
SU437266 T	19740725	SU19671130060	19670119
US3511186 A	19700512	US19680729211	19680515
US3534689 A	19701020	US19670003818	19671009

Probable Assignee: MAURICE BARTHALON PARIJS

Assignee(s):(std)**:** BARTHALON M ; BARTHALON MAURICE ; INOSTRANETS MORIS BARTALON

Assignee(s): MAURICE BARTHALON ; MAURICE BARTHALON PARIJS ; BARTHALON MAURICE PARIS

Inventor(s):(std)**:** INOSTRANETS MORIS BARTALON ; MAURICE BARTHALON ; BARTHALON M ; BARTHALON MAURICE

Inventor(s): BARTHALON MAURICE PARIS

International class (IPC 8–9)**:** B60J3/04 B60V3/04 B61B13/04 B61B13/08 B61B5/00 E01B25/08 E01B25/12 E01B25/22 E01B25/24 E01B25/26 (Advanced/Invention); B60J3/00 B60V3/00 B61B13/04 B61B13/08 B61B5/00 E01B25/00 (Core/Invention)

International class (IPC 1–7)**:** B60J3/04 B60V3/00 B60V3/04 B61B13/06 B61B13/08 B61B3/00 B61B3/02 B61B5/00 E01B

CPC: E01B25/08 B60J3/04 E01B25/24 B61B3/02 E01B25/26 B60V3/04 B61B13/04 B61B13/08 E01B25/12 E01B25/22

European class: B60J3/04 B60V3/04 B61B13/04 B61B13/08 E01B25/08 E01B25/12 E01B25/22 E01B25/24 E01B25/26

US class: 104/134 104/155 104/23.1 104/23.2 104/89 105/148 105/150 180/15 198/321 212/346

Classification Explorer

Cited documents: US3381541 A, US3233556 A, US3225228 A, US3167145 A, US3125964 A, US3106171 A, US2511979 A, US1698482 A,

Forward Citations: WO9423978, WO9208634, WO16109490, WO12061995, US9701319, US8783084, US8375865, US7124692, US7124692, US6708623, US6644209, US6279485, US5909710, US5669308, US5566620, US5542357, US5535963, US5460099, US5146854, US5020441, US4970967, US4970966, US4970964, US4970962, US4821647, US4698895, US4620358, US4102272, US4072109, US3971459, US3915093, US3872793, US3854403, US3841223, US3799061, US3797409, US3797398, US3738280, US3675582, US3631806, US3580181, US2015329097, US2012055367, US2011027057, US2007017410, US2006219124, US2004244633, US2004134373, JP56028901, JP53022283, JP52029089, JP51145191, ITMI20090804, GB2166102, FR2427427, FR2236705, FR2091929, EP0017856,

Abstract:
Source: US3511186A 1,224,334. Transporter systems; tracked hovercars. M. BARTHALON. 20 May, 1968 [7 June, 1967], No. 23831/68. Addition to 1,167,621 and 1,198,268. Headings B7K and B7L. The transporter system of parent Specifications comprising a powered car suspended from an overhead track beam by creating a subatmospheric pressure in lifting chambers formed between the car and the beam, is improved or modified in the following respects. The track beam 1 comprises adjustable wings 7 having projecting flanges 403 and the slide block 55 dovetails therein. The air extractor fans 427 extract air from a lifting chamber 420 and guide chambers 426 and discharge it through longitudinal nozzles 433 so as to impede the flow of air into the chambers 426. Lips are provided for sealing on each surface 411 of the slide block 55 and are equipped with friction shoes to engage the upper surface of each flange 403. The airconditioned car 9 is suspended from the slide block 55 by an evacuated springing chamber 408 communicating with the lifting chamber 420, and by hydropneumatic spring links 409. Successive slide blocks 55 are interconnected by flexible joints and successive cabins 9 by flexible bellows. The fans 427 may alternatively extract air directly from the guide chambers 426 (Fig. 10), and may be four in number, mounted on a frame 495 together with the windings 422 of the linear electric traction motor, the frame being spring−damper−mounted on the slide block. A points system (Fig. 13) joins a branch line 523 to a main line 522, 521, and comprises laterally pivotable side sections 526, 527 of the wings 524 and flanges 525, and a movable wing 537 rotatable about axis O by a pinion 544 meshing with a toothed section 545 movably housed in the beam 1, and guided by T−section slides 538, 539 sliding in grooves in the beam 1. In another embodiment, the points system comprises two wing sections (with flanges) connected to opposite ends of centrallypivoted cross−members which are oscillated by cranks on a shaft driven by a motor, so that the wing sections are retractable vertically and oppositely into slots in the beam 1 to set the points system in the two conditions. One of the wing sections is laterally pivotable as before. Each wing section is locked in working position by latches which engage in grooves in the interior of the beam 1 and which are on the end of a link joining the end of the cross−member to the wing section.

0) US3374820A – MEANS FOR FACILITATING THE VIEWING OF OPEN–AIR ...

43) Family number: 816971 (US3374820A) © PatBase

Title: Means for facilitating the viewing of open–air spectacles from a motorcar

Priority: US19650495377 19651011

Family:

Publication number	Publication date	Application number	Application date
US3374820 A	19680326	US19650495377	19651011

Probable Assignee: ALDO W DALL OGLIO

Assignee(s):(std)**:** ALDO W DALL OGLIO

Assignee(s): JOHANN STOCKLI

Inventor(s):(std)**:** DALL OGLIO ALDO W ; JOHANN STOCKLI ; OGLIO ALDO W DALL ; STOCKLI JOHANN

International class (IPC 8–9): B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7): B60J11/00 B60J3/00

CPC: B60J11/08

European class: B60J11/08

US class: 160/22

Classification Explorer

Cited documents: US3184264 A, US3095034 A, US2897002 A, US2853129 A, US2843421 A, US2736329 A, US2560079 A, US1919610 A, US1861061 A, US1709666 A,

Forward Citations: WO9426546, DE202012104349,

Abstract:
Source: US3374820A (Claim 1) 1. A motorcar windscreen shield for use at open–air spectacles in rainy weather comprising a hood for temporarily shiel_ding the windscreen whilst the shield is in use against rainwater reaching the windscreen from above, supportin– means for supporting the means afore– said in the operating position and for affixing same to the motorcar body and a splash catcliing strip for preventing rainwater from splashinoff the motor car bonnet onto t–he windscreen connected to means for tensioning the strip in a position transversely across said bonnet and ex– tending upwards from said bonnet with a clearance between the top of the strip and the hood, said clearance being adapted for viewing therethrou,ah from inside the motorcar.

0) DE1605040B1 – GEDECKTER GUETERWAGEN MIT SCHIEBEWANDTEILEN

44) Family number: 76235 (DE1605040B1) © PatBase

Title: Gedeckter Gueterwagen mit Schiebewandteilen

Priority: DE1967W043783 19670418

Family:

Publication number	Publication date	Application number	Application date
AT305359 B	19730226	AT19680001708	19680222
BE713824 A	19680916		19680417
CH473704 A	19690615	CH19680005646	19680417
DE1605040 B1	19710826	DE19671605040	19670418
FR1560074 A	19690314		19680329
NL6805381 A	19681021	NL19680005381	19680417

Probable Assignee: TALBOT WAGGONFAB

Assignee(s):(std)**:** TALBOT WAGGONFAB

Assignee(s): WAGGONFABRIK TALBOT

Inventor(s):(std)**:** BLANK WILHELM ; DR STIEFEL CHRISTIAN ING ; STIEFEL CHRISTIAN DR ING ; WILHELM BLANK

Inventor(s): ING STIEFEL CHRISTIAN DR

International class (IPC 8–9): B61D19/00 (Advanced/Invention); B61D19/00 (Core/Invention)

International class (IPC 1–7): B60J5/06 B61D19/00

CPC: B61D19/007

European class: B61D19/00C3D

Classification Explorer

Cited documents: DE1945239 A1, DE1187259 B, DE1176690 B, DE1169983 B, DE1129520 B, BE686265 A,

Forward Citations: EP2371653, DE3309054, DE2846326, DE2532400,

Abstract:
Source: BE713824A [Source: Claim 1] RESUME Wagon marchandises couvert, avec toit fixe ou avec toit pivotant et avec parties de parois laterales pouvant etre deplacees dans le sens longitudinal du wagon,.pour l'ouverture et pour la fermeture, par fractions, d'une ouverture de chargement disposee suivant chaque cote longi– tudinal du wagon, wagon a marchandises caracterise par les points suivants, separement ou en combinaisons: 1) le wagon possede sur chaque face longitudi– nale une ouverture interieure ininterrompue de chargement correspondant a la longueur interieure de l'enceinte de chargement entre les parois d'extremite et a la hauteur in– terieure de l'enceinte de chargement entre un plancher de cette enceinte et une poutre de toit reliant entre elles les parois d'extremite; chaque paroi laterale se compose d'au moins une porte coulissante et d'au moins une porte coulis– sante et pivotante; la porte coulissante et pivotante est plus longue que la porte coulissante et la porte coulissante et pivotante a chacune des extremites du wagon peut etre de– placee en partie au–dela des parois d'extremite. 2) chaque paroi laterale se compose de deux portes coulissantes et d'une porte coulissante et pivotante et la longueur de la porte coulissante et pivotante est plus grande que le tiers de la distance entre les parois d'extremite. sont disposees vers les parois d'extremite et les portes coulissantes et pivotantes sont disposees entre les portes coulissantes. portes coulissantes et de deux portes coulissantes et pivotantes et la largeur totale des deux portes coulissantes et pivotantes est plus grande que la moitie de la distance separant les parois d'extremite. 5) les portes coulissantes sont disposees au milieu et les portes coulissantes et pivotantes sont disposees au voisinage immediat des parois d'extremite.6) sur chaque cote longitudinal est dispose, au–dessous du plancher, un rail en forme de C, ouvert vers l'exterieur, allant d'une paroi d'extremite a l'autre et comportant deux pistes qui se trouvent l'une au–dessus de l'autre.7) sur chaque cote longitudinal est dispose, a cote de la poutre de toit, un rail de guidage ouvert vers le bas, allant d'une paroi d'extremite a l'autre et comportant deux guidages qui sont disposes l'un derriere l'autre,8) les portes coulissantes sont guidees a leur partie inferieure par au moins deux galets qui sont disposes a une certaine distance l'un de l'autre et qui s'appuient elastiquement sur la. piste superieure du rail de roulement et elles sont guidees a leur partie superieure dans le guidage posterieur du rail de guidage.9) les galets des portes coulissantes sont supportes dans un carter; ces carters sont fixes par paires l'un a cote de l'autre a un porte–galets et ces portegalets sont supportes elastiquement au moyen de charnieres, avec interposition de plaques metalliques oscillantes et contre une console assemblee avec la porte

coulissante.10) le jeu du mouvement du porte−galet est limite par une cheville faisant saillie dans une douille dont le diametre interieur est un peu plus grand que le diametre exterieur de la cheville. portee a sa partie inferieure sur la piste superieure du rail de roulement par au moins deux galets disposes a une certaine distance l'un de l'autre et elle est guidee a sa partie superieure dans le guidage anterieur du rail de guidage par au moins deux pivots roulants qui sont disposestante sont supportes dans un carter, les carters sont fixes par paires l'un a cote de l'autre a un porte−galets et les sur des axes de basculement. 19) l'axe, de basculement et le pivot roulant sont supportes contre des leviers pivotants d'au moins deux axes de pivotement qui portent la porte coulissante et pivotante. 14) les axes de pivotement sont disposes a une certaine distance de la limitation laterale de la porte coulissante et pivotante. 15) les porte−galets de la porte coulissante et pivotante sont fixes suivant un angle aigu, par rapport a la verticale a un manchon dispose sur chaque pivot de bas− utilementss 16) les dimensions des carters, des galets por− roulement sont choisies d'une maniere telle que les carters 17) les portes coulissantes et la porte coulis−contre la poutre de−toit et contre les parois d'extremiteau moyen, de dispositifs de verrouillage fixes suivant les cotes de ces portes.18) chaque dispositif de verrouillage se compose d'un arbre de verrouillage,. supporte contre la porte coulissante et pivotante, ayant un crochet de verrouillage fixe a son extremite superieure et un crochet de verrouillage fixe a son extremite inferieure et ayant a la hauteur des crochets de verrouillage des gaches de verrouillage fixees l'une dans la poutre de toit, l'autre au−dessous du plancher, chacune d'elles etant munie d'une tige de verrouillage derriere laquelle peut etre engage le crochet de verrouil−19) les parties de paroi exterieures des portes coulissantes s'engagent dans des profiles en forme de poche fixes aux parois d'extremite, 20) contre la porte coulissante et pivotante, sont disposees des barrettes de pression placees obliquement qui, a l'etat de fermeture,sont en contact, sous tension, avec les montants verticaux d'un chassis de renforcement,.21) entre les barrettes de pression et les mon−22) les portes coulissantes comportent'une baguette labyrinthe en forme de crochet qui est engagee derriere les baguettes de pression de la porte coulissante et pivotante.23) des etriers d'appui contre les baguettes de pression et les baguettes labyrinthe, sont disposes dans la zone des plaques d'usure. 24) a l'etat de fermeture et de verrouillage, les portes coulissantes et la porte coulissante et pivotante d'une paroi laterale se trouvent dans un meme plan. 25) la poutre de toit et le rail de guidage sont formes a partir d'une bande de tole, dont les bords longi− tudinaux forment les guidages ouverts vers le bas. 26) la poutre de toit se compose de deux toles pliees et soudees entre elles dont les bords longitudinaux forment les guidages ouverts vers le bas. 27) le bord d'assemblage, cote toit entre les toles de la poutre de toit sert d'appui pour un toit pivo− tant a levage et pour un toit fixe ou se presente sous la forme d'un bord d'etancheite avec joint elastique a frotte− ment. 28) chaque paroi laterale se compose d'au moins deux portes coulissantes et pivotantes, les portes coulis− santes et pivotantes peuvent pivoter pour venir dans deux plans differents dans lesquels elles peuvent etre deplacees longitudinalement et au moins la porte coulissante et pivo−des parois d'extremite aux deux extraites du wagon. 29) chaque paroi laterale se compose de trois portes coulissantes et pivotantes et la longueur de la porte coulissante et pivotante mediane est plus grande que le tiers de la distance entre les parois d'extremite. 30) les portes coulissantes et pivotantes cotes parois d'extremite sont disposees de maniere a pouvoir etre deplacees longitudinalement dans le plan interieur de pivotement tandis que la porte coulissante et pivotante mediane est disposee de maniere a pouvoir etre deplacee longitudi− nalement dans le plan de pivotement exterieur. 31) les portes coulissantes.et pivotantes extremes peuvent etre deplacees a une extremite du wagon en partie au−dela de la paroi d'extremite, 32) les leviers pivotants des portes coulissantes et pivotantes extremes sont plus longs que ceux de la porte coulissante et pivotante mediane.33) les porte−galets des portes coulissantes et pivotantes extremes sont inclines par rapport a la verticale,de ces portes sont plus courts, suivant un angle plus petit que l'angle d'inclinaison des porte−galets de la porte coulissante et pivotante mediane dont les leviers pivotants sont plus longs.34).les portes coulissantes et pivotantes extremes peuvent etre fixees au moyen d'un dispositif de serrage aux poteaux d'angle des parois d'extremite.35) chaque dispositif de serrage se compose d'une barrette'de pression articulee de maniere a pouvoir pivoter au moyen de charnieres a chaque poteau d'angle de paroi d'extremite et d'un levier de verrouillage fixe, de maniere a pouvoir tourner, sur cette barrette.36) le levier de verrouillage est place, dans sa position de fermeture, dans un crochet de verrouillage fixe a la porte 'coulissante et pivotante. [Source: Claim 1] Summary covered goods Wagon with fixed roof or with swivelling roof and side walls parties being displaced in the longitudinal direction of the wagon, .for the opening and for closing, by fractions, opening of load prepared following each side longi−longside of the wagon, wagon goods characterized by points following, separately or in combinations (: 1) the car has on each longitudinal side − NAL a continuous inner opening of corresponding loading has the length of the Interior of the enclosure of loading between the end walls and in height − ing of the loading Chamber between a floor of this Chamber and a beam of the roof connecting the end walls; each side wall consists of at least a sliding door and at least one door − grout health and swivel; sliding and pivoting door is longer than the sliding door and sliding door and swivel has both ends of the car can be−placed partly beyond the end walls. (2) each side wall consists of two sliding doors and a sliding and pivoting door and the length of the door sliding and pivoting is greater than one third of the distance between the end walls. are willing to the end walls and sliding doors and swing are arranged between the sliding doors. doors sliding and two doors sliding and swing and the total width of both sliding and pivoting doors is greater than half of the distance separating the end walls. (((5) sliding doors are arranged in the middle and sliding and revolving doors are arranged in the vicinity immediate of the walls of a end. 6) on each side longitudinal is willing, below the floor, a rail C−shaped, open to the outside, ranging from an end wall to another and with two tracks that are one above the other. 7) on each side longitudinal is placed (, over the roof beam, a rail down, open from an end wall to another and with two guides who are willing one behind, 8) sliding doors are guided their lower by at least two rollers who are willing part has some distance one of the elastiquement other and rely on the. track top of the running rail and they are guided a their upper part into the guide rail guidance. posterior 9) rollers for sliding doors are stand in a pan; These housings are fixed in pairs one next to the other has a door−rollers and these portegalets are stand elastiquement by means of hinges, with interposition of oscillating metal plates and against a meeting with the sliding door console 10) the movement of the roller door is limit by an ankle doing protruding into a socket whose inside diameter is slightly larger than the diameter of the outside of the ankle. scope has its lower part on the track upper track by at least two rollers willing has a certain distance from each other and she is guided has its top in the guide prior to the track by at least two wheel pivots that are willing

aunt are stand in a pan, the carters are fixed in pairs one next to the other has a door–rollers and the on axes of failover. (19) axis, tipping and rolling pivot are stand against at least two axes of rotation pivoting levers that carry the door sliding and pivoting. (14) the axes of rotation are willing has some distance from the side of the door sliding and pivoting limitation. (((15) door–sliding and pivoting door rollers are fixed at an acute angle, compared the vertical has has sleeve on each bottom pivot – usefully ss 16) the dimensions of the carters, pebbles por – working capital are chosen in a way such as the carters 17) sliding doors and the door – grout against the roof beam and the end walls the medium (, fixed locking devices according to the sides of these doors. 18) each locking device consists of a tree of locking. stand against the door sliding and pivoting, having a fixed locking hook has its upper end and a fixed locking hook has its lower end and having one at the height of the strikes of locking fixed locking hooks into the roof beam, the other below the floor, each one being equipped with a locking behind rod which can be committed locking hook – 19) the wall sliding doors external parties in the profiles in the form of fixed pocket in the end walls, 20) against the sliding door and Swivel, are the bars of pressure placed obliquely arranged, a State of closure, are in contact, powered with the uprights of a chassis to building,. 21) between the bars of pressure and the my – 22) sliding doors ' a labyrinth wand hook–shaped which is committed behind the pressure of the sliding door sticks and swivel. 23) Stirrups to support against the pressure chopsticks and chopsticks maze, are arranged in the area of wear plates. (24) the State closing and locking, sliding doors and the door sliding and pivoting of a lateral wall are within the same plan. (25) the roof beam and the guide rail are forms from a strip of sheet metal, whose edges longi–tudinaux form the guides open down. (26) the roof beam consists of two sheets folded and welded between them including the longitudinal edges form the guides open downwards. (27) the edge of Assembly, side roof between the the roof beam plate serves as a support for a roof pivo – both a lift and for a roof fixed or is present in the form of a seal with elastic joint edge a rub – lying. (28) each side wall consists of at least two doors sliding and pivoting, the grout–health and swivel can be rotated in both different in which they can be displaced longitudinally and at least the sliding door and pivo – to the end walls to the extracted two of the wagon. (29) each side wall consists of three sliding doors and swing and the length of the sliding door and swivel median is greater than one third of the distance between the end walls. (30) doors sliding and hinged sides end walls are arranged so that they can be displaced longitudinally in the inside of pivot plan while the sliding door and swivel median is prepared so that it can be moved longitudinal–nally in the swing outside plan. ((31) doors coulissantes.et rotating extremes can be displaced to one end of the wagon partly beyond the end wall, 32) pivoting levers of sliding and rotating extremes are longer than those of the sliding door and swivel median.(((33) sliding doors door–rollers and rotating extremes are bow to the vertical, these doors are shorter, following an angle smaller than the angle of the door rollers of the sliding door and swivel median including the pivoting levers are more long. 34).the sliding and rotating extremes can be fixed by means of a clamping device to the posts of angle of walls end. 35) each clamping device consists a bar ' pressure articulated so that it can rotate by means of hinges has each corner wall end and a fixed locking lever post, so that you can turn on this barrette. 36) the locking lever's place, in its closed position, in a fixed locking hook at the door ' sliding and pivoting.

0) US3424490A – SUPPORTING MEANS FOR AUTOMOBILE WINDSHIELD WEAT...

45) Family number: 852743 (US3424490A) © PatBase

Title: SUPPORTING MEANS FOR AUTOMOBILE WINDSHIELD WEATHER VISOR

Priority: US19670657107 19670731

Family:

Publication number	Publication date	Application number	Application date
US3424490 A	19690128	US19670657107	19670731

Probable Assignee: FRANCIS JOHN P

Assignee(s):(std)**:** FRANCIS JOHN P

Assignee(s): JOHN P FRANCIS

Inventor(s):(std)**:** FRANCIS JOHN P

Inventor(s): JOHN P FRANCIS

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/20 B60J11/00

CPC: B60J11/08

European class: B60J11/08

US class: 160/370.21 296/95 296/95.1

Classification Explorer

Cited documents: US576110 A, US3219385 A, US3205000 A, US3174536 A, US2972377 A, US2628807 A, US2511401 A,

Forward Citations: US8777292, US7261447, US5836640, US5522634, US5452933, US3650559, US2008244907, US2005018441,

Abstract:
Source: US3424490A ABSTRACT OF THE DISCLOSURE This invention provides weather protection to the windshield area, or any other transparent area of an automobile, when the vehicle is in a parked position. The visor supporting means are adapted to removably engage the surface of the windshield for supporting engagement thereto. The visor panel is removably attached to the visor supporting means, or, removably attached as a complete unit to the windshield area. The windshield area of all types of automobiles, including convertibles, are thus capable of being protected from any weather condition. This is a continuation–in–part of application Ser. No. 571,816 filed Aug. 11, 1966, now U.S. Patent No. 3,348,–875. Weather visor panel supports and weather visor panel structures are shown and described in my copending application. My invention therefore, is concerned with improved and modified embodiments of a windshield weather visor structure and primarily the supporting means therefor.

0) US3429357A – WINDSHIELD RAINSHIELD

46) Family number: 856198 (US3429357A) © PatBase

Title: WINDSHIELD RAINSHIELD

Priority: US19660581557 19660923

Family:

Publication number	Publication date	Application number	Application date
US3429357 A	19690225	US19660581557	19660923

Probable Assignee: JAMES M HOOD

Assignee(s):(std)**:** JAMES M HOOD

Inventor(s):(std)**:** HOOD JAMES M

Inventor(s): JAMES M HOOD

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/20 B60J3/00 E06B3/30

CPC: B60J11/08

European class: B60J11/08

US class: 160/368 160/370.21 296/95.1

Classification Explorer

Cited documents: US3279845 A, US3048439 A, US2797961 A, US2716572 A,

Forward Citations: US3596975, US2009184538,

Abstract:
Source: US3429357A ABSTRACT OF THE DISCLOSURE A flexible sheet of fiber board, chip board, cardboard, box board, double face corrugateci board or the like, coat–ed on at least the upper face thereof with a water barrier coating and having fastening means secured on the lower face thereof near the trailing edge thereof and cantilever–ing support means secured on the lower face thereof intermediate the leading and trailing edges thereof, but pref–erably at least slightly nearer the trailing edge thereof, said cantilevering support means being constructed and extent thereof when operatively secured to a vehicle, there–by being provided with greater resistance to wilting in the cantilevered région thereof. In one preferred form, the vehicle windshield rainshield comprises a sheet of flexible material having two opposite side edges, a leading edge, a trailing edge, an upper face and a lower face; means providing a water barrier on said upper face co–extensive therewith; means on the lower face of said sheet adjacent said trailing edge for removably securing said sheet to a vehicle roof just rearwardly of the vehicle windshield comprising an ad–hesive strip extending substantially from side–to–side of said sheet; and cantilevering support means secured on the lower face of said sheet intermediate the leading and trailing edges thereof, said cantilevering means being constructed and arranged to engage the vehicle windshield near the top of the windshield to thereby cantileveringly support the part of said sheet extending forwardly of said cantilevering means; said cantilevering means comprising the forward part of the rain–shield therefrom in a cantilevering fashion.

0) DE1680037A1 – FROSTSCHUERZE FUER KRAFTFAHRZEUG–WINDSCHUTZSCHE...

47) Family number: 474431 (DE1680037A1) © PatBase

Title: FROSTSCHUERZE FUER KRAFTFAHRZEUG–WINDSCHUTZSCHEIBEN
FROSTSCHUERZE FOR MOTOR VEHICLE WINDSHIELD (Machine translation)

Priority: DE1968E035981 19680315

Family:

Publication number	Publication date	Application number	Application date
DE1680037 A1	19710930	DE19681680037	19680315

Probable Assignee: EHRLICH HANS HEINZ

Assignee(s):(std)**:** EHRLICH HANS HEINZ

Inventor(s):(std)**:** EHRLICH HANS HEINZ

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/20 B60J11/00

CPC: B60J11/08

European class: B60J11/08

Classification Explorer

Forward Citations: WO0066384, EP0888919, DE4003226, AT503851,

Abstract:
Source: DE1680037A1 (Claim 1) 1. Frostschuerzeg dadurch gekannteichnet, dass sie besteht aus einer der Groesse der betreffenden Windschutzscheibe ange– passten Abdeckung (1), vorzugsweise aus duennem und transpa rentem Kunststoff–Folienmaterial, mit je einem seitlichen Ueberstand (la; lb)p in einem Stueck und aus gleichem lua– terial" unter Anordnung je eines Haltebandes (2; 3) an beiden Seiten der Frostschuerze im Bereich derer Ueberstaende (la; je eines Gummi–Haftsaugers (4; 5) an je einem freien –tiaeide der beiderseiti##en Halte baender (2; 3)–

Machine translation: (Claim 1) 1 Frostschuerzeg gekannteichnet in that it consists of the size of that windshield–adapted cover (1), preferably made of thin and trans parent plastic sheet material, each with a lateral supernatant (la, lb) p in one piece and on the same IUA – material "under arrangement each one retaining strap (2, 3) on both sides of the Frostschuerze in those Ueberstaende (la; ever a rubber suction cup (4, 5) each to a free–tiaeide the beiderseiti # # s straps (2 and 3) –

0) US3874028A – BEARING FOR SWIVEL HINGES

48) Family number: 17804486 (US3874028A) © PatBase

Title: BEARING FOR SWIVEL HINGES

Priority: DE19720029170U 19720805

Family:

Publication number	Publication date	Application number	Application date
DE7229170 U	19721102	DE19720229170U	19720805
FR2195291 A5	19740301	FR19730028521	19730803
GB1423871 A	19760204	GB19730037218	19730806
IT996585 A	19751210	IT19730069260	19730726
JP1115405 C3	19820929	JP19730082792	19730724
JP49058248 A2	19740606	JP19730082792	19730724
JP57002929 B4	19820119	JP19730082792	19730724
US3874028 A	19750401	US19730382832	19730726

Probable Assignee: SKF KUGELLAGERFAB GMBH

Assignee(s):(std)**:** SKF IND TRADING AND DEV ; SKF KUGELLAGERFABRIKEN GMBH

Assignee(s): SKF KUGELLAGERFAB GMBH ; SKF INDUSTRIAL TRADING DEVELOPMENT CO BV ; SKF INDUSTRIAL TRADING DEV CY BV NL ; SKF INDUSTRIAL TRADING DEV CY NL BV ; SKF IND TRADING AND DEVELOPMENT CO BV ; SKF INDUSTRIAL TRADING AND DEVELOPMENT CO BV ; SKF INDUSTRIAL TRADING AND DEVELOPMENT COMPANY B V

Inventor(s):(std)**:** BRANDENSTEIN MANFRED ; ERNST HORST ; OLSCHEWSKI ARMIN

International class(IPC 8–9)**:** E05D11/04 F16C11/04 F16C19/12 F16C19/16 F16C33/58 F16C33/78 (Advanced/Invention); E05D11/00 F16C11/04 F16C19/02 F16C33/58 F16C33/76 (Core/Invention)

International class(IPC 1–7)**:** B60J E05D11/00 E05D11/04 E05D3/02 F16C19/10 F16C19/12 F16C19/16 F16C33/58

CPC: F16C33/588 F16C19/166 E05D11/04 E05Y2900/531 F16C11/045 F16C19/12 F16C33/761 Y10T16/5379 F16C2350/54

European class: E05D11/04 F16C11/04 F16C11/04B F16C19/12 F16C19/16A4 F16C33/76B P05Y900/531

US class: 16/136 16/276

Classification Explorer

Cited documents: US924511 A, US757824 A, US2947021 A, US1885990 A, US1796068 A,

Forward Citations: US7578030, US7552512, US7203996, US4530609, US2007036350, US2006265838, US2004020014, JP62196826, FR2308826, EP1049880, EP0889254, DE4404193, DE4404193, DE19833114, DE19802454, DE19755547, DE19728606, DE19613928, DE102004053194, DE10126892, DE10126892, CN106761097, CN103388618,

Abstract:
Source: US3874028A A swivel hinge wherein a pair of cup shaped bearing rings are aligned in the same axial direction and have a plurality of balls arranged therebetween. Each of the bearing rings has an axially outward directed hinge supporting shoulder which is adapted to be received by respective hinge leaves, and a radially outward extending ball race surface supporting the balls. Each of the ball race surfaces terminate in an axially inwardly directed annular flange, the flange of one of the rings overlying and gripping the flange of the other of the rings so as to seal the bearing.

0) US3830018A – SAFETY DEVICE FOR POWER WINDOW

49) Family number: 4103645 (US3830018A) © PatBase

Title: SAFETY DEVICE FOR POWER WINDOW

Priority: JP19700013693 19700217 US19710114878 19710212 US19730344723 19730326

Family:

Publication number	Publication date	Application number	Application date
JP48044445 B4	19731225	JP19700013693	19700217
US3830018 A	19740820	US19730344723	19730326

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s):(std): TOYOTA MOTOR CO LTD

Assignee(s): TOYOTA JIDOSHA KOGYO JA KK ; TOYOTA JIDOSHA KOGYO KK JA

Inventor(s):(std): YUNUKI M ; NAKAMURA M ; ARAI H

Inventor(s): ARAI H JA ; NAKAMURA M JA ; YUNUKI M JA

International class (IPC 8–9): B60J1/00 B60J10/00 B60J10/04 E05F15/00 (Advanced/Invention); B60J1/00 B60J10/00 B60J10/02 E05F15/00 (Core/Invention)

International class (IPC 1–7): E05F15/08

CPC: B60J10/00 E05Y2900/55 E05F15/443 B60J10/74

European class: B60J10/00 B60J10/04 E05F15/00B6D2 P05Y900/550

US class: 200/61.43 49/2.8 49/28

Classification Explorer

Cited documents: US3662491 A, US3465476 A, US3303303 A,

Forward Citations: WO9635035, WO9606256, WO9606255, WO07038691, US9797179, US9705494, US9575481, US9199608, US9051769, US7161320, US6748702, US6223467, US6160370, US5880421, US5857061, US5712620, US5605429, US5481076, US5296658, US5259143, US4908554, US4810944, US4532388, US4365188, US2011041409, US2007068741, US2007007068, US2005057203, US2003233790, JP61099979, GB2371589, GB2371589, FR2642546, EP1361096, EP1361096, EP0791716, EP0702341, EP0381578, EP0104414, DE4318448, DE4010468, DE3427771, DE3418589, DE3338810, DE3312223,

Abstract:
Source: US3830018A A safety device for power windows comprising a pressure sensitive tape–like switch including a plurality of electrode plates each made of a tape–like flexible and resilient material and juxtaposed to and spaced apart from each other a distance of 1 or several millimeters, a flexible insulating protective case containing said electrode plates therein, and a window operation control circuit for stopping at least a closing motion of a window pane when external force is exerted on said pressure sensitive switch while the window pane is moving in closing motion. Said tape–like pressure sensitive switch is attached to a fixed part of a motor vehicle.

0) US3934111A – APPARATUS FOR HEATING A WINDOW

50) Family number: 25925864 (US3934111A) © PatBase

Title: APPARATUS FOR HEATING A WINDOW

Priority: FR19730005468 19730216

Family:

Publication number	Publication date	Application number	Application date
AR200906 A1	19741227	AR19740252284	19740211
AT124174 A	19760815	AT19740001241	19740215
AT336412 B	19770510	AT19740001241	19740215
AU197465603 A1	19750814	AU19740065603	19740214
BE811126 A1	19740816	BE19740140997	19740215
BR7401125 A	19751014	BR19740001125	19740215
CA998083 A1	19761005	CA19740192803	19740218
CH600728 A	19780630	CH19740002161	19740215
CS204980 B2	19810430	CS19740001166	19740218
DD110598 A	00000000	DD19740176627	00000000
DD110598 C	19741220	DD19740176627	19740218
DE2406836 A1	19740822	DE19742406836	19740213
DE2406836 B2	19790510	DE19742406836	19740213
DE2406836 C3	19800103	DE19742406836	19740213
DK142740 B	19810105	DK19740000820	19740215
DK142740 C	19810810	DK19740000820	19740215
ES423330 A1	19760501	ES19740423330	19740216
FI58222 B	19800829	FI19740000412	19740213
FI58222 C	19801210	FI19740000412	19740213
FR2218710 A1	19740913	FR19730005468	19730216
FR2218710 B1	19760430	FR19730005468	19730216
GB1449325 A	19760915	GB19740006525	19740213
IN138709 A	19760320	IN1974CA00318	19740214
IT1007692 A	19761030	IT19740020914	19740408
JP50007229 A2	19750124	JP19740018441	19740215
LU69396 A	19741001	LU19740069396	19740215
NL7402095 A	19740820	NL19740002095	19740215
NO142568 B	19800602	NO19740000509	19740215
NO142568 C	19800910	NO19740000509	19740215
SE387814 B	19760913	SE19740002036	19740215
SE387814 C	19761223	SE19740002036	19740215
US3934111 A	19760120	US19740442831	19740215
ZA7400978 A	19750129	ZA19740000978	19740214

Probable Assignee: SAINT GOBAIN

Assignee(s):(std)**:** VER GLASWERKE GMBH ; SAINT GOBAIN INDUSTRIES ; SAINT GOBAIN INDUSTRIES FR ; SAINT GOBAIN IND ; GLASWERKE GMBH VER ; SAINT GOBAIN

Assignee(s): VEREINIGTE GLASWERKE GMBH ; SAINT GABAIN INDUSTRIES ; ROSELLI SERGIO ; SAINT COBAIN IND ; GLASWERKE GMBH 5100 AACHEN VER ; SAUER GERD ; SAINT GABAIN IND ; SAINT GOBAIN IND FR ; VEREINIGTE GLASWERKE GMBH 5100 AACHEN

Inventor(s):(std)**:** GERD SAUER ; ROSELLI S ; ROSELLI SERGIE ; ROSSELI S ; SAUER G ; SAUER GERD ; ROSELLI SERGIO ; SAUER GERD DIPL ING ; SERGIO ROSELLI

Inventor(s):

SERGIO ROSELLI AND GERD SAUER ; ROSELLI SERGIO PISA ITALIEN ; SAUER GERD DE ; ROSELLI SERGIE IT

International class (IPC 8–9): B60S1/02 E06B7/12 G05D22/02 G05D27/02 H05B1/02 H05B3/84 (Advanced/Invention); B60S1/02 (Advanced/Non–invention); B60S1/02 E06B7/00 G05D22/00 G05D27/00 H05B1/02 H05B3/84 (Core/Invention)

International class (IPC 1–7): B60H1/22 B60J1/00 B60J1/02 B60J1/18 B60J1/20 B60R1/00 B60R18/04 B60S1/02 B60S1/56 B64D15/20 E06B7/12 G05B11/32 G05D23/00 G05D23/19 G05D27/02 H05B1/02 H05B3/26

CPC: H05B1/0236 H05B3/84 G05D22/02 G05D27/02 H05B2203/035

European class: G05D22/02 G05D27/02 H05B3/84 H05B3/84P T05B203/035

US class: 15/250.001 15/250.05 219/203 219/219 219/491 219/522 340/522 340/602 52/171.2

Classification Explorer

Cited documents: US3749885 A, US3540655 A, US3200705 A, US3194960 A, US2557905 A, US2049321 A, JP49105813 A2,

Forward Citations: WO08019272, WO08019272, US7416331, US7331531, US7028531, US6886351, US6834509, US6653606, US6627851, US6359265, US5808777, US5610756, US5496989, US5057666, US4956542, US4693172, US4506137, US4395622, US4387290, US4347444, US4319485, US4135078, US4032745, US2008028697, US2006203879, US2006202044, US2006011596, US2004050076, US2004050072, JP54147934, JP54115834, GB2325993, FR2764258, FR2421589, EP1318697, EP0314454, DE3836559, DE3513157, DE3215802, DE2622932, CN104470010, CN104470010,

Abstract:
Source: US3934111A A grid of heating conductors for defrosting applied to the window of a vehicle is connected to a source of electrical energy through a relay–operated switch. This switch is closed either in response to a drop in the resistance between two conductors or electrodes mounted in spaced relation on an insulating support such as the window (the drop occurring by accumulation of moisture on the support and between the conductors) or in response to a drop in temperature at or near the window. For this purpose the resistance between the two conductors over the surface of the support may be paralleled by a thermostatic switch which closes with drop in temperature, both this resistance and the thermostatic switch being in the input to a trigger circuit controlling the relay to energize it in response to a decline in resistance at that input. Alternatively the trigger circuit may include thermistors which sense the drop in temperature and set the trigger circuit to the condition which energizes the relay.

0) US3995142A – DEFOGGING REAR WINDOW PANE FOR MOTOR VEHICLES

51) Family number: 1229335 (US3995142A) © PatBase

Title: Defogging rear window pane for motor vehicles

Priority: IT19730050890 19730618 IT19730050890 19730618

Family:

Publication number	Publication date	Application number	Application date
BE816066 A1	19740930	BE19740145201	19740607
DE2428108 A1	19750102	DE19742428108	19740611
DE2428108 B2	19760520	DE19742428108	19740611
DK154334 B	19881107	DK19740003198	19740614
DK154334 C	19890417	DK19740003198	19740614
DK319874 A	19750303	DK19740003198	19740614
FR2233487 A1	19750110	FR19740020707	19740614
FR2233487 B1	19761015	FR19740020707	19740614
GB1477489 A	19770622	GB19740024718	19740604
IE39713 B	19781220	IE19740001279	19740618
IE39713 L	19741218	IE19740001279	19740618
IT985711 A	19741220	IT19730050890	19730618
LU70338 A	19741017	LU19740070338	19740617
NL7407794 A	19741220	NL19740007794	19740611
US3995142 A	19761130	US19740477362	19740607

Probable Assignee: SIV SOC ITALIANA VETRO

Assignee(s):(std)**:** ITALIANO VETRO SIV S P A SOC ; SIV SOC ITALIANA VETRO ; VETRO SLV SOC IT SPA ; VETRO SLV S P A SOC IT

Assignee(s): SOCIETA ITALIANO VETRO SIV S P A ; SOCIETA ITALIANA VETRO SLV S P A ; SOC ITALIANA VETRO S I V SPA ; SOC ITALIANA VETRO SIV SPA ; SOCIETA ITALIANA VETRO SIV S P A ; ITALIANA VETRO SIV S P A ; ITALIANA VETRO SIV S P A SOCIETA ; ITALIANA VETRO SIV SPA ; ITALIANA VETRO SIV SPA IT

Inventor(s):(std)**:** BUONCRISTIANI I ; BUONCRISTIANI IVANO ; CIARDELLI U ; CIARDELLI UMBERTO ; VASTO CHIETI ITALIEN

Inventor(s): IVANO BUONCRISTIANI ; UMBERTO CIARDELLI

International class (IPC 8–9): B60S1/58 H05B3/84 (Advanced/Invention); B60S1/56 H05B3/84 (Core/Invention)

International class (IPC 1–7): A47L1/16 B60J1/00 B60J1/02 B60J1/18 B60J1/20 B60S1/02 E06B7/12 H05B3/00 H05B3/06 H05B3/10 H05B3/26

CPC: B60S1/586 H05B3/84 H05B2203/016

European class: B60S1/58D H05B3/84 T05B203/016

US class: 219/203 219/522 219/541 219/543 219/547 338/322 52/171.2

Classification Explorer

Cited documents: US3813519 A, US2827538 A, US2526327 A, US2052527 A, FR1544718 A, FR1464585 A,

Forward Citations: US9731580, US9642187, US9579955, US9475364, US9242533, US9174515, US8938914, US8915018, US8881458, US8402695, US6014840, US6011244, US5824993, US5798499, US5716536, US5288973, US4993774, US4854636, US4137447, US2010236608, JP58033550, GB2192023, GB2192023, FR2706724, FR2468272, FR2424684, EP0939580, EP0630170, DE3740593,

Abstract:
Source: US3995142A A defogging and defrosting rear window pane for motor vehicles has a plurality of spaced heating elements embedded therein. A relatively short metallic collector having a circular segment configuration is provided in each peripheral side of the window pane at opposite margins thereof. The central heating element

extends between the collectors in a rectilinear path. Additional heating elements above and below the central element have a rectilinear central portion parallel to the central element and are connected to the collectors by end portions converging on the respective collectors. The respective collectors have an appendix extending outwardly beyond the window weatherstripping to serve as a terminal for connection to a power source.

0) US3995140A – ELECTRICALLY HEATED WINDOW

52) Family number: 7266004 (US3995140A) © PatBase

Title: ELECTRICALLY HEATED WINDOW

Priority: FR19730013288 19730412 FR19740007909 19740308 US19740459103 19740408 US19760699879 19760625

Family:

Publication number	Publication date	Application number	Application date
AT304474 A	19780315	AT19740003044	19740411
AT346715 B	19781127	AT19740003044	19740411
AU197467727 A1	19751016	AU19740067727	19740410
BE813622 A1	19741011	BE19740143121	19740411
BR7402886 A0	19750107	BR19740002886	19740410
CA1005844 A1	19770222	CA19740197316	19740410
CH589524 A	19770715	CH19740005088	19740411
CS219864 B2	19830325	CS19740002674	19740412
DD111333 C	19750212	DD19740177858	19740411
DE2417017 A1	19741031	DE19742417017	19740408
DE2417017 B2	19760930	DE19742417017	19740408
DE2417017 C3	19770518	DE19742417017	19740408
DK139746 B	19790409	DK19740002025	19740410
DK139746 C	19790924	DK19740002025	19740410
ES425101 A1	19760516	ES19740425101	19740408
FI59687 B	19810529	FI19740001126	19740411
FI59687 C	19810910	FI19740001126	19740411
FR2225609 A1	19741108	FR19730013288	19730412
FR2225609 B1	19760521	FR19730013288	19730412
FR2263368 A2	19751003	FR19740007909	19740308
FR2263368 B2	19780324	FR19740007909	19740308
GB1458092 A	19761208	GB19740015977	19740410
IN140205 A	19760925	IN1974CA00832	19740411
IT1011737 A	19770210	IT19740068171	19740411
JP1135666 C3	19830214	JP19740040464	19740412
JP50009608 A2	19750131	JP19740040464	19740412
JP57027855 B4	19820612	JP19740040464	19740412
LU69841 A	19741121	LU19740069841	19740411
NL176062 B	19840917	NL19740004977	19740411
NL176062 C	19850218	NL19740004977	19740411
NL7404977 A	19741015	NL19740004977	19740411
NL7404977 A1	19741015	NL19740004977	19740411
NO143263 B	19800929	NO19740001335	19740410
NO143263 C	19810211	NO19740001335	19740410
SE393731 B	19770516	SE19740004919	19740410
SE393731 C	19770825	SE19740004919	19740410
SU820653 A4	19810407	SU19742018660	19740404
SU820653 S	19810407	SU19742018660	19740404
US3995140 A	19761130	US19740459103	19740408
US4135078 A	19790116	US19760699879	19760625
ZA7402333 A	19750730	ZA19740002333	19740411

Probable Assignee:	SAINT GOBAIN
Assignee(s):(std)**:**	SAINT GOBAIN ; GLASWERKE GMBH VER ; VER GLASWERKE GMBH
Assignee(s):	GLASWERKE GMBH 5100 AACHEN VER ; KUIFF SIEGFRIED ; SAINT GOBAIN INDUSTRIES FR ; SAINT GOBAIN IND ; SAINT GOBAIN INDUSTRIES ; SEN GOBEN ENDYUSTRI FA ; SAINT GOBAIN INDUSTRIES SOCIETE ANONYME TE NEUILLY ; SEN GOBEN ENDYUSTRI FIRMA ; SAINT GOBAIN IND FR ; SAINT GOBAIN INDUSTRIES SOCIETE ANONYME TE NEUILLY SUR SEINE FRANKRIJK ; UEBERWOLF HEINZ ; SAINT GOBAIN IND SOC ANONYME TE NEUILLY SUR SEINE FRANKRIJK ; VEREINIGTE GLASWERKE GMBH 5100 AACHEN
Inventor(s):(std)**:**	UEBERWOLF HEINZ ; UEBERWOLFF H ; UEBERWOLFF HEINZ ; YUBERVOLFF G ; KUIFF S ; KUIFF SIEGFRIED ; KUIFF SIEGFRIED DIPL ING
Inventor(s):	S KUIFF ; SIEGFRIED KUTU AND HEINZ UEBERWOLFF ; 5120 HERZOGENRATH ; H UEBERWOLFF ; UEBERWOLFF HEINZ DE ; SIEGFRIED KUIFF ; KUIFF SIEGFRIED DE ; HEINZ UEBERWOLFF ; G YUBERVOLFF FR
International class (IPC 8–9)**:**	B60J1/00 B60S1/02 E06B7/12 G01N27/04 H05B3/26 H05B3/84 H05K1/16 (Advanced/Invention); B60J1/00 B60S1/02 H05K1/16 (Advanced/Non–invention); B60J1/00 B60S1/02 G01N27/04 H05B3/84 H05K1/16 (Core/Invention)
International class (IPC 1–7)**:**	B60H1/22 B60J1/00 B60J1/02 B60J1/18 B60J1/20 B60S1/58 C03C27/00 E06B7/00 E06B7/12 G01N19/10 G01N27/06 G01N27/12 H01H29/00 H05B1/02 H05B3/00 H05B3/20 H05B3/26 H05K1/02
CPC:	H05B1/0236 H05B3/84 H05B2203/035 G01N27/048
European class:	G01N27/04E H05B3/84 H05B3/84P T05B203/035
US class:	200/61.05 219/203 219/509 219/522 219/547 338/35 340/602 340/604 52/171.2 73/73
Classification Explorer	
Cited documents:	US3983527 A, US3934111 A, US3832527 A, US3794847 A, US3649898 A, US3555289 A, US2407215 A, JP49032685 U, JP49031965 U, JP47034708 A2, JP47020841 A2, JP47013876 U,
Forward Citations:	WO17077128, USRE33343, USRE32218, US9420640, US9108591, US8927911, US8870394, US7231727, US5821501, US5780719, US5653904, US4940317, US4565919, US4530456, US4378484, US4361751, US4323726, US4127763, US2014061183, US2011017487, US2008061933, US2007181565, US2003150129, RU2532667, RU2505948, JP62085601, GB2185578, GB2185578, FR2313239, DE102006029406,

Abstract:
Source: US3995140A An electrically heated window for a vehicle includes a smooth surfaced transparent sheet having a plurality of spaced electric resistance heating conductors on the surface thereof. A humidity detector is provided on the inside surface of the sheet and includes two sets of conductors standing in relief above the surface of the sheet and each having substantially the shape of a comb with the teeth of the two combs interdigitated and extending substantially in the direction of maximum slope of the sheet. The back of the upper comb defines a gutter for the diversion of water droplets from the area occupied by the teeth of the combs.

0) US4032745A – CONTROL SYSTEM FOR VEHICLE WINDOW HEATER

53) Family number: 1261548 (US4032745A) © PatBase

Title: CONTROL SYSTEM FOR VEHICLE WINDOW HEATER

Priority: FR19740013650 19740419 FR19740028506 19740820 US19750568997 19750417 FR19750017091 19750602

Family:

Publication number	Publication date	Application number	Application date
AR207037 A1	19760909	AR19750258359	19750101
AT299075 A	19771215	AT19750002990	19750418
AT345111 B	19780825	AT19750002990	19750418
AT376863 B	19850110	AT19760003967	19760531
AT396776 A	19840515	AT19760003967	19760531
AU197614504 A1	19771208	AU19760014504	19760601
AU497166 B2	19781207	AU19760014504	19760601
BE828121 A1	19751020	BE19750155556	19750418
BE842460 A1	19761201	BE19760167536	19760601
BR7603437 A	19770215	BR19760003437	19760531
CA1010100 A1	19770510	CA19750225057	19750421
CA1079337 A1	19800610	CA19760253892	19760602
CH605212 A	19780929	CH19750005009	19750418
CH611097 A	19790515	CH19760006868	19760601
CS214661 B2	19820528	CS19760003541	19760527
CS222215 B2	19830527	CS19750002716	19750418
DD118770 C	19760312	DD19750185550	19750418
DD124373 C	19770216	DD19760193070	19760528
DE2517087 A1	19751106	DE19752517087	19750418
DE2517087 B2	19790118	DE19752517087	19750418
DE2517087 C3	19790927	DE19752517087	19750418
DE2517088 A1	19760304	DE19752517088	19750418
DE2517088 B2	19760902	DE19752517088	19750418
DE2517088 C3	19770407	DE19752517088	19750418
DE2622932 A1	19761216	DE19762622932	19760521
DK168675 A	19751020	DK19750001686	19750418
DK240876 A	19761203	DK19760002408	19760601
ES436772 A1	19770116	ES19750436772	19750419
ES448437 A1	19770701	ES19760448437	19760601
FI60477 B	19810930	FI19750001175	19750418
FI60477 C	19820111	FI19750001175	19750418
FI63647 B	19830331	FI19760001533	19760531
FI63647 C	19830711	FI19760001533	19760531
FI751175 A	19751020	FI19750001175	19750418
FI761533 A	19761203	FI19760001533	19760531
FR2268425 A1	19751114	FR19740013650	19740419
FR2268425 B1	19771014	FR19740013650	19740419
FR2282358 A1	19760319	FR19740028506	19740820
FR2282358 B1	19761231	FR19740028506	19740820
FR2313239 A1	19761231	FR19750017091	19750602
FR2313239 B1	19780901	FR19750017091	19750602

GB1480193 A	19770720	GB19750015688	19750416
GB1520975 A	19780809	GB19760022291	19760528
IN144790 A	19780708	IN1975CA00867	19750429
IT1037465 A	19791110	IT19750022543	19750421
IT1068114 A	19850321	IT19760023847	19760601
JP1184665 C3	19840120	JP19750046585	19750418
JP51010818 A2	19760128	JP19750046585	19750418
JP51147828 A2	19761218	JP19760063009	19760601
JP58015452 B4	19830325	JP19750046585	19750418
LU75064 A	19770307	LU19760075064	19760601
NL7504637 A	19751021	NL19750004637	19750418
NL7605833 A	19761206	NL19760005833	19760531
NO143186 B	19800915	NO19750001402	19750418
NO143186 C	19801229	NO19750001402	19750418
NO148807 B	19830912	NO19760001851	19760601
NO148807 C	19831221	NO19760001851	19760601
NO751402 A	19751021	NO19750001402	19750418
NO761851 A	19761203	NO19760001851	19760601
PL108420 B1	19800430	PL19750179774	19750419
PT65155 A	19760601	PT19760065155	19760531
PT65155 B	19771013	PT19760065155	19760531
SE408516 B	19790611	SE19750004466	19750417
SE408516 C	19790920	SE19750004466	19750417
SE7504466 A	19751020	SE19750004466D	19750417
SE7606182 A	19761203	SE19760006182D	19760601
SU716519 D	19800215	SU19752128777	19750418
SU934902 A4	19820607	SU19762359444	19760525
SU934902 S	19820607	SU19762359444	19760525
US4032745 A	19770628	US19750568997	19750417
US4127763 A	19781128	US19760692141	19760602
ZA7502289 A	19760331	ZA19750002289	19750410

Probable Assignee: SAINT GOBAIN

Assignee(s):(std)**:** SAINT GOBAIN ; GLASWERKE GMBH VER ; VER GLASWERKE GMBH

Assignee(s): SEN GOBEN ENDYUSTRI FA ; SEN GOBEN ENDYUSTRI FIRMA ; SAINT GOBIAN INDUSTRIES ; SAINT GOBAIN INDUSTRIES SOCIETE ANONYME TE NEUILLY SUR SEINE FRANKRIJK ; SAINT GOBAIN INDUSTRIES TE NEUILLY SUR SEINE FRANKRIJK ; SAINT GOBIAN IND ; ROSELLI SERGIO ; SAINT GABAIN IND ; SAINT GABAIN INDUSTRIES ; SAINT GOBAIN INDUSTRIES ; SAINT GOBAIN IND ; SAINT GOBAIN INDUSTRIES FR ; SAINT GOBAIN IND NEUILLY SUR SEINE FRANKRE ; SAINT GOBAIN IND FR ; SAINT GOBAIN INDUSTRIES NEUILLY SUR SEINE FRANKREICH ; SAINT GOBAIN IND NEUILLY SUR SEINE FRANKREICH ; SAINT GOBAIN IND SOC ANONYME TE NEUILLY SUR SEINE FRANKRIJK ; SAINT GOBAIN IND TE NEUILLY SUR SEINE FRANKRIJK ; VEREINIGTE GLASWERKE GMBH 5100 AACHEN ; GLASWERKE GMBH 5100 AACHEN VER

Inventor(s):(std)**:** RESELLI S ; ROSELLI M ; ROSELLI M SERGIO ; ROSELLI S ; ROSELLI SERGIO ; ROSELLL S ; ROZELLI SERGIO ; ROZELLI SERZHIO ; SAUER GERD ; SAUER GERD DIPL ING ; SERUJIO ROSERI

Inventor(s): SERZHIO ROZELLI IT ; GERD SAUER ; M SERGIO ROSELLI ; SERGIO ROSELLI ; SERGIO ROZELLI IT ; S ROSELLI ; ROSELLI SERGIO IT ; ROSELLI SERGIO PISA ITALIEN ; ROSELLI M SERGIO IT ; ROSELLI MSERGIO IT

Agent(s): CALLINAN AND ASSOCIATES RICHMOND

International class (IPC 8–9): B60J1/00 B60J1/06 B60S1/02 B60S1/58 E06B7/12 G05D22/02 H05B1/02 H05B3/20 H05B3/84 (Advanced/Invention);

	B60H1/22 B60S1/02 (Advanced/Non−invention); B60J1/00 B60J1/02 B60S1/02 B60S1/56 G05D22/00 H05B1/02 H05B3/84 (Core/Invention); B60H1/22 (Core/Non−invention)
International class (IPC 1−7):	B60H1/22 B60J1/00 B60J1/06 B60J1/18 B60J1/20 B60S1/00 B60S1/02 B60S1/54 B60S1/58 C03C23/00 E06B7/12 G01M G01N25/68 G01N27/02 G01N27/12 G05B G05B11/32 G05F1/00 H01C H05B1/02 H05B3/20 H05B3/26
CPC:	Y10S15/15 H05B1/0236 B60S1/586 H05B3/84 G05D22/02 H05B2203/035
European class:	B60S1/58D G05D22/02 H05B3/84 H05B3/84P T05B203/035
US class:	15/250.05 15/DIG.15 200/61.05 219/203 219/491 219/508 219/509 219/522 219/547 318/483 338/35 340/602 340/604 52/171.2 73/73
Classification Explorer	
Cited documents:	US4048469 A, US3995140 A, US3968342 A, US3934111 A, US3916367 A, US3902040 A, US3891958 A, US3705375 A, US3696360 A, US3139085 A, US3056935 A, LU69841 A, JP48023811 A2, JP47013876 U, GB1321221 A, FR2127059 A5, DE2458154 A1, DE2406836 A1, BE823136 A1,
Forward Citations:	WO9737288, WO9003903, USRE35762, US9533656, US9420640, US9003595, US8925620, US8870394, US8550147, US8461495, US7731373, US7265323, US7241964, US7053343, US7028531, US7002115, US6853305, US6834547, US6653606, US6521868, US6144017, US6037573, US6032324, US5957384, US5852284, US5821501, US5780719, US5751071, US5672976, US5668478, US5663542, US5449885, US5386111, US5216226, US5040411, US4942349, US4897585, US4665351, US4361751, US4350978, US4323726, US4224565, US4132881, US2014061183, US2014026600, US2011109115, US2009147360, US2005269312, US2005115954, US2005072455, US2004232117, US2004195233, US2003222663, RU2505948, RU2474766, RU2468940, JP54074820, JP52127912, EP1029726, EP0890143, EP0169642, EP0083149, DE4041160, DE3513157, DE19821123, DE102011121921, DE102006054938,

Abstract:
Source: US4032745A Apparatus for controllably heating a vehicle window having a heating grid is described including an oscillator and a signal detector, with a signal circuit coupling the oscillator and the signal detector having a DC voltage component at one or more points thereof. One or more humidity detectors are coupled to the signal circuit to control the amplitude of the oscillations supplied from the oscillator to the signal detector, advantageously by voltage divider action, and capacitor means provides DC isolation between the humidity detector(s) and any DC voltage component in the signal circuit, and also between humidity detectors when a plurality are used. Advantageously the humidity detector(s) are directly connected to the heating grid, and varying DC voltage levels at the point(s) of connection to the grid are isolated by the capacitor means. Particular arrangements of the humidity detectors on the window and connections to the heating grid are described.

0) US4013315A – RAIN CURTAIN ASSEMBLY FOR GOLF CARTS

54) Family number: 1378314 (US4013315A) © PatBase

Title: RAIN CURTAIN ASSEMBLY FOR GOLF CARTS

Priority: US19750609089 19750829

Family:

Publication number	Publication date	Application number	Application date
US4013315 A	19770322	US19750609089	19750829

Probable Assignee: WEST GEORGE L

Assignee(s):(std)**:** WEST GEORGE L

Inventor(s):(std)**:** WEST GEORGE L

International class (IPC 8–9)**:** B60J11/00 B62D33/06 B62J17/08 B62K5/04 (Advanced/Invention); B62K5/00 (Advanced/Non–invention)

International class (IPC 1–7)**:** B60J7/24

CPC: B60J11/00 B62B2202/404 B62D33/06 B62J17/08 B62K5/025 B62K2005/002 Y10S280/05

European class: B60J11/00 B62D33/06 B62J17/08 B62K5/025 L62B202/404 L62K5/00C

US class: 280/DIG.5 296/138 296/83

Classification Explorer

Cited documents: US864952 A, US527162 A, US3709553 A, US3338293 A, US2789863 A, US2599066 A, US2539951 A, US2423748 A,

Forward Citations: WO10079243, USRE38272, US9333840, US9216629, US8882170, US8764098, US8757696, US7793526, US7493711, US7448666, US7354092, US7234753, US7175224, US6926334, US6916059, US6869125, US6761391, US6739486, US6692058, US6659211, US6601904, US6547312, US6439637, US6227217, US6206447, US6199932, US6158801, US6007134, US5975613, US5921609, US5890507, US5788317, US5741041, US5688018, US5388881, US5110174, US5010941, US4932714, US4830037, US4792175, US4773694, US4652037, US4621859, US4531156, US4377307, US4334692, US4332415, US4283084, US2012311825, US2011148087, US2010066118, US2008174143, US2008164713, US2006290163, US2006236565, US2006202503, US2006163905, US2006119129, US2005172988, US2004239140, US2004207229, US2004007894, ES2360001,

Abstract:
Source: US4013315A A rain curtain assembly for a golf cart, including a plurality of panels which are attachable to the surface of the cart by a combination of suction cups and hook means. Tie cords are provided for securing the panels to each other to prevent entry of rain and wind to the passenger compartment of the cart.

0) DE2614898A1 – ABDECKPLANE FUER FAHRZEUGE, INSBESONDERE PERSON...

55) Family number: 2550278 (DE2614898A1) © PatBase

Title: ABDECKPLANE FUER FAHRZEUGE, INSBESONDERE PERSONENKRAFTWAGEN
COVER FOR VEHICLES INCLUDING CARS (Machine translation)

Priority: DE19762614898 19760407

Family:

Publication number	Publication date	Application number	Application date
DE2614898 A1	19771020	DE19762614898	19760407

Probable Assignee: LIESFELD HERMANN

Assignee(s):(std)**:** LIESFELD HERMANN

Inventor(s):(std)**:** LIESFELD HERMANN

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J11/00 B65D85/68 F41H7/00

CPC: B60J11/02 F41H3/02

European class: B60J11/02

Classification Explorer

Forward Citations: US5015029, FR2610350, DE9212548, DE102004017058,

Abstract:
Source: DE2614898A1 Abdeckplane fuer Fahrzeuge, insbesondere Personenkraft wagen, Panzerfahrzeuge oder dergleichen, dadurch ge kennzeichnet, dass wenigstens ein Teil der Plane (7, 8) gegen die Wirkung einer Feder (15, 16) aus wenigstens eine Behaelter (4) rolloartig ausziehbar ist.

Machine translation: Cover for vehicles, especially passenger cars, armored vehicles or the like, characterized in that at least part of the plane (7, 8) against the action of a spring (15, 16) from at least one container (4) is rollo–like extendable.

0) US4119899A – MOTOR CONTROL MEANS FOR POWER DRIVEN WINDOW

56) Family number: 30861480 (US4119899A) © PatBase

Title: MOTOR CONTROL MEANS FOR POWER DRIVEN WINDOW

Priority: JP19760071903U 19760602 JP19760076539U 19760611

Family:

Publication number	Publication date	Application number	Application date
JP52162620 U1	19771209	JP19760071903U	19760602
JP52167513 U1	19771219	JP19760076539U	19760611
JP57024847 Y2	19820529	JP19760071903U	19760602
JP58036237 Y2	19830815	JP19760076539U	19760611
US4119899 A	19781010	US19770802582	19770601

Probable Assignee: TOYO KOGYO CO

Assignee(s):(std)**:** TOYO KOGYO CO

Assignee(s): TOYO KOGYO CO LTD

Inventor(s):(std)**:** SUMIDA SHIZUO

International class (IPC 8–9)**:** B60J1/12 B60J1/17 E05F15/10 E05F15/16 H01H23/00 H01H23/02 H02P1/22 H02P7/00 H02P7/06 (Advanced/Invention); B60J1/12 E05F15/16 H02P1/18 H02P7/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/12 B60J1/17 B60J5/00 E05F15/16 G05B1/00 H01H23/00 H01H9/54 H02P1/22 H04L1/16

CPC: E05Y2900/55 E05F15/695 H02P7/03

European class: E05F15/16C3 H02P7/00E P05Y900/550

US class: 318/459 318/469

Classification Explorer

Cited documents: US4048662 A, US4040117 A, US3950675 A, US3231806 A, JP53010652 U1, JP48007175 U1,

Forward Citations: US5602957, US4899063, US4544866, US4544865, US4376896, JP55149230, JP3041116, JP2022543, FR2546564, FR2465061, FR2460562, EP1162523, EP0128075, DE3516034, DE3319377,

Abstract:
Source: US4119899A A motor control means for power driven window including an reversible D.C. motor having first and second brushes and a third grounded brush. The motor control means also has a first switch for selectively supplying a D.C. power to one of the first and second brush to drive the motor. A solenoid is provided to be energized by a counter electromotive voltage induced between the first and second brushes during rotation of the motor. When the solenoid is energized, the solenoid acts to hold a second switch in a closed condition so as to maintain supply of the driving power to the motor.

0) GB1503901A – SLIDING DOOR ASSEMBLY FOR VEHICLES

57) Family number: 4789288 (GB1503901A) © PatBase

Title: SLIDING DOOR ASSEMBLY FOR VEHICLES

Priority: GB19730052623 19750213

Family:

Publication number	Publication date	Application number	Application date
GB1503901 A	19780315	GB19730052623	19750213

Probable Assignee: KORNER R

Assignee(s):(std)**:** KORNER R

International class (IPC 8–9)**:** B60J5/06 E05F15/14 (Advanced/Invention); E05D15/10 (Advanced/Non–invention); B60J5/06 E05F15/14 (Core/Invention); E05D15/10 (Core/Non–invention)

International class (IPC 1–7)**:** B60J5/06

CPC: E05Y2201/608 E05Y2201/602 E05Y2201/624 E05D15/101 E05D15/1047 E05D2015/1078 E05Y2201/22 E05Y2201/244 E05Y2201/434 E05Y2201/684 E05Y2201/722 E05Y2600/46 E05Y2900/531 B60J5/06 E05F15/638

European class: B60J5/06 E05F15/14D2 P05D15/10C2 P05D15/10S2 P05D15/10T2C P05Y201/22 P05Y201/244 P05Y201/434 P05Y201/684 P05Y201/722 P05Y600/46 P05Y900/531

Classification Explorer

Forward Citations: US4569553, ITFI20120150, DE202006015735,

Abstract:
Source: GB1503901A 1503901 Sliding doors for vehicles R J KORNER 13 Feb 1975 [13 Feb 1974] 52623/73 Heading B7B A vehicle sliding and laterally movable door assembly, Figs. 1 and 2, comprises a fixed door frame structure 2, 3; a door 1 having mounted thereon, at substantially its midheight, a guide channel 4 which in use extends parallel to the direction of sliding movement, the rear portion of the door being supported by upper and lower hinged brackets 6, 12 on the frame structure 2, 3 rotatable with a vertical shaft 7 pivotally secured to the rear door frame structure 3, the upper bracket 6 having pivoted at its free end a plastics slider 8, Fig. 5, engaging the guide 4 and the lower bracket 12 having pivoted at its free end a bearing member 13 which slidably supports the rear end of a lower guide rail 14, Fig. 4, which at its front end is pivotably securable by a hinge 15 to the front door frame structure 2, wherein the lower rail 14 supports, via trapped balls 19, an elongate relatively slidable intermediate member 18, Fig. 3, which in turn supports by trapped balls 23 an elongate relatively slidable member 22 secured to the bottom part of the door 1. Stops are provided on the lower elongate relatively slidable members to limit relative movement therebetween, and lifting movement of the front part of the door, when open, relative to the rail 14 is prevented by a stop bracket 32 on the door. The door is initially urged to the open position by a helical spring 11 secured at one end to the shaft 7 and at the other end to the vehicle structure. A stop 9 is located at the rear end of the guide channel 4 and is engaged by an L–shaped flange 10 at the free end of the bracket 6 when the door is fully closed. When the door is open the flange 10 is so positioned to permit rearward sliding of the door 1. To ensure positive location of the door on closing a tapered pin 37 thereon is engageable with a socket in the front frame structure 2. The socket has a smaller diameter than the largest diameter of the pin 37. Also the bracket 6 passes through an overcentre position to the fully closed position of the door to wedge the door relative to its frame. The door is manually operable but can be power operated by an electric motor driving a pinion engaging a toothed rack attached to the outer face of the rail 14, as described with reference to Fig. 8 (not shown). The motor is reversible and controlled by push buttons and electric switches which are also coupled by mechanical linkage to the door lock (not shown) at the rear edge of the door, as described with reference to Figs. 9 and 10 (not shown).

0) GB2042859A – A VARIABLE AREA WINDOW HEATING DEVICE

58) Family number: 19189129 (GB2042859A) © PatBase

Title: A variable area window heating device

Priority: IT19790048119 19790226

Family:

Publication number	Publication date	Application number	Application date
BE881897 A1	19800616	BE19800199531	19800225
DE8004971 U	00000000		00000000
DE8004971 U1	19801211	DE19800004971U	19800225
ES488893 A1	19800816	ES19800488893	19800225
FR2450022 A3	19800919	FR19800003918	19800222
FR2450022 B3	19810220	FR19800003918	19800222
GB2042859 A1	19800924	GB19800004595	19800212
IT1115050 A	19860203	IT19790048119	19790226
IT7948119 A0	19790226	IT19790048119	19790226
LU82196 A	19800606	LU19800082196	19800225

Probable Assignee: SIV SOC ITALIANA VETRO

Assignee(s):(std)**:** VETRO SIV S P A SOC IT ; SOCIETA ITALIANA VETRO SIV S P A ; VETRO SIV S P A VASTO CHIETI IT SOC IT ; VASTO CHIETI A ; IT VETRO SIV S P A SOC ; ITALIANA VETRO SIV SOC SPA ; ITALIANA VETRO SOC SPA ; SIV SOC ITALIANA VETRO

Assignee(s): SOC ITALIANA VETRO SIV SPA ; ITALIANA VETRO SIV SPA ; A VASTO CHIETI ; SOCIETA ITALIANA VETRO SIV S P A VASTO CHIETI ITALIEN ; SOCIETA ITALIANA VETRO SIV S P A VASTO CHIETI (ITALIEN) ; SOCIETA ITALIANA VETRO SIV SPA

Inventor(s):(std)**:** DE LENA O ; LENA O ; LENA O DE ; RADOCCIA R

Inventor(s): O DE LENA ; R RADOCCIA

International class (IPC 8–9)**:** H05B3/84 (Advanced/Invention); H05B3/84 (Core/Invention)

International class (IPC 1–7)**:** A47L1/16 B60J1/00 B60J1/18 B60S1/58 H05B3/10 H05B3/16 H05B3/22 H05B3/26

CPC: H05B3/84 H05B2203/002 H05B2203/016

European class: H05B3/84 T05B203/002 T05B203/016

Classification Explorer

Forward Citations: WO8705446, WO05117494, WO0067530, US8653419, US7297902, US7129444, US7129444, US6660968, US4513196, JP2007537927, GB2209876, GB2209876, FR2793105, FR2468272, EP1747700, EP0099034, DE3226393, CZ301270,

Abstract:
Source: GB2042859A A window heating device is divided into a plurality of interconnectible window heating units, each selectively heating a partial area of the rear window of a motor vehicle. The window heating device may comprise collectors 2, 2' and 3, 3' adjacent two opposite window margins, the collectors being connected with each other by groups of heating resistors R1, R2, R3 and being variously connectible with the electrical power source of the motor vehicle to heat selected areas of the rear window.

0) US4399347A – DEVICE FOR ATTACHMENT TO MOTOR VEHICLE WINDOWS ...

59) Family number: 1968884 (US4399347A) © PatBase

Title: DEVICE FOR ATTACHMENT TO MOTOR VEHICLE WINDOWS TO PREVENT FOGGING OR ICING

Priority: DE19803024470 19800628

Family:

Publication number	Publication date	Application number	Application date
DE3024470 A1	19820128	DE19803024470	19800628
DE3024470 C2	19850228	DE19803024470	19800628
FR2485614 A1	19811231	FR19810012238	19810622
JP57015042 A2	19820126	JP19810057816	19810416
SE448485 B	19870223	SE19810001407	19810304
SE448485 C	19870604	SE19810001407	19810304
SE8101407 A	19811229	SE19810001407	19810304
SE8101407 L	19811229	SE19810001407	19810304
US4399347 A	19830816	US19810258764	19810429

Probable Assignee: FREUDENBERG CARL FA

Assignee(s):(std)**:** FREUDENBERG CARL FA ; FREUDENBERG CARL

Assignee(s): FIRMAN CARL FREUDENBERG ; CARL FREUDENBERG 6940 WEINHEIM DE FA ; CARL FREUDENBERG FA ; CARL FREUDENBERG WEINHEIN BERSTRASSE GERMANY FA ; FA CARL FREUDENBERG ; FA CARL FREUDENBERG 6940 WEINHEIM DE ; FIRMA CARL FREUDENBERG

Inventor(s):(std)**:** SCHMITT W ; SCHMITT WILHELM ; SCHMITT WILHELM DIPL ING DR ; UIRUHERUMU SHIYUMITSUTO ; UIRUHERUMU SHUMITSUTO

Inventor(s): W SCHMITT ; WILHELM SCHMITT ; SCHMITT WILHELM DIPL INGDR

International class (IPC 8–9): B60J1/20 B60J11/00 B60S1/02 (Advanced/Invention); B60J1/20 B60J11/00 B60S1/02 (Core/Invention)

International class (IPC 1–7): B60J1/00 B60J1/20 B60S1/02 E06B3/28 E06B7/12 H05B3/36

CPC: Y10S52/13 Y10S160/02 Y10S160/03 B60J11/08 B60J1/20

European class: B60J1/20 B60J11/08

US class: 160/DIG.2 160/DIG.3 219/203 219/345 219/526 219/528 219/536 219/548 219/549 296/84R 296/95C 296/96.14 296/97D 296/97E 392/435 454/198 52/171 52/171.2 52/DIG.13 98/90

Classification Explorer

Cited documents: US4203198 A, US4202396 A, US4109957 A, US4035608 A, US3900654 A, US3880461 A, US3878362 A, US3751100 A, US3594547 A, US2735926 A, US1852599 A, US1743638 A, JP54134444 B4, JP48095331 B4, GB765709 A, GB1066822 A, FR1547618 A, DE7805962 U, DE2704248 A1, DE1911211 A1, DE1842216 U, AT255270 B, AT143527 B, AT143527,

Forward Citations: WO07054694, US9717115, US9657963, US9578690, US9468045, US9420640, US9315133, US9191997, US8916799, US8766142, US8702164, US8596331, US8544942, US8507831, US8431868, US8399805, US8153941, US7741582, US7718923, US7285748, US7210655, US7202444, US7053344, US6884965, US5893600, US5789722, US5285519, US5160827, US5046543, US5015027, US4973098, US4931697, US4902879, US4874206, US4792176, US4790591, US4784215, US4726406, US4709134, US4634242, US4607875, US2016185199, US2013075047, US2012061041, US2011006050, US2010219664, US2010032421, US2009184106, US2008290081, US2008197122, US2008179306, US2007267545, US2007176458, US2006231683, US2006192051, US2005103775, US2004238516, US2003173411, JP7223432, JP60025830, JP1068272, GB2319554, GB2319554, EP2845796, EP1764244, EP1764244, EP1147024, EP1147024,

Abstract:
Source: US4399347A A flexible device which can be detachably mounted on a window, such as a vehicle window, in order to prevent icing or fogging. The device is a semi−flexible sheet of layered materials having a length and width substantially coterminus with the window and having arranged at intervals along its two dimensions, holders which are used to detachably mount the device on the window. The sheet materials include a rather stiff supporting layer which acts as a backing surface of the sheet and a heat reflecting layer on the sheet side which faces the window when mounted. Optional layers include an insulating layer, a decorative layer, a silicone rubber electrically conductive layer and braided copper electrode strips for connecting the conductive layer to an electric source and causing the generation of heat from the conductive layer. The holders are of a length which will position the sheet a distance of about 5 to 15 mm away from the window. The air in the gap thus created is warmed by heat and light through the window. This process generates a connective warm air flow in the gap which prevents icing of fogging.

0) US4396221A – HINGED VEHICLE WINDOW ASSEMBLY

60) Family number: 5269140 (US4396221A) © PatBase

Title: HINGED VEHICLE WINDOW ASSEMBLY

Priority: CA19820405118 19820614 EP19820303103 19820615 US19800194471 19801006

Family:

Publication number	Publication date	Application number	Application date
CA1206501 A1	19860624	CA19820405118	19820614
DE3278668 D1	19880721	DE19823278668	19820615
EP0096129 A1	19831221	EP19820303103	19820615
EP0096129 B1	19880615	EP19820303103	19820615
US4396221 A	19830802	US19800194471	19801006

Probable Assignee: DONNELLY CORP

Assignee(s):(std)**:** DONNELLY CORP ; DONNELLY MIRRORS INC ; UNIV CALIFORNIA

Assignee(s): THOMAS JOHN F JR ; EXCEL IND ; EXCEL IND INC ; MEYER RAYMOND A ; MORGAN CLEON ; THE UNIV OF CALIFORNIA

Inventor(s):(std)**:** MEYER RAYMOND A ; MEYER RAYMOND ARTHUR ; MORGAN CLEON ; MORGAN CLEON CLAYTON ; THOMAS JOHN F JR ; THOMAS JOHN FRANKLIN ; THOMAS JOHN FRANKLIN JR ; THOMAS JR JOHN F

Inventor(s): THOMAS JOHN F

Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: DE FR GB SE

International class (IPC 8–9): B60J1/08 B60J1/12 B60J1/14 B60J10/00 B60J10/02 (Advanced/Invention); B60J1/08 B60J1/12 B60J10/00 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J1/08 B60J1/14

CPC: B60J10/20 B60J10/24 B60J10/30 B60J10/32 B60J1/14 B60J10/36 B60J10/78 B60J10/45

European class: B60J1/12 B60J1/14 B60J10/00D B60J10/00D5 B60J10/00G B60J10/00G1 B60J10/00G10 B60J10/02

US class: 296/146.16 296/84C 296/96.11 49/490 49/490.1 49/495.1 49/496.1 49/498.1

Classification Explorer

Cited documents: US753967 A, US4308302 A, US4167259 A, US4163884 A, US4147006 A, US4139234 A, US4124239 A, US4093304 A, US4072340 A, US4046940 A, US4042741 A, US4032740 A, US4015398 A, US4010573 A, US3967424 A, US3885072 A, US3827184 A, US3816690 A, US3781044 A, US3774363 A, US3774201 A, US3759004 A, US3756636 A, US3711893 A, US3666225 A, US3652112 A, US3638359 A, US3458242 A, US3274740 A, US3167825 A, US3155204 A, US3131251 A, US3120369 A, US3108338 A, US3096061 A, US2986793 A, US2793906 A, US2679201 A, US2608926 A, US2502970 A, US2436728 A, US1860198 A, GB1215267 A, GB1015997 A, CA702578 A,

Forward Citations: WO05044608, US9273698, US9126474, US8668989, US8322073, US8235452, US8048529, US7841636, US7838115, US7757365, US7588652, US7472947, US7469450, US7360338, US7332225, US7100328, US7076919, US7024822, US6905233, US6871450, US6846039, US6672637, US6490788, US6461137, US6319344, US6298606, US6231111, US6128860, US6123535, US6068719, US6019411, US6010180, US5966874, US5853895, US5822932, US5741043, US5704173, US5667896, US5635281, US5551197, US5516184, US5487522, US5442880, US5261721, US5174066, US5139307, US5067281, US5001867, US4861540, US4828315, US4700525, US2013156572, US2010194140, US2009217491, US2008127571, US2006260204, US2005193634, US2005193633, US2005121942, US2004245803, US2004160072, US2002158490, US2002111410, TWI350254, JP6161899, JP2013127250, FR2868114, FR2645083, EP1682370, EP0778168, EP0769400, EP0610691, EP0391763, DE4304209, DE102014201148,

Abstract:
Source: US4396221A A hinged window assembly for vehicles adapted to be installed substantially entirely from

the vehicle exterior. The assembly includes a window pane and at least one hinge preferably bonded with a suitable adhesive directly to the window pane surface without any hinge securing structure extending into or through the window. In a preferred form, the hinge is formed from flexible, resilient metal and cooperates with a sealing weather strip forming a seal between the preferred glass window pane and a vehicle body. Preferably, the fastening structure for attaching the hinge to a vehicle body is concealed from view behind the assembly when viewed from the vehicle exterior.

0) DE3245710A1 – COMPONENT, IN PARTICULAR HATCHBACK FOR A MOTOR ...

61) Family number: 3205821 (DE3245710A1) © PatBase

Title: COMPONENT, IN PARTICULAR HATCHBACK FOR A MOTOR VEHICLE

Priority: DE19823218128 19820514 DE19823245710 19821210

Family:

Publication number	Publication date	Application number	Application date
DE3245710 A1	19831117	DE19823245710	19821210

Probable Assignee: VOLKSWAGENWERK AG

Assignee(s):(std)**:** VOLKSWAGENWERK AG

Inventor(s):(std)**:** BAUER ANDREAS ; GUERINI LUIGI ; HUCKELS RONALD ; KOEHN RAINER

International class (IPC 8–9)**:** B60J1/18 B60J10/00 B60J10/02 (Advanced/Invention); B60J1/18 B60J10/00 B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B62D25/10

CPC: B60J1/006 B60J1/18 B60J5/107 B60J10/34 B60J10/70

European class: B60J1/00F3 B60J1/18 B60J10/00G2 B60J10/02 B60J5/10C5

Classification Explorer

Cited documents: DE3145210 C2, DE3115117 A1, DE2935230 A1,

Forward Citations: WO03082618, US7172322, US4822098, US4715647, FR2966781, FR2821320, EP1234752, EP0219903, DE8903386, DE4318909, DE3637622, DE3539177, DE10042439, DE10042439,

Abstract:
Source: DE3245710A1 In order to obtain a secure connection between a frame (1) and a window pane (2) which is provided therein, in particular in the case of a hatchback of a motor vehicle, the frame (1) has a profile (5) which is open in the direction of the edge region of the window pane (2) and is covered by the edge region of the window pane (2); bondings (8, 9) bondings extend preferably on both sides of the profile (5), one (9) of said bondings simultaneously fulfils sealing functions as a continuous, peripheral bonding.

0) US4492405A – SEALING STRUCTURE FOR AUTOMOTIVE VEHICLE SIDE D...

62) Family number: 4623547 (US4492405A) © PatBase

Title: SEALING STRUCTURE FOR AUTOMOTIVE VEHICLE SIDE DOORS

Priority: JP19820124192 19820716

Family:

Publication number	Publication date	Application number	Application date
DE3380987 D1	19900125	DE19833380987	19830712
EP0099116 A2	19840125	EP19830106836	19830712
EP0099116 A3	19861008	EP19830106836	19830712
EP0099116 B1	19891220	EP19830106836	19830712
JP1498571 C3	19890529	JP19820124192	19820716
JP59014519 A2	19840125	JP19820124192	19820716
JP63047647 B4	19880922	JP19820124192	19820716
US4492405 A	19850108	US19830513401	19830714

Probable Assignee: NISSAN MOTOR CO LTD

Assignee(s):(std)**:** NISSAN SHATAI CO LTD ; NISSAN SHATAI CO ; NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN JIDOSHA KK ; NISSAN MOTOR COMPANY LIMITED ; NISSAN SHATAI COMPANY LIMITED ; NITSUSAN JIDOSHA KK ; NISSAN SHATAI CO LTD HIRATSUKA KANAGAWA JP ; NISSAN MOTOR CO LTD YOKOHAMA KANAGAWA JP ; NITSUSAN SHIYATAI KK ; NITSUSAN SHATAI KK

Inventor(s):(std)**:** CHIKARAISHI TAKAYO ; KAWAMO KAZUNORI ; TUCHIYA YOSIMASA ; TSUCHIYA YOSHIMASA ; KAWAOMO KAZUNORI

Inventor(s): KAWAMO KAZUNORI ATSUGI SHI KANAGAWA KEN JP ; CHIKARAISHI TAKAYO KAWASAKI SHI KANAGAWA KEN JP ; TSUCHA YOSHIMASA ; TUCHIYA YOSIMASA EBINA SHI KANAGAWA KEN JP

Designated states: DE FR GB

International class (IPC 8–9): B60J10/00 B60J10/08 B60J5/06 B60R13/07 E06B7/23 (Advanced/Invention); B60J10/00 B60J5/06 B60R13/00 E06B7/22 (Core/Invention)

International class (IPC 1–7): B60J5/04 B60J5/06 B60R13/06 B60R13/07 E06B7/22

CPC: B60J10/24 B60J10/248 B60J10/25 B60J10/30 B60J10/40 B60J10/85 B60J10/86 B60R13/07 B60J5/06

European class: B60J10/00D5 B60J10/00D5E B60J10/00D6 B60J10/00G B60J10/00J B60J10/08B2 B60J10/08C B60J5/06 B60R13/07

US class: 296/146 296/146.9 296/154 296/213 49/483 49/483.1

Classification Explorer

Cited documents: US4378130 A, US3728819 A, US3432966 A, JP57045420 U1, JP57045420 A2, JP57045419 A2, JP57041209 A2, GB1091332 A, EP0103734 A1,

Forward Citations: WO15072558, WO12057842, USD488243, USD474845, USD460563, US9649922, US9617112, US8342601, US8328268, US7823963, US7168755, US6751908, US6601345, US4979333, US4678227, US4582358, US2017182871, US2016082815, US2012139298, US2012091749, US2011186577, US2007252410, US2006186608, US2005253413, US2003005644, KR101242266, KR100946447, JP61124416, JP6055930, JP5028723, JP4050546, JP2015072558, JP2009269526, JP2008285067, JP2006248426, JP2006248424, FR2794490, EP3072722, EP1346864, EP1057673, CN105916715,

Abstract:
Source: US4492405A A sealing structure for an automotive vehicle is adapted to establish a water−proof seal for a type of vehicle which has no pillar between adjacent front and rear doors. The seal between the adjacent doors serves as a downspout for a vehicle roof gutter for draining any water which might leak from the gutter.

0) US4475764A – AUTOMOBILE COVER

63) Family number: 4514723 (US4475764A) © PatBase

Title: Automobile cover

Priority: US19830469087 19830223

Family:

Publication number	Publication date	Application number	Application date
US4475764 A	19841009	US19830469087	19830223

Probable Assignee: HUTCHINSON MARK R

Assignee(s):(std)**:** HUTCHINSON MARK R ; PARKER DAVID A

Inventor(s):(std)**:** HUTCHINSON MARK R ; PARKER DAVID A

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J7/10

CPC: B60J11/00

European class: B60J11/00

US class: 296/136 296/136.11 296/218 296/219

Classification Explorer

Cited documents: US4330150 A, US4290640 A, DE1960427 A1,

Forward Citations: US7712825, US7422266, US7008002, US6916043, US6189962, US6094540, US5460409, US5144736, US5110178, US5102183, US5009465, US4925238, US2010140974, US2008203769, US2007187983, US2005127710, US2004178618, US2004178117,

Abstract:
Source: US4475764A A cover for the top of an automobile, having a front window, side windows, and a rear window surrounding a passenger compartment of the automobile and where the top of the automobile provides removable, self supporting covers carried by a frame assembly in the top of the automobile and where the edge of the frame adjoining the rear window of the automobile has a lip along a portion of the juncture between the removable covers and the frame where the cover provided by the present is a flexible sheet of material sized to cover the top of the automobile and the openings and includes a front flap at one edge of the cover to extend downwardly over the windshield, opposed side flaps to encroach over the side windows, and a rear edge carrying a flexible, compressible, generally circular cross section seal member, and strap means connected to the rear edge of the cover and extending outwardly therefrom and further where suction cup devices are provided on the side flaps to be secured to the side windows of the automobile, the front flap includes suction cup members to be secured to the windshield of the automobile and the straps include suction cups adjacent the terminal ends thereof to be secured to the rear window so that the cover can be pulled tightly toward the rear of the automobile to form a seal between the circular member and the ledge.

0) DE8605650U1 –

64) Family number: 16671641 (DE8605650U1) © PatBase

Priority: DE19860005650U 19860301

Family:

Publication number	Publication date	Application number	Application date
DE8605650 U1	19860417	DE19860005650U	19860301

Probable Assignee: KAMEI GMBH AND CO KG 6200 WIESBADEN DE

Assignee(s): KAMEI GMBH AND CO KG 6200 WIESBADEN DE

International class (IPC 8–9): B60J7/16 (Advanced/Invention); B60J7/08 (Core/Invention)

International class (IPC 1–7): B60J7/10

CPC: B60J7/1657

European class: B60J7/16G2E

Classification Explorer

Abstract:
Source: DE8605650U1 (Claim 1) 1. Umruestbarer Kraftwagen mit einer im Bereich der vorde– ren Sitzreihe (4) ueberdachten, nach hinten offenen Fahrgastzelle und mit mehreren Aufbaueinheiten (9; 20) fuer den verbleibenden Heckbereich, die mit dem Basis– fahrzeug (1) mittels an diesem vorgesehener Anschluss– beschlaege (8; 34) verbindbar sind, gekennzeichnet durch eine Aufbaueinheit in Form eines schwenkbar mit dem Basisfahrzeug verbindbaren starren Dachelements (30) und einer ebenfalls schwenkbar mit dem Basisfahrzeug (1) verbindbaren Heckabdeckung (31), wobei zur Verwandlung in eine Landaulett–oder Kabrio– lettkonfiguration das Dachelement (30) in an sich be– kannter Weise in den Raum unterhalb der Heckbereichs– abdeckung (31) herunterschwenkbar ist.

Machine translation: (Claim 1) 1 Convertible cars with in the prede–Ren row (4) roofed, rear open passenger compartment and multiple building units (9, 20) for the remaining stern section, with the base vehicle (1) by means of this intended connection Fittings (8, 34) connected, are characterized by a construction unit in the form of a pivotally connected to the base vehicle connectable rigid roof element (30) and also pivotally connected to the base vehicle (1) connectable to the rear cover (31), where the transformation into a Landaulett or convertible – lettkonfiguration the roof element (30) in a manner known per se in the space below the rear area cover (31) is herunterschwenkbar.

0) US4584806A – SYSTEM FOR INTERCONNECTING PANELS

65) Family number: 30883396 (US4584806A) © PatBase

Title: SYSTEM FOR INTERCONNECTING PANELS

Priority: CA19860501990 19860217 EP19860301190 19860220 EP19860301190 19860220 EP19870902909 19870313 US19900506664 19900409 US19890293828 19890105 US19850710492 19850311 US19860841477 19860319 US19870117215 19871104 WO1990US00087 19900104 WO1991US02402 19910409 WO1987US00586 19870313

Family:

Publication number	Publication date	Application number	Application date
AT59358 E	19910115	AT19860301190T	19860220
AT98194 E	19931215	AT19870902909T	19870313
AU199050434 A1	19900813	AU19900050434	19900104
AU199177634 A1	19911030	AU19910077634	19910409
AU7763491 A1	19911030	AU19910077634D	19910409
CA1275161 A1	19901016	CA19860501990	19860217
CA2079908 AA	19921005	CA19912079908	19910409
DE3676519 D1	19910207	DE19863676519	19860220
DE3788420 D1	19940120	DE19873788420	19870313
DE3788420 T2	19940511	DE19873788420T	19870313
EP0194768 A2	19860917	EP19860301190	19860220
EP0194768 A3	19880330	EP19860301190	19860220
EP0194768 B1	19901227	EP19860301190	19860220
EP0301027 A1	19890201	EP19870902909	19870313
EP0301027 A4	19890516	EP19870902909	19870313
EP0301027 B1	19931208	EP19870902909	19870313
EP0452418 A1	19911023	EP19900902959	19900104
EP0452418 A4	19920701	EP19900902959	19900104
JP1927431 C3	19950425	JP19860050713	19860310
JP4502601 T2	19920514	JP19900503068T	19900104
JP5506199 T2	19930916	JP19910508335T	19910409
JP6055620 B4	19940727	JP19860050713	19860310
JP61266808 A2	19861126	JP19860050713	19860310
JP63503220 T2	19881124	JP19870502271T	19870313
NZ231993 A	19920826	NZ19900231993	19900104
US4584806 A	19860429	US19850710492	19850311
US4796392 A	19890110	US19870117215	19871104
US4914874 A	19900410	US19890293828	19890105
US5050793 A	19910924	US19900506664	19900409
WO8705582 A1	19870924	WO1987US00586	19870313
WO9008067 A1	19900726	WO1990US00087	19900104
WO9115404 A1	19911017	WO1991US02402	19910409

Probable Assignee: ANDORIYUU ESU GURAHAMU JIYUNIA

Assignee(s):(std)**:** GRAHAM ANDREW S ; GRAHAM ANDREW STUARD ; GRAHAM ANDREW S JR ; GRAHAM JUN ; GRAHAM JR ANDREW S ; ANDORIYUU ESU GURAHAMU JIYUNIA

Assignee(s): ANDREW S GRAHAM JR ; GRAHAM JUN ANDREW S AMBLER PA US

Inventor(s):(std)**:** GRAHAM ANDREW STUARD ; GRAHAM JUN ANDREW S ; GRAHAM ANDREW S JR ; GRAHAM JR ANDREW S ; ANDORIYUU ESU GURAHAMU JIYUNIA

Inventor(s): GRAHAM JUN ; GRAHAM JUN ANDREW S AMBLER PA US ; GRAHAM ANDREW S ; ANDREW S GRAHAM JR

Agent(s): SMART AND BIGGAR

Designated states: AT AU BE CA CH DE DK ES FR GB GR IT JP LI LU NL SE

International class (IPC 8–9): B65D19/06 B65D19/14 B65D19/16 B65D19/20 B65D19/38 B65D21/08 B65D25/00 B65D5/42 B65D5/44 B65D6/26 B65D6/28 B65D69/00 B65D88/26 B65D90/08 E04B1/61 F16B12/20 F16B5/06 (Advanced/Invention); B65D19/38 B65D25/00 B65D5/44 B65D6/00 B65D6/16 B65D69/00 B65D88/00 B65D90/02 E04B1/61 F16B5/06 (Core/Invention)

International class (IPC 1–7): B25D69/00 B60J10/04 B65D19/14 B65D19/16 B65D19/20 B65D21/08 B65D25/00 B65D5/44 B65D6/24 B65D6/26 B65D6/28 B65D69/00 B65D88/26 B65D9/12 E04B1/60 E04B1/61 E04C1/10 E04G13/02 F16B5/06

CPC: B65D5/4283 B65D2519/00019 B65D2519/00024 B65D2519/00029 B65D19/38 B65D90/08 B65D2519/00034 B65D2519/00064 B65D2519/00069 B65D2519/00099 B65D2519/00104 B65D2519/00293 B65D2519/00298 B65D2519/00338 B65D2519/00373 B65D2519/00512 B65D2519/00572 B65D2519/00641 Y10S24/33 Y10T24/45005 Y10T24/45974 Y02W30/807 E04B1/6116 B65D9/32 B65D19/16 B65D2519/00134 B65D2519/00139 B65D2519/00159 B65D2519/00164 B65D2519/00169 B65D2519/00174 B65D2519/00194 B65D2519/00199 B65D2519/00203 B65D2519/00208 B65D2519/00273 B65D2519/00323 B65D2519/00333 B65D2519/00497 B65D2519/00502 B65D2519/00587 B65D2519/00611 B65D2519/00661 B65D2519/00711 B65D2519/00805 B65D2519/00995 E04B1/6112 F16B12/20

European class: B65D19/16 B65D19/38 B65D5/42J1 B65D9/32 B65D90/08 E04B1/61D1 E04B1/61D2 F16B12/20 L65D519/00Y1B1 L65D519/00Y1B2 L65D519/00Y1B3 L65D519/00Y1B4 L65D519/00Y1C3 L65D519/00Y1C4 L65D519/00Y1D3 L65D519/00Y1D4 L65D519/00Y1E3 L65D519/00Y1E4 L65D519/00Y1F1 L65D519/00Y1F2 L65D519/00Y1F3 L65D519/00Y1F4 L65D519/00Y1G1 L65D519/00Y1G2 L65D519/00Y1G3 L65D519/00Y1G4 L65D519/00Y2A2 L65D519/00Y2B2 L65D519/00Y2B5 L65D519/00Y2C2 L65D519/00Y2C4A L65D519/00Y2C4B L65D519/00Y2D1 L65D519/00Y2F1 L65D519/00Y2F2 L65D519/00Y2F5 L65D519/00Y3A2 L65D519/00Y3B1A L65D519/00Y3B1D L65D519/00Y3C1 L65D519/00Y3C1D L65D519/00Y3E1 L65D519/00Y4D L65D519/00Y4L3

US class: 217/43.00R 217/43A 217/43R 217/61 217/65 217/69 220/1.5 220/4.33 220/4F 229/122.3 229/125.23 229/198 24/573 24/573.09 24/698.2 24/DIG.33 52/285 52/285.3 52/582.2 52/584 52/584.1 52/585 52/79.1 52/79.5 52/79.7 52/98

Classification Explorer

Cited documents: US4914874 A, US4796392 A, US4584806 A, US4574537 A, US4461395 A, US4454964 A, US4454694 A, US4453471 A, US4440363 A, US4301629 A, US428726 A, US4194642 A, US4139113 A, US4083464 A, US4024977 A, US4008914 A, US3990599 A, US3955842 A, US3945601 A, US3777427 A, US3760970 A, US3477184 A, US3468094 A, US3466710 A, US3377427 A, US3323674 A, US3144951 A, US3113358 A, US3082897 A, US2919826 A, US2918319 A, US2896808 A, US2890809 A, US2734652 A, US2590159 A, US2266181 A, US2246966 A, US2225592 A, US2153122 A, US2121394 A, US2083621 A, US2006657 A, US1698574 A, US1469609 A, US1263036 A, JP60123343 A2, GB379123 A, GB2129040 A1, GB1026784 A, FR1270581 A, FR1219365 A, DE7024625 U, CA621910 A, AU239677 A1, AU239677 A1, AT60636 B, AT60636,

Forward Citations: WO9938778, WO9221574, WO9115404, WO9008067, WO15044668, WO14186264, WO11003413, WO10086140, WO08027546, WO06020927, USD681340, USD677898, USD677468, USD668459, USD668050, USD591007, USD502600, US9770108, US9763514, US9694837, US9463898, US9408460, US9285164, US9072927, US8813985, US8708178, US8490810, US8327598, US8316516, US7624887, US7381006, US7296704, US7204064, US7111561, US7021009, US6996946, US6892497, US6786009, US6758353, US6568651, US6536984, US6443508, US6361006, US6315495, US6299011, US6203235, US5899038, US5826721, US5813556, US5669507, US5538178, US5535909, US5501046, US5315794, US5072554, US5050793, US4914874, US2015076799, US2014206466, US2014167480, US2014143953, US2013340653, US2013026165, US2011155729, US2010122499, US2010000953, US2008244878, US2008105630, US2008073341, US2007221720, US2007221719, US2007221718, US2007199845, US2006162379, US2006151286, US2006123734, US2006043090, US2004251154, US2004232145, US2004232098, US2004187402, US2004154235, NL1009353, JP6129944, JP2017109768, JP2006206185, GB2518645, ES2371899, EP1927552, EP1810931, EP1810931, EP1574633, EP1574444, EP1073591, EP0592940, DE8901255, DE4325125, DE4232927, CN106275705, AU667468, AT13716,

Abstract:
Source: US4584806A System for interconnecting panels, especially adapted for use in the temporary

interconnection of panes of cartons or containers used for shipping or transportation, the arrangement is particularly adapted to the interconnection of panels in edge–to–edge relation where the panels either lie in the same plane or lie in planes extended at angles to each other particularly in a range between the 180 degrees of the common plane relationship and the 90 degree relationship at the corners of common rectangular cartons.

0) DE3533131A1 – COVER FOR THE OUTER SURFACES OF MOTOR VEHICLES ...

66) Family number: 4367037 (DE3533131A1) © PatBase

Title: Cover for the outer surfaces of motor vehicles with pressure–applying closure

Priority: DE19853533131 19850917

Family:

Publication number	Publication date	Application number	Application date
DE3533131 A1	19870319	DE19853533131	19850917

Probable Assignee: MAISENHAELDER SIEGFRIED

Assignee(s):(std)**:** MAISENHAELDER SIEGFRIED

Inventor(s):(std)**:** MAISENHAELDER SIEGFRIED

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J1/20 B60J11/00

CPC: B60J11/08

European class: B60J11/08

Classification Explorer

Abstract:
Source: DE3533131A1 Window covers of vehicles parked outside have the tendency in the winter of allowing the car windows to ice up despite their being covered. These window covers must be attached, by means of fastening elements, to the body of the respective vehicle, the outer edges of the covers not being sufficiently sealed and water being able to enter between window and cover. Subsequently, on frosty nights the window can ice up. The invention eliminates these disadvantages in that a sealing closure Fig. 3, P. 8, 12 which is detachably arranged on the window cover presses the elastic cover in a sealing fashion against the car window in order to prevent water entering between window and cover. Icing up of the car window in the event of frost is thus excluded.

0) DE3614502A1 – WINDOW MOUNT INSULATED TO THE OUTSIDE AUSSENISO...

67) Family number: 4702301 (DE3614502A1) © PatBase

Title: Window mount insulated to the outside

Priority: DE19863614502 19860429

Family:

Publication number	Publication date	Application number	Application date
DE3614502 A1	19871105	DE19863614502	19860429
DE3614502 C2	19880519	DE19863614502	19860429

Probable Assignee: ALUSUISSE

Assignee(s):(std)**:** ALUSUISSE

Assignee(s): SCHWEIZERISCHE ALUMINIUM AG ; SCHWEIZERISCHE ALUMINIUM AG CHIPPIS CH

Inventor(s):(std)**:** RITZL ANTAL

Inventor(s): RITZL ANTAL ZUERICH CH

International class (IPC 8–9): B61D25/00 E06B3/58 E06B3/64 (Advanced/Invention); B61D25/00 E06B3/58 E06B3/64 (Core/Invention)

International class (IPC 1–7): B60J1/08 B61D25/00

CPC: B61D25/00 E06B3/5878 E06B3/645

European class: B61D25/00 E06B3/58E E06B3/64B

Classification Explorer

Cited documents: EP0148123 A2, DD113490, DD101622,

Forward Citations: US4927578, FR2678981, DE9310922,

Abstract:
Source: DE3614502A1 The window mount insulated to the outside is used in a lateral superstructure for railway carriages for conveying people. This superstructure is composed of side–wall profiles (78) and pillar profiles (10), an exchangeable outer skin (24) and insulating material (80) arranged therebetween. The window case is releasably attached to the side–wall profiles (78) and to the pillar profiles (10). The inner frame (32) which is formed from at least four profile pieces arranged outside the region of the window corners and has a profile tab (44) serves as supporting surface for the outer skin (24) and receives a surrounding outer frame (46) with an undercut groove (48). A profile tab (58) which belongs to the outer frame (46) and is angled pointing away from the window opening firmly clamps the outer skin (24) and supports a mounting strip (64) made of weather–resistant, elastic material for receiving the window glass (42).

0) DE8900853U1 –

68) Family number: 17615299 (DE8900853U1) © PatBase

Priority: DE19890000853U 19890126

Family:

Publication number	Publication date	Application number	Application date
DE8900853 U1	19890511	DE19890000853U	19890126

Probable Assignee: SEIDL TILMANN DIPL ING 8918 DIESSEN DE

Assignee(s): SEIDL TILMANN DIPL ING ; SEIDL TILMANN DIPL ING 8918 DIESSEN DE

International class (IPC 8–9): B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7): B60J1/20

CPC: B60J11/08

European class: B60J11/08

Classification Explorer

Forward Citations: GB2507940,

Abstract:
Source: DE8900853U1 (Claim 1) Schnee– und Eis–Autoscheibenschutz Schutzansprueche: 1. S+E–Autoscheibenschutz zur Vermeidung von Schnee–und Eis– belag an der Frontscheibe von Automobilen mit Magnetbefestigung, dadurch gekennzeichnet, dass dieser aus einem flexiblen Vliesstoff besteht, der sich der Scheibenwoelbung anpasst, dessen Oberseite mit einer gegen Regen und Schnee dichten Polyaethylenschicht versehen ist und der eine Formgebung hat, dass die Scheibe, der Lueftungsschlitz, die Wischerblaetter und ein Randbereich am Dach und an der Motorhaube ueberdeckt werden, wobei im ueberdeckenden Randbereich Befestigungselemente bestehend aus selbstklebenden flexiblen Magnetbaendern angeordnet sind.

Machine translation: (Claim 1) snow and ice windscreen protection Schutzansprueche: 1 S and D car window protection to prevent snow and ice covering, on the windscreen of cars with magnetic attachment, characterized in that it comprises a flexible non–woven fabric consists of the Scheibenwoelbung adjusts its upper side provided with a rain and snow density polyethylene layer and has a shape of that slice, the Lueftungsschlitz that Wischerblaetter and an edge portion of the roof and hood are covered, are taking over the wide area edge fastening elements arranged consisting of self–adhesive flexible Magnetbaendern.

0) EP0407364A1 – A WEATHERSTRIP FOR MOTOR–VEHICLE BODYWORK, AN E...

69) Family number: 5455907 (EP0407364A1) © PatBase

Title: A WEATHERSTRIP FOR MOTOR–VEHICLE BODYWORK, AN EXTRUSION HEAD AND A METHOD FOR PRODUCING THE WEATHERSTRIP.

Priority: IT19890067556 19890705

Family:

Publication number	Publication date	Application number	Application date
DE69012683 D1	19941027	DE19906012683	19900703
DE69012683 T2	19950223	DE19906012683T	19900703
EP0407364 A1	19910109	EP19900830304	19900703
EP0407364 B1	19940921	EP19900830304	19900703
ES2061000 T3	19941201	ES19900830304T	19900703
IT1232133 A	19920123	IT19890067556	19890705
IT8967556 A0	19890705	IT19890067556	19890705
JP2965629 B2	19991018	JP19900179378	19900705
JP3043228 A2	19910225	JP19900179378	19900705

Probable Assignee: SAIAG SPA

Assignee(s):(std)**:** SAIAG SPA

Assignee(s): SAIAGU SPA ; S A I A G S P A ; S A I A G S P A CIRIE TURIN TORINO IT

Inventor(s):(std)**:** ROBERTO AZZOLA ; ROBERUTO ATSUZORA ; AZZOLA ROBERTO

Inventor(s): AZZOLA ROBERTO I 10141 TORINO IT

Designated states: BE DE ES FR GB NL SE

International class(IPC 8–9)**:** B29C47/00 B29C47/02 B29C47/04 B29C47/12 B29C47/20 B60J10/00 B60J5/00 B60R13/06 (Advanced/Invention); B29L31/30 (Advanced/Non–invention); B29C47/00 B29C47/02 B29C47/04 B29C47/12 B29C47/20 B60J10/00 B60J5/00 B60R13/06 (Core/Invention)

International class(IPC 1–7)**:** B29C47/02 B29C47/04 B29C47/12 B29C47/20 B29L31/30 B60J5/00 B60R13/06 B60R13/06

CPC: B60J10/22 B29C47/065 B29C47/0019 B29C47/0023 B29C47/003 B29C47/0033 B29C47/0059 B29C47/0066 B29C47/124 B60R13/06

European class: B29C47/00J10 B29C47/00J6 B29C47/00J9 B29C47/06P B29C47/12C B60J10/00D2 B60R13/06 L29C47/00J4 L29C47/00L12 L29C47/00L9

Classification Explorer

Cited documents: US4067146 A, US2780835 A, JP62121030, GB2206839 A1, FR2579927 A1, FR1498280 A, EP0200582 A1, EP0116264 A1, EP0115750 A1,

Forward Citations: WO9746365, WO13091988, WO11128878, WO11107947, US9061573, US6647666, US6385839, ES2112732, DE4135360,

Abstract:
Source: EP0407364A1 The weatherstrip (1) is intended to be applied to the edge (5) of an aperture in, or a closure element for, the bodywork of a motor vehicle and includes an anchoring protile (2) of elastomeric material and a tubular sealing profile (4), also of elastomeric material, coextruded with the anchoring profile (2). In the portions of the weatherstrip which are intended to be applied to critical portions of the edge (5) of the aperture or of the closure elements, the transverse dimension of the tubular sealing profile (4) is increased or reduced according to circumstances, while its wall thickness remains substantially unchanged.

0) DE9115663U1 –

70) Family number: 17686779 (DE9115663U1) © PatBase

Priority: DE19910015663U 19911218

Family:

Publication number	Publication date	Application number	Application date
DE9115663 U1	19920227	DE19910015663U	19911218

Probable Assignee: NEUMANN VOLKHARD W 6840 LAMPERTHEIM DE

Assignee(s): NEUMANN VOLKHARD W ; NEUMANN VOLKHARD W 6840 LAMPERTHEIM DE

International class (IPC 8–9): B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7): B60J11/00

CPC: B60J11/08

European class: B60J11/08

Classification Explorer

Abstract:
Source: DE9115663U1 (Claim 1) 1. Vereisungsschutzplane fuer Autoscheiben, dadurch gekennzeichnet, dass die Schutzplane (1) aus einer taschenfoermigen Folie (2) besteht, innerhalb derer, der Schutzplane (1) eine Steifigkeit und Faltbarkeit verleihende Einlagen (3) aufgenommen sind.

Machine translation: (Claim 1) 1 Ice protection plans for car windows, wherein the protective tarp (1) from a taschenfoermigen film (2) exists, within which are the protective tarp (1) a rigidity and pliability conferring deposits (3) was added.

0) US5116441A – GLASS REPAIR KIT AND METHOD OF USE

71) Family number: 30415611 (US5116441A) © PatBase

Title: GLASS REPAIR KIT AND METHOD OF USE

Priority:

AU19940074394 19940930
US19950431110 19950428
US19920881625 19920512
WO1991US06524 19910910
US19950459039 19950601
WO1994US12819 19941114
AU19950010906 19941114
US19930155454 19931119
US19900580075 19900910
US19970822657 19970324
US19960747239 19961112
EP19950901807 19941114
EP19950901807 19941114
US19930155452 19931119
US19950436155 19950508
US19950436591 19950508

Family:

Publication number	Publication date	Application number	Application date
AT194547 E	20000715	AT19940901807T	19941114
AU199189354 A1	19920330	AU19910089354	19910910
AU199474394 A1	19960418	AU19940074394	19940930
AU199510906 A1	19950606	AU19950010906	19941114
AU199897033 A1	19990318	AU19980097033	19981210
AU653374 B2	19940929	AU19910089354	19910910
AU696328 B2	19980910	AU19950010906	19941114
BRPI9408103 A	19970805	BR1994PI08103	19941114
CA2091340 AA	19930309	CA19912091340	19910910
CA2091340 C	19960423	CA19912091340	19910910
CA2176593 AA	19960514	CA19942176593	19941114
DE59405274 D1	19980326	DE19945005274	19941117
DE69425271 D1	20000817	DE19946025271	19941114
DE69425271 T2	20010208	DE19946025271T	19941114
DK0729410 T3	20001106	DK19940901807T	19941114
DK0729410 T3	20001106	DK19950901807T	19941114
EP0659391 A1	19950628	EP19940118113	19941117
EP0659391 B1	19980218	EP19940118113	19941117
EP0729410 A1	19960904	EP19950901807	19941114
EP0729410 A4	19970305	EP19950901807	19941114
EP0729410 B1	20000712	EP19950901807	19941114
EP1033233 A2	20000906	EP19990125753	19941114
EP1033233 A3	20010801	EP19990125753	19941114
NZ276595 A	19971124	NZ19940276595	19941114
US5116441 A	19920526	US19900580075	19900910
US5116441 B1	19931102	US19900580075	19900910
US5425827 A	19950620	US19930155452	19931119
US5429692 A	19950704	US19920881625	19920512
US5477761 A	19951226	US19950431110	19950428
US5512116 A	19960430	US19950459039	19950601
US5589018 A	19961231	US19950436591	19950508
US5614046 A	19970325	US19950436155	19950508
US6033507 A	20000307	US19970822657	19970324
US6187124 BA	20010213	US19960747239	19961112
WO9204173 A2	19920319	WO1991US06524	19910910
WO9204173 A3	19920416	WO1991US06524	19910910
WO9513922 A1	19950526	WO1994US12819	19941114

Probable Assignee: HOLTSCH MARIA EHEMALS HOLTSCH

Assignee(s):(std): CAMPFIELD JR RICHARD A ; CAMPFIELD RICHARD A ; HOLTSCH MARIA EHEMALS HOLTSCH ; ULTRA BOND LICENSING CORP ; RICHARD A CAMPFIELD ; HOLTSCH MARIA METALLWAREN ; ULTRA BOND LICENSING CORP GRAN

Assignee(s): ULTRA BOND LICENSING INC ; HOLTSCH METALLWARENHERSTELLUNG INH MARIA HOLTSCH 65232 TAUNUSSTEIN DE ; HOLTSCH METALLWARENHERSTELLUNG ; HOLTSCH METALLWARENHERSTELLUNG INH MARIA HOLTSCH ; ULTRA B O N D INC ; RICHARD A CAMPFIELD JR ; HOLTSCH METALLWARENHERSTELLUNG INH MARIA HOLTSCH 6 ; ULTRA BOND LICENSING GRAND JUNCTION CORP ; HOLTSCH MARIA EHEMALS HOLTSCH METALLWARENHERSTELLU ; HOLTSCH MARIA EHEMALS HOLTSCH METALLWARENHERSTELLUNG

Inventor(s):(std): CAMPFIELD RICHARD A ; HOLTSCH PETER ; RICHARD A CAMPFIELD ; ULTRA BOND LICENSING CORPORATI ; CAMPFIELD JR RICHARD A

Inventor(s): RICHARD A CAMPFIELD JR ; ULTRA BOND LICENSING GRAND JUNCTION CORP ; HOLTSCH PETER D 65232 TAUNUSSTEIN WINGSBACH DE ; ULTRA BOND LICENSING CORPORATION GRAND JUNCTION

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CS CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN SU SZ TD TG TJ TT UA UZ VN

International class (IPC 8–9): A61F15/00 B29C45/14 B29C73/02 B29C73/08 B32B17/10 B60S5/00 C03C27/10 (Advanced/Invention); A61F15/00 B29C73/00 B32B17/06 B60S5/00 C03C27/10 (Core/Invention)

International class (IPC 1–7): A61F15/00 B26D1/06 B29C45/14 B29C73/02 B32B17/10 B32B35/00 B60J1/00 B60S5/00 C03C27/10

CPC: Y10S83/955 Y10T83/4491 Y10T83/463 Y10T83/626 Y10T83/7507 Y10T83/8822 Y10T83/896 Y10T83/9478 Y10T83/9483 A61F15/002 B29L2031/3052 B29C73/025 B29C73/08 B32B17/10963

European class: A61F15/00B2 B29C73/02B B29C73/08 B32B17/10L18

US class: 156/166 156/180 156/181 156/94 156/940 206/582 264/136 264/140 264/151 264/257 264/320 264/322 264/36 264/36.21 30/339 425/12 425/13 425/36 83/221 83/276 83/399 83/455 83/614 83/649 83/699.11 83/699.31 83/955

Classification Explorer

Cited documents: US774314 A, US5792480 A, US5670180 A, US5643609 A, US5589018 A, US5429692 A, US5425827 A, US5328649 A, US5234325 A, US5116441 A, US5104304 A, US5028223 A, US4995798 A, US4954300 A, US4921411 A, US4820148 A, US4814185 A, US4775305 A, US4744841 A, US4597727 A, US4569808 A, US4047863 A, US3993520 A, US3765975 A, US2792885 A, US2251823 A, US1249221 A, GB292879 A, GB2088825 A1, FR2606000 A2, FR2590829 A2, FR2581915 A1, FR2541247 A3, DE9200572 U, DE9200572, DE2755921 A1, DE2542713 A1, DE2201396 A1, CA1214612 A1, AU8935491 A1, AU7760594 A1, AU7349494 A1,

Forward Citations: WO9742048, WO9513922, WO14005802, WO12158712, WO0160616, WO0010826, WO0010826, USD720589, USD452124, USD435211, US9526290, US9295297, US9051208, US8851284, US8721311, US8693102, US8591211, US8268104, US7993121, US7694615, US7184217, US7143677, US7125507, US7066071, US6870686, US6847492, US6777055, US6663371, US6561778, US6500366, US6485281, US6482488, US6461709, US6422849, US6338619, US6302670, US6190150, US6187124, US6180245, US6170894, US6139300, US6042353, US6024901, US5954901, US5952012, US5948331, US5904806, US5897882, US5897725, US5837294, US5792480, US5776506, US5670180, US5643610, US5643609, US5635116, US5614046, US5565217, US5512116, US5429692, US5425827, US5407338, US2014363583, US2013251831, US2010003424, US2009324850, US2008156414, US2008098866, US2007053757, US2007019300, US2006285218, US2006280824, US2005217121, US2005183979, US2005087285, US2005083582, US2005002108, US2004216579, US2004212894, US2004195929, US2004145813, US2004121105, US2004067272, US2003087054, US2002058080, KR101256722, ITTO20080884, GB2461587, GB2461587, GB2461587, GB2387381, GB2387381, GB2354032, GB2354032, EP1612041, EP0729410, AU673293,

Abstract:
Source: US5116441A A kit (150) of parts from which tools may be assembled for the repair of glass cracks by insertion of resin having an index of refraction substantially that of the glass. The tools are a repair bridge (160) and a repair bar (180) which may be placed on an automobile windshield and used to inject resin into a glass

crack and a crack spreader (170) which may be placed on the inside of a windshield and used to spread the crack to facilitate entry of the resin. Methods of use of the tools are disclosed.

0) DE9307757U1 – AUTOSCHEIBEN–SCHUTZABDECKUNG WINDSCREEN COVER ...

72) Family number: 17670032 (DE9307757U1) © PatBase

Title: Autoscheiben–Schutzabdeckung Windscreen cover (Machine translation)

Priority: DE19930007757U 19930521

Family:

Publication number	Publication date	Application number	Application date
DE9307757 U1	19930916	DE19930007757U	19930521

Probable Assignee: POHLAN ANDREAS

Assignee(s):(std)**:** POHLAN ANDREAS

Assignee(s): POHLAN ANDREAS 88046 FRIEDRICHSHAFEN DE

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J11/00

CPC: B60J11/08

European class: B60J11/08

Classification Explorer

Abstract:
Source: DE9307757U1 (Claim 1) SCHUTZANSPRUECHE 1. Schutzabdeckung fuer Autoscheiben aus Kunststoff gegen Eis, Schnee, Reif und Sonneneinstrahlung, wobei die Abdeckung – fast die gesamte Flaeche der Auto–scheiben (Windschutz–, Heck– und Seitenscheiben) abdeckt, – mit Haltebaendern und Gummisaugnaep– fen am Kfz befestigt und gegen Wind gesichert ist, – aus einem flexiblen, wetterbestaen– digem und lichtundurchlaessigem Kunststoffmaterial besteht.

Machine translation: (Claim 1) SCHUTZANSPRUECHE first Protective cover for automobile windows made of plastic against ice, snow, frost and sun, with the cover – slices car almost the entire surface of the (windshield, rear and side windows) covers – with Haltebaendern and Gummisaugnaep Fen–attached to the vehicle and against wind is secured, – from a flexible, weather–DIGEM and opaque plastic material.

0) US5445780A – ASSEMBLY OF A WINDSHIELD GLASS AND A WEATHER ST...

73) Family number: 12079999 (US5445780A) © PatBase

Title: ASSEMBLY OF A WINDSHIELD GLASS AND A WEATHER STRIP HAVING A PARTLY MODIFIED CROSS SECTION AND METHOD OF MANUFACTURING SAME

Priority:
EP19930306782 19930826 JP19920250545 19920826 JP19930179324 19930720
US19930109449 19930820 US19950413449 19950330 JP19980165090 19980612
US19970929916 19970915 US19960660885 19960610 US19950413620 19950330

Family:

Publication number	Publication date	Application number	Application date
DE69315642 D1	19980122	DE19936015642	19930826
DE69315642 T2	19980716	DE19936015642T	19930826
DE69330291 D1	20010705	DE19936030291	19930826
DE69330291 T2	20011206	DE19936030291T	19930826
DE9312831 U1	19931111	DE19930012831U	19930826
EP0585129 A1	19940302	EP19930306782	19930826
EP0585129 B1	19971210	EP19930306782	19930826
EP0800909 A1	19971015	EP19970106124	19930826
EP0800909 B1	20010530	EP19970106124	19930826
GB2271371 A1	19940413	GB19930017730	19930826
GB2271371 B2	19960103	GB19930017730	19930826
GB9317730 A0	19931013	GB19930017730	19930826
JP10315296 A2	19981202	JP19980165090	19980612
JP3016497 B2	20000306	JP19920250545	19920826
JP3340516 B2	20021105	JP19930179324	19930720
JP6071722 A2	19940315	JP19920250545	19920826
JP7032875 A2	19950203	JP19930179324	19930720
US5445780 A	19950829	US19930109449	19930820
US5528868 A	19960625	US19950413449	19950330
US5551855 A	19960903	US19950413620	19950330
US5776403 A	19980707	US19960660885	19960610
US5914083 A	19990622	US19970929916	19970915

Probable Assignee: TOKAI KOGYO CO LTD

Assignee(s):(std)**:** TOKAI KOGYO CO LTD

Assignee(s): TOKAI KOGYO K K ; TOKAI KOGYO K K OBU ; TOKAI KOGYO K K OBU AICHI JP ; TOKAI KOGYO KK ; TOKAI KOGYO KABUSHIKI KAISHA ; YADA YUKIHIKO ; ITO TOSHIKAZU

Inventor(s):(std)**:** YADA YUKIHIKO C O TOKAI KOGYO ; ITO TOSHIKAZU C O TOKAI KOGYO ; YADA YUKIHIKO ; ITO TOSHIKAZU

Inventor(s): YUKIHIKO YADA ; YADA YUKIHIKO C O TOKAI KOGYO KK ; YADA YUKIHIKO C O TOKAI KOGYO K K ; TOSHIKAZU ITO ; ITO TOSHIKAZU C O TOKAI KOGYO KK ; ITO TOSHIKAZU C O TOKAI KOGYO K K

Designated states: DE FR GB IT

International class (IPC 8–9)**:** B29C47/02 B29C47/12 B60J1/00 B60J1/02 B60J1/20 B60J10/00 B60J10/02 B60R13/07 (Advanced/Invention); B29K105/20 B29L31/30 (Advanced/Non–invention); B29C47/02 B60J1/00 B60J1/02 (Core/Invention)

International class (IPC 1–7)**:** B29C47/02 B29K105/20 B29L31/30 B60J1/00

CPC: Y10T428/24198 B29C47/003 B29C47/124 B60J1/2002 B60R13/07 B60J10/22 B60J10/25 B60J10/70 B29C47/026

European class: B29C47/02C2 B29C47/12C B60J1/20A B60J10/00D2 B60J10/00D6 B60J10/02 B60R13/07

US class: 156/107 156/108 156/244.11 156/244.25 156/500 264/135 264/167 264/177.16 264/252 264/259 264/265 296/93 425/113 425/128 425/145 425/376.1 425/465 428/122 52/208

Classification Explorer

Cited documents: US5507992 A, US5489409 A, US5474729 A, US5445780 A, US5362428 A, US5273704 A, US5229054 A, US5190338 A, US5183612 A, US5167893 A, US5162090 A, US5112101 A, US5110529 A, US5108526 A, US5069852 A, US5057265 A, US5009462 A, US5001876 A, US4960375 A, US4933032 A, US4916873 A, US4905432 A, US4890431 A, US4884380 A, US4765936 A, US4757659 A, US4439125 A, US4187068 A, JP64012912 A2, JP40012912, JP3128721 A2, GB2217375 A1, FR2668101 A1, FR2667273 A1, FR2657308 A1, EP0493068 A1, EP0482901 A1, EP0479677 A2, EP0412217 A1, EP0401091 A1, EP0371773 A2, EP0145443 A2,

Forward Citations: WO11112407, WO06027364, US9744707, US9718088, US9616457, US9604251, US9499028, US9289795, US9174519, US8865261, US8765041, US8734909, US8453699, US7883332, US7879278, US6607622, US6599386, US6521083, US6231327, US6203639, US6196615, US6170208, US6151847, US6095586, US6054001, US5950976, US5817268, US5795421, US5792405, US5776403, US5718470, US5656223, US5567368, US5554325, US2015258876, US2015217326, US2012138212, US2011223342, US2010015456, US2008217805, US2005087907, JP8230011, JP3555220, GB2309662, GB2309662, FR2744053, EP1833653, EP0881113, EP0707937, DE19627053, DE19604397, CN103100824,

Abstract:
Source: US5445780A In the assembly of a windshield glass and a weather strip having a partly modified cross section the weather strip is extruded along the peripheral edge of the windshield glass and fixedly adhered thereto, a movable die 132 of a die assembly is properly moved so as to change the shape of an orifice of the die assembly.

0) US5331784A – VEHICULAR PANEL ASSEMBLY AND METHOD FOR MAKING ...

74) Family number: 29362000 (US5331784A) © PatBase

Title: VEHICULAR PANEL ASSEMBLY AND METHOD FOR MAKING SAME

Priority: CA19932095380 19930503 US19920897764 19920612 US19930146731 19931029 US19950460841 19950605

Family:

Publication number	Publication date	Application number	Application date
CA2095380 AA	19931213	CA19932095380	19930503
DE69305921 D1	19961219	DE19936005921	19930611
DE69305921 T2	19970605	DE19936005921	19930611
EP0576180 A1	19931229	EP19930304569	19930611
EP0576180 B1	19961113	EP19930304569	19930611
JP6297940 A2	19941025	JP19930159975	19930607
MX9302914 A1	19940228	MX19930002914	19930519
US5331784 A	19940726	US19920897764	19920612
US5440849 A	19950815	US19930146731	19931029
US5611180 A	19970318	US19950460841	19950605

Probable Assignee: DONNELLY CORP

Assignee(s):(std)**:** AGRAWAL RAJ K ; CRANK DOUG ; DONELLY CORP ; DONNELLY CORP

Assignee(s): DONNELLY CORP HOLLAND MICH US ; DONNELLY A CORP OF MI CORP ; AGRAWAL RAJ KUMAR

Inventor(s):(std)**:** CRANK DOUG ; CRANK DOUGLAS ; DAGURASU KURANKU ; DOUGLAS CRANK ; RAAJI KEI AAGURAUOORU ; RAJ K AGRAWAL ; AGRAWAL RAJ K

Inventor(s): AGRAWAL RAJ KUMAR ; CRANK DOUGLAS HOLLAND MICHIGAN 49423 US

Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: DE ES FR GB IT SE

International class (IPC 8–9)**:** B29C65/00 B29C65/02 B29C65/14 B29C65/48 B60J1/00 B60J1/02 B60J10/00 B60J10/02 (Advanced/Invention); B29C35/08 B29C65/48 B29L31/30 (Advanced/Non–invention)

International class (IPC 1–7)**:** B29C65/02 B29C65/48 B29L31/30 B32B31/20 B60J1/00 B60J1/02 E04B1/62

CPC: B29C65/1412 B29C65/1425 B29C65/1435 B29C65/1441 B29C65/1467 B29C65/1483 B29C66/4722 B29C66/7465 B29C2035/0822 B29C65/7847 B29C66/474 B29C66/91212 B29C66/91216 B29C66/91221 B29C66/91411 B29C66/91445 B29C66/91641 B29C66/91645 B29C65/483 B29C65/4865 B29C65/48 B29C66/961 B29C66/1122 B29C66/82661 B29C66/8322 B29C66/71 B29C66/7392 B60J10/30 B60J10/70 B60J1/10 B29K2995/0027 B29C66/0242

European class: B29C65/00T40 B29C65/14 B29C65/14A8 B29C66/024 B29C66/47 B29C66/4722 B29C66/82 B60J1/10 B60J10/00G B60J10/02 L29C35/08B3 L29C65/14A6 L29C65/48

US class: 156/108 52/393

Classification Explorer

Cited documents: US5064494 A, US5062248 A, US5061429 A, US5057354 A, US5057265 A, US4994315 A, US4938521 A, US4933032 A, US4932712 A, US4910071 A, US4879853 A, US4799344 A, US4777699 A, US4681794 A, US4635415 A, US4625459 A, US4606159 A, US4571278 A, US4364214 A, US4247510 A, US4167259 A, US4139234 A, US3916055 A, US3879241 A, US3837984 A, US3574024 A, US3478475 A, GB451507 A, EP0371810 A2, EP0163194 A2,

Forward Citations: WO15137030, US9126474, US9082913, US9049929, US8668989, US8627692, US8435371, US8322073, US8276409, US8235452, US8048529, US8006445, US7968823, US7838115, US7607248, US7588652, US7435371, US7383649, US7360338, US7344059, US7332225, US6899935, US6862851, US6793120, US6764638, US6760986, US6607622, US6599386, US6595525, US6523983,

US6521083, US6431549, US6413347, US6293609, US6287402, US6203639, US6116678, US6089646, US6086138, US6054001, US5976292, US5941022, US5822932, US5807515, US5804018, US5793648, US5787643, US5772822, US5635281, US5591528, US5520761, US2012262040, US2011220639, US2011184695, US2011133366, US2011101838, US2010107497, US2009260742, US2008250680, US2008110110, US2008099136, US2007285819, US2006207131, US2006012080, US2004217620, US2004209087, US2004148826, US2003214146, US2003178394, US2003168889, TWI329580, JP4201187, JP2006525153, JP2005104331, EP0936096, EP0742762, DE102006010824,

Abstract:
Source: US5331784A A panel assembly and method of manufacturing the panel assembly, especially adapted for use in vehicle panels, include locating a preformed gasket in a support fixture in a predetermined pattern to be bonded to a sheet−like panel. The gasket is formed from a polymeric material separately from the panel. The panel is of appropriate size and geometry to fit within a desired vehicle opening. At least one panel surface to receive the gasket is prepared by being primed with a bonding reagent. The panel and primer may be preheated before receiving the gasket to drive off remaining carriers/solvents and improve the bonding process. The panel and preset gasket are pressed together such that the securing flange is in intimate contact with the panel. Locator pins may be used to properly position the panel with respect to the gasket. Once located, heat and pressure are applied, preferably substantially simultaneously, the heat being applied from a side opposite the primed surface, preferably by focused or tuned infrared irradiation.

0) DE9314956U1 – ABDECKPLANE FUER KRAFTFAHRZEUGE, INSBESONDERE P...

75) Family number: 17682087 (DE9314956U1) © PatBase

Title: Abdeckplane fuer Kraftfahrzeuge, insbesondere Personenkraftwagen Cover for motor vehicles, especially passenger cars (Machine translation)

Priority: DE19930014956U 19931002

Family:

Publication number	Publication date	Application number	Application date
DE9314956 U1	19940210	DE19930014956U	19931002

Probable Assignee: FRANK WALTER

Assignee(s):(std): FRANK WALTER

Assignee(s): FRANK WALTER 97980 BAD MERGENTHEIM DE

International class (IPC 8–9): B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7): B60J11/00

CPC: B60J11/02 B60J11/025

European class: B60J11/02 B60J11/02A

Classification Explorer

Forward Citations: EP1985486, DE102006022036,

Abstract:
Source: DE9314956U1 (Claim 1) S C H U T Z A N S P R UE C H E 1. Abdeckplane (1, 1') fuer Kraftfahrzeuge (5), insbesondere Personenkraftwagen, dadurch gekennzeichnet, dass die Abdeckplane (1, 1') einen etwa rechteckigen Zuschnitt aufweist, um eine quer zur Fahrtrichtung orientierte Achse aufrollbar ausgebildet ist und im Bereich ihres Umfangs mit einem oder mehreren Befestigungsbaendern (12,29) zum Einklemmen an Fahrzeugtueren (30), Heckklappe und/oder Kofferraum (4) versehen ist.

Machine translation: (Claim 1) SCHUTZANSPR UE CHE first Cover (1, 1 ') for motor vehicles (5), especially passenger cars, wherein the tarpaulin (1, 1') is an approximately rectangular blank has to make a transverse to the direction oriented axis is formed rolled up and in the range of the scale with one or more Befestigungsbaendern (12.29) for clamping to Fahrzeugtueren (30), tailgate and / or trunk (4) is provided.

0) DE9400150U1 – ZUGLUFT–UMLENKSCHEIBE DRAFT–DEFLECTING (MACHI...

76) Family number: 17687182 (DE9400150U1) © PatBase

Title: Zugluft–Umlenkscheibe Draft–deflecting (Machine translation)

Priority: DE19940000150U 19940107

Family:

Publication number	Publication date	Application number	Application date
DE9400150 U1	19940331	DE19940000150U	19940107

Probable Assignee: THOENE HERMANN

Assignee(s):(std)**:** THOENE HERMANN

Assignee(s): THOENE HERMANN 67071 LUDWIGSHAFEN DE

International class (IPC 8–9): B60H1/26 B60J1/20 (Advanced/Invention); B60H1/24 B60J1/20 (Core/Invention)

International class (IPC 1–7): B60H1/24 B60J1/20

CPC: B60H1/267 B60J1/20

European class: B60H1/26C B60J1/20

Classification Explorer

Abstract:
Source: DE9400150U1 (Claim 1) 1. Zugluft–Umlenkscheibe, gekennzeichnet durch eine Scheibe (3), welche zwischen einem Luftspalt zwischen Fenster und Tuerrahmen eines Autos schwenkbar eingestellt werden kann.

Machine translation: (Claim 1) 1 Draft–deflecting, characterized by a disc (3), which can be set pivotable between an air gap between the window and door frames of a car.

0) US5320392A – REMOVABLY ATTACHABLE VEHICLE BODY PROTECTION PA...

77) Family number: 11602536 (US5320392A) © PatBase

Title: Removably attachable vehicle body protection pad

Priority: US19930047977 19930419

Family:

Publication number	Publication date	Application number	Application date
US5320392 A	19940614	US19930047977	19930419

Probable Assignee: HART DAVID M

Assignee(s):(std)**:** HART DAVID M

Inventor(s):(std)**:** HART DAVID M

International class (IPC 8–9)**:** B60R13/04 (Advanced/Invention)

International class (IPC 1–7)**:** B60J11/00

CPC: B60R13/04

European class: B60R13/04

US class: 280/770 293/120 293/128

Classification Explorer

Cited documents: US5129695 A, US5112092 A, US4828303 A, US4750767 A, US4708380 A, US4561685 A, US4531560 A, US4498697 A, US4493502 A, US4221412 A, US4014583 A, US3147176 A, US2734765 A, FR1077058 A, DE511441 A, CA689935 A,

Forward Citations: WO16159786, WO12155221, USD653178, USD490754, US9771032, US9499112, US9283700, US8393658, US8287791, US8201860, US8118338, US7374214, US7229108, US7090266, US7090266, US6955383, US6769725, US6572163, US6572086, US6406080, US6311451, US5975599, US5956918, US5669745, US5527139, US2017113530, US2017106732, US2015001865, US2015001838, US2012118680, US2011266832, US2011151178, US2011151177, US2011127782, US2010140966, US2010007169, US2009140533, US2009026776, US2008258482, US2007278804, US2007158963, US2007108780, US2006197348, US2005099026, US2004113455, US2004075295, US2003209914, GB2437722, GB2385029, EP1193025, AT2473,

Abstract:
Source: US5320392A The present invention is a removably attachable vehicle body protection pad which is designed to be placed on the doors of a vehicle in a removable fashion when the vehicle is parked, so that the vehicle is protected when people in adjacent vehicles open their doors. The present invention provides a protection for the vehicle from being scratched or dented by other vehicles. The removably attachable pad includes an impact absorbent member having a fabric front surface and a plastic back surface, one or more magnetic strips for attaching the pad to a vehicle body, and one or more handle holes for holding the pad and fastening a security cable.

78) Family number: 9724126 (US5489104A) © PatBase

Title: SEALING ARRANGEMENT HAVING INFLATION AND SUCTION CHAMBERS

Priority: GB19920026743 19921222

Family:

Publication number	Publication date	Application number	Application date
DE69310691 D1	19970619	DE19936010691	19931130
DE69310691 T2	19980108	DE19936010691T	19931130
EP0604033 A2	19940629	EP19930309551	19931130
EP0604033 A3	19941228	EP19930309551	19931130
EP0604033 B1	19970514	EP19930309551	19931130
ES2101246 T3	19970701	ES19930309551T	19931130
GB2273733 A1	19940629	GB19920026743	19921222
GB2273733 B2	19960501	GB19920026743	19921222
GB9226743 A0	19930217	GB19920026743	19921222
US5489104 A	19960206	US19930170515	19931220

Probable Assignee: DRAFTEX IND LTD

Assignee(s):(std)**:** DRAFTEX IND LTD

Assignee(s): DRAFTEX INDUSTRIES LIMITED ; DRAFTEX INDUSTRIES LTD ; DRAFTEX INDUSTRIES LTD EDINBURGH MIDLOTHIAN GB ; DRAFTEX IND

Inventor(s):(std)**:** WOLFF HELMUT

Inventor(s): HELMUT WOLFF ; WOLFF HELMUT D 2000 HAMBURG 70 DE

Designated states: DE ES FR IT

International class(IPC 8–9)**:** B60J10/00 (Advanced/Invention); B60J10/00 (Core/Invention)

International class(IPC 1–7)**:** B60J10/00 B60J10/04 B60J10/04 E06B7/16 E06B7/23 F16J15/46

CPC: Y10S277/921 B60J10/84 B60J10/244 B60J10/248 B60J10/77

European class: B60J10/00D5C B60J10/00D5E B60J10/04E B60J10/08B

US class: 277/184 277/34 277/646 277/648 277/921 49/477.1 49/498.1

Classification Explorer

Cited documents: US5339488 A, US5253453 A, US5085005 A, US5072545 A, US5046285 A, US4976067 A, US4870783 A, US4761917 A, US4469355 A, US3831950 A, US2910209 A, GB950062 A, GB2244078 A1, GB2223258 A1, GB2221487 A1, GB2067637 A1, GB1550300 A, EP0486163 A1, EP0330771 A1, DE4112294 A1, DE2211896 A1,

Forward Citations: WO9959831, WO9959831, WO17109324, WO08110232, WO05089186, WO05089186, US8887445, US8555552, US8291645, US8181397, US8109042, US7624537, US7594359, US7461884, US7219899, US7104583, US6932415, US6846034, US6702301, US6601346, US6499795, US6244601, US6099068, US6098992, US5944324, US5870860, US2015210374, US2013055642, US2013047519, US2010132264, US2009183435, US2009007493, US2006112645, US2006108747, US2006010779, US2005200160, US2005199440, US2005198907, US2005046124, GB2355279, GB2355278, GB2321266, GB2321266, FR3046116, FR2847520, FR2788732, FR2738278, EP1260395, EP1260395, EP1024044, EP0854062, DE19946251, DE19820478, DE19820478, DE112005000573,

Abstract:
Source: US5489104A A sealing arrangement is shown for providing enhanced sealing for the edge of a window pane for the window opening in the upper part of the door of a vehicle body. In the case where the door carries no frame for the window, the sealing arrangement is carried by the frame of the door opening. The sealing arrangement comprises longitudinally extending lips defining a shallow groove between them, and in the base of which groove are formed apertures. When the window pane is in the closed position, suction is applied to the groove through holes in its base, and ensures that the lips are in enhanced sealing and supporting contact with

the periphery of the window glass. The lips and the groove are formed in an outside wall of a chamber to which pressure can be applied so as to force the lips towards the window pane. The pressure in the chamber and the suction in the chamber can be controlled in synchronism with the raising and lowering of the window pane and with the opening and closing of the door.

0) US5544458A – VEHICLE PANEL ASSEMBLY

79) Family number: 29343370 (US5544458A) © PatBase

Title: VEHICLE PANEL ASSEMBLY

Priority: US19930027078 19930305 US19950504398 19950719 WO1994US02217 19940301 US19950505483 19950721

Family:

Publication number	Publication date	Application number	Application date
CA2157477 AA	19950901	CA19942157477	19940301
EP0686227 A1	19951213	EP19940911438	19940301
EP0686227 A4	19971217	EP19940911438	19940301
JP8507482 T2	19960813	JP19940520116T	19940301
US5544458 A	19960813	US19930027078	19930305
US5665397 A	19970909	US19950505483	19950721
US5807515 A	19980915	US19950504398	19950719
WO9420721 A1	19940915	WO1994US02217	19940301

Probable Assignee: DONNELLY CORP

Assignee(s):(std)**:** DONNELLY CORP

Assignee(s): FISHER DANIEL J ; HOFFMAN ERIC L ; HOULE SABINA J ; VELDMAN ROGER L ; LOVELL MARC A ; AGRAWAL RAJ K ; BRODIE JAMES L ; CONNELLY CORP ; CRANK DOUGLAS

Inventor(s):(std)**:** CRANK DOUGLAS ; FISHER DANIEL J ; HOFFMAN ERIC L ; HOLMAN ERIC L ; HOULE SABINA J ; LOVELL MARC A ; VELDMAN ROGER L ; AGRAWAL RAJ K ; BRODIE JAMES L

Inventor(s): CLARK DOUGLAS

Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE

International class (IPC 8–9): B29C45/14 B29C47/02 B29C70/76 B32B3/26 B32B7/10 B60J1/00 B60J10/00 B60J10/02 E06B3/54 E06B3/62 (Advanced/Invention); B29C45/14 B29C70/00 B32B7/10 B60J1/00 B60J10/00 B60J10/02 E06B3/54 E06B3/58 (Core/Invention)

International class (IPC 1–7): B29C41/00 B29C45/14 B29C47/02 B32B3/26 B32B7/10 B60J1/00 B60J1/10 B60J10/02 E06B3/54 E06B3/62

CPC: Y10S425/047 B60J10/30 B60J10/70 B29C45/14434 B29C70/763 B29K2105/0097 B29K2709/02 B60J1/10

European class: B29C45/14F8 B29C70/76A B60J1/10 B60J10/00G B60J10/02 L29K105/00P L29K709/02

US class: 156/245 249/93 249/95 264/135 264/259 264/265 264/271.1 264/275 264/276 296/84.1 296/90 296/93 425/116 425/127 425/552 425/556 425/DIG.47 52/204.591 52/204.62 52/208

Classification Explorer

Cited documents: WO8600262 A1, US5635281 A, US5413748 A, US5338501 A, US5331784 A, US5330339 A, US5268183 A, US5200202 A, US5158638 A, US5061429 A, US5044912 A, US4963413 A, US4925511 A, US4915395 A, US4894972 A, US4885121 A, US4879853 A, US4854599 A, US4839122 A, US4830804 A, US4793785 A, US4792425 A, US4700525 A, US4688752 A, US4662113 A, US4626185 A, US4584155 A, US4571278 A, US4470786 A, US4364214 A, US4284673 A, US4139234 A, US4093304 A, US3797984 A, US3659896 A, US3427776 A, US3381340 A, JPS6456516, JPS6434713, JPS63283918, JPS5924884, JPS56154025, JP64056516 A2, JP64034713 A2, JP63283918 A2, JP59024884 A2, JP56154025 A2, JP3070626 A2, JP2258844 A2, JP2182424 A2, JP1122723 A2, JP1122722 A2, JP1110114 A2, GB695257 A, GB2147244 A1, GB2141375 A1, GB2132130 A1, GB2115049 A1, EP0382602 A1, EP0276866 A2, DE3140366 A1, DE3020906 A1, DE1945291 A1,

Forward Citations: WO12057820, WO09103060, WO08077042, WO0147681, WO0046055, WO0046055, US9193880, US9126474, US9114556, US9049929, US8931821, US8758544,

US8668989, US8388043, US8322073, US8273801, US8235452, US8080299, US8048529, US7955696, US7838115, US7823963, US7781493, US7754128, US7588652, US7360338, US7332225, US7266507, US7225595, US7171794, US7062889, US6971702, US6890468, US6871450, US6862851, US6824868, US6789836, US6783347, US6766206, US6738810, US6558596, US6485082, US6474970, US6471276, US6413347, US6332923, US6298606, US6293609, US6276741, US6206681, US6199933, US6195648, US6136427, US6136122, US6128860, US6120274, US6116678, US6089646, US6086138, US6022210, US6000746, US5966874, US5916600, US5887393, US5704173, US2012076888, US2012074618, US2011045123, US2010316828, US2010107497, US2008213545, US2008152926, US2008145564, US2007252410, US2007145231, US2006287408, US2006210778, US2006191225, US2006186777, US2006157890, US2005121942, US2005091935, US2005052048, US2004177034, US2004176978, US2003214146, US2003203167, US2003182896, US2003140596, US2002123964, EP0892209, EP0892209, DE102012112181, AU2003228745,

Abstract:
Source: US5544458A A single−sided gasketed panel assembly for use as a flush−mounted panel or window in vehicles, buildings, or other structures, as well as a method and apparatus for making such panel assemblies, wherein the panel assembly comprises a sheet−like panel having; a primer layer and at least one polymeric gasket molded to the panel on the primer layer. The primer applied to the panel has a predetermined transition temperature above which improved adhesion properties are exhibited for polymeric gaskets molded thereon when the primer is at or above such temperature. In a preferred embodiment, a gasket is molded from a thermoplastic polymeric material such as PVC onto the primed portion of the panel while the panel is at or above the transition temperature. The resulting bond between the gasket and panel can withstand a shear force greater than 300 pounds per square inch at a rate of 25 millimeters per minute and a 180 DEG peel test force greater than 30 pounds per linear inch at a rate of 25 millimeters per minute after soaking for at least 250 hours in water having a temperature greater than 175 DEG F. The method for manufacturing the panel assembly includes applying a primer having a predetermined transition temperature as a coating to a surface of a panel, heating the panel and primer coating to a temperature at least equal to the transition temperature of the primer, and molding a gasket, preferably of a thermoplastic polymeric material, onto the surface of the heated panel and the primer coating while the temperature of the primer coating is at least equal to the primer transition temperature. The preferred mold assembly includes a mold cavity defined in a facing surface of one mold section and a heat insulative pad in the second mold section, the pad being urged against the surface of a sheet−like panel at a position opposite the mold cavity when the mold sections are closed.

0) WO9425303A1 – PORTABLE CAR COVER ASSEMBLY AGENCEMENT PORTATI...

80) Family number: 8472572 (WO9425303A1) © PatBase

Title: PORTABLE CAR COVER ASSEMBLY

Priority: AU1993PL08449 19930423 AU1993PM01174 19930910 WO1994AU00209 19940422 AU19940065607 19940422

Family:

Publication number	Publication date	Application number	Application date
AU199465607 A1	19941121	AU19940065607	19940422
WO9425303 A1	19941110	WO1994AU00209	19940422

Probable Assignee: GUY CHRISTOPHER MERVYN

Assignee(s):(std)**:** CHRISTOPHER MERVYN GUY ; GUY CHRISTOPHER MERVYN

Inventor(s):(std)**:** GUY CHRISTOPHER MERVYN

Inventor(s): CHRISTOPHER MERVYN GUY

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KG KP KR KZ LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA US UZ VN

International class (IPC 8–9): B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7): B60J11/00

CPC: B60J11/00

European class: B60J11/00

Classification Explorer

Cited documents: US4971384 A, FR2586380 A1, FR2413985 A1, DE3500693 A1, DE2731951 A1, AU9035282 A1, AU6131580 A1, AU5749790 A1, AU5124879 A1, AU3232584 A1, AU3042377 A1, AU1852992 A1, AU1411488 A1,

Forward Citations: WO15021568, WO11000157, WO08006857, WO07099384, WO05039913, ITBA20090040, EP1878601, EP1621387, EP1068975, EP0876931, EP0876931, CN105658457,

Abstract:
Car cover assembly (10) includes an elongate housing (11) containing windable rollers around which cover strips or sheets (22, 23) are stored and which can be withdrawn or retracted from the housing (11) through edge openings (20, 21). The housing (11) can be releasably mounted across a car roof (13) by lockable mounting means. Suction–type releasable fastener means (28) along the free edges of sheets (22, 23) allow attachment of the edges at a desired location to the car away from the housing (11). A stand–off frame means (30) connected to the housing beneath edge openings (20, 21), to extend or retract on either side of the housing (11), includes a transverse terminal member (31) on each side of the housing, connected to the housing (11) by a pair of folding linkage assemblies (32) to allow it to extend from the housing while remaining parallel thereto. The frame means (30) provides a gap and is held between the cover sheets (22, 23) and the roof (13) by the sheets (22, 23) when the latter is secured by the fastener means (28).

0) US5616891A – SEALING PANEL, IN PARTICULAR FOR AUTOMOBILES, I...

81) Family number: 20362347 (US5616891A) © PatBase

Title: Sealing panel, in particular for automobiles, including a loudspeaker housing

Priority: FR19930014731 19931208 WO1994FR01428 19941207

Family:

Publication number	Publication date	Application number	Application date
DE69403050 D1	19970612	DE19946003050	19941118
DE69403050 T2	19980102	DE19946003050T	19941118
EP0657325 A1	19950614	EP19940402633	19941118
EP0657325 B1	19970507	EP19940402633	19941118
ES2104311 T3	19971001	ES19940402633T	19941118
FR2713561 A1	19950616	FR19930014731	19931208
FR2713561 B1	19960202	FR19930014731	19931208
JP8506784 T2	19960723	JP19950514890T	19941207
JP8506784 T2	19960723	JP19940514890T	19941207
JP8506784 T2	19960723	JP19940514890	19941207
US5616891 A	19970401	US19950481363	19950707
WO9515870 A1	19950615	WO1994FR01428	19941207

Probable Assignee: PLASTO SA

Assignee(s):(std)**:** FUMEY FRANCK ; PLASTO SA

Assignee(s): PLASTO S A ; PLASTO S A CHENOVE FR

Inventor(s):(std)**:** FUMEY FRANCK ; FRANCK FUMEY

Inventor(s): FUMEY FRANCK F 21000 DIJON FR

Designated states: DE ES GB IT JP SE US

International class(IPC 8–9)**:** B60R11/02 H04R1/00 H04R1/02 (Advanced/Invention); B60R11/00 (Advanced/Non–invention); B60R11/02 H04R1/00 H04R1/02 (Core/Invention); B60R11/00 (Core/Non–invention)

International class(IPC 1–7)**:** B60J10/08 B60R11/02 H04R1/00 H04R1/02 H05K5/00

CPC: B60R11/0217 B60R2011/0021 B60R2011/0045

European class: B60R11/02D L60R11/00P1H2 L60R11/00R2A

US class: 181/141 181/150

Classification Explorer

Cited documents: US5414229 A, US5117938 A, US4928788 A, US4905860 A, US4853966 A, US4790407 A, US4337380 A, US4277653 A, JP63287296 A2, JP63287296, JP5238263 A2, JP5238263, DE3817848 C1, DE3817848 A1, DE3510018 A1, DE3220779 A1, DE2724631 A1,

Forward Citations: US9089355, US8175308, US2008013767, US2005059988, US2005059987, US2004006926, FR2738703,

Abstract:
Source: US5616891A PCT No. PCT/FR94/01428 Sec. 371 Date Jul. 7, 1995 Sec. 102(e) Date Jul. 7, 1995 PCT Filed Dec. 7, 1994 PCT Pub. No. WO95/15870 PCT Pub. Date Jun. 15, 1995A sealing panel for automobile doors maintains weather–tight characteristics without degrading the acoustic response of a loudspeaker mounted in the panel. The panel includes a cup–shaped loudspeaker housing having a back which is provided with cells. The cells prevent reflection of sound radiated from the rear of the loudspeaker. The cells are open at one end, where they interface with the back of the loudspeaker housing, and the opposite ends of the cells have at least one opening therein. The panel is made from a sheet material such as a thermosetting plastic. The cells may be frustoconical with an average diameter between 3–20 mm and a depth of about 3–25 mm.

0) US5493814A – WEATHERSTRIP ASSEMBLY INCLUDING A GLASS RUN CHA...

82) Family number: 9407248 (US5493814A) © PatBase

Title: WEATHERSTRIP ASSEMBLY INCLUDING A GLASS RUN CHANNEL AND BELT WEATHERSTRIP WITH DECORATIVE COVER

Priority: CA19952147067 19950413 US19940228657 19940418

Family:

Publication number	Publication date	Application number	Application date
BRPI9501375 A	19951114	BR1995PI01375	19950417
CA2147067 AA	19951019	CA19952147067	19950413
CA2147067 C	20051206	CA19952147067	19950413
DE69508132 D1	19990415	DE19956008132	19950418
DE69508132 T2	19990701	DE19956008132T	19950418
EP0678412 A1	19951025	EP19950302543	19950418
EP0678412 B1	19990310	EP19950302543	19950418
JP8048147 A2	19960220	JP19950092628	19950418
KR100373545 B1	20040429	KR19950009335	19950417
KR19950031582 A	19951218	KR19950009335	19950417
US5493814 A	19960227	US19940228657	19940418

Probable Assignee: COOPER STANDARD AUTOMOTIVE INC

Assignee(s):(std)**:** STANDARD PRODUCTS CO

Assignee(s): DEUTSCHE BANK TRUST OF CO ; STANDARD PROD CO THE ; DEUTSCHE BANK TRUST OF CO AMERICAS A COLLATERAL AGENT ; STANDARD PRODUCTS CO CLEVELAND OHIO US ; STANDARD PROD CO ; STANDARD PRODUCTS CO THE ; THE STANDARD PRODUCTS COMPANY ; THE STANDARD PRODUCTS COMPANY CLEVELAND OHIO US ; STANDARD PRODUCTS COMPANY THE ; BANK OF AMERICA NA AGENT AS ; CHRISTIAN WILLARD CARSON ; COOPER STANDARD AUTOMOTIVE INC ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS

Inventor(s):(std)**:** CHRISTIAN WILLARD C ; CHRISTIAN WILLARD CARSON ; UIRAADO KAASON KURISUCHIYAN

Inventor(s): WILLARD CARSON CHRISTIAN ; CHRISTIAN WILLARD CARSON LAMBERTVILLE MICHIGAN 481 ; CHRISTIAN WILLARD CARSON LAMBERTVILLE MICHIGAN 48144 US ; CHRISTIAN WILLARD CARSON LAMBERTVILLE MICHIGAN...

Agent(s): MACRAE AND CO

Designated states: DE FR GB

International class (IPC 8–9): B60J1/02 B60J10/00 B60J10/04 B60J10/06 B60J10/08 (Advanced/Invention); B60J1/02 (Advanced/Non–invention); B60J10/00 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J1/02 B60J10/04 B60J10/06 B60J5/00 E06B7/16

CPC: B60J10/79 B60J10/21 B60J10/233 B60J10/265 B60J10/32 B60J10/75 B60J10/76

European class: B60J10/00D1 B60J10/00D3B B60J10/00D7B B60J10/00G1 B60J10/04 B60J10/04B B60J10/06

US class: 49/377 49/440 49/479.1 49/490.1 49/506

Classification Explorer

Cited documents: US5353549 A, US5311711 A, US5207027 A, US5170586 A, US5151307 A, US5042201 A, US5014464 A, US5010689 A, US4975306 A, US4956943 A, US4951418 A, US4910918 A, US4888929 A, GB2216936 A1, EP0499530 A1, EP0385028 A1, EP0384851 A2, EP0355948 A2, DE3912897 A1,

Forward Citations: WO09012570, WO08157332, WO08037906, WO07135329, WO05103426, WO0115926, US9151107, US9126472, US9032668, US8839564, US8689489, US8661736,

US8479449, US8458959, US8429855, US8327584, US8266841, US8205389, US8001727, US7118169, US7118169, US7069697, US7052021, US6996936, US6968649, US6742304, US6725605, US6681526, US6652952, US6612074, US6446392, US6260254, US6141854, US6082048, US2013097936, US2012079772, US2012060422, US2012023829, US2011308170, US2011219700, US2011099912, US2010186301, US2010052359, US2009265999, US2009071077, US2009064592, US2009025300, US2008216412, US2007125004, US2007101656, US2006005469, US2005235569, US2005189780, US2004036234, US2003150168, GB2372529, GB2372529, GB2312460, GB2312460, FR3002882, FR2906189, FR2901187, EP2127854, EP1522445, EP1245421, EP0737829, DE102011011111, DE102011011111, CN103660867, CN103660867, CN102398500, CN102398500,

Abstract:
Source: US5493814A A weatherstrip assembly for an automotive vehicle including a glass run channel formed to shape and provided with a rigid decorative covering. Additionally, a belt weatherstrip is provided which includes a linear portion and an integrally extending tail portion, wherein the tail portion includes a rounded periphery and a substantially flat inner wall which abuts the glass run channel upon attachment.

0) US5503451A – ADJUSTABLE WINDOW MOUNTING VEHICLE ACCESSORY

83) Family number: 24044773 (US5503451A) © PatBase

Title: ADJUSTABLE WINDOW MOUNTING VEHICLE ACCESSORY

Priority: US19940315936 19940930 US19960670627 19960626

Family:

Publication number	Publication date	Application number	Application date
US5503451 A	19960402	US19940315936	19940930
USRE36059 E	19990126	US19960670627	19960626

Probable Assignee: THOMAS WYMAN R

Assignee(s):(std)**:** THOMAS WYMAN R

Inventor(s):(std)**:** THOMAS WYMAN R

International class (IPC 8–9): B60N2/46 B60R21/02 B60R7/04 (Advanced/Invention)

International class (IPC 1–7): B60J9/00 B60R11/00

CPC: B60N2/46 B60N2/4666 B60R7/046 B60R21/02 B60R2021/0293 Y10S224/926

European class: B60N2/46 B60N2/46D2 B60R21/02 B60R7/04D L60R21/02V

US class: 224/482 224/901 224/901.8 224/926 296/153 297/411.22

Classification Explorer

Cited documents: US5031808 A, US5004292 A, US4953765 A, US4950023 A, US4890878 A, US4877284 A, US4865237 A, US4863134 A, US4810026 A, US4512504 A, US4456644 A, US4418733 A, US4154383 A, US3151649 A, US3145848 A, US2877049 A, US2670235 A, US1873414 A, US1426787 A, US1329487 A, FR1109991 A, FR1016138 A, DE3742540 A1,

Forward Citations: WO03080387, USD427765, US7131620, US6796601, US2007039750, US2005061944, US2004075297, GB2427855, DE10245697,

Abstract:
Source: US5503451A Disclosed is an adjustable vehicle arm rest support system structured around a pair of nylon straps which anchor to a vehicle window frame. First ends of the nylon straps are inserted in the window frame between the glass and window gasket. The nylon straps extend down the interior door wall adjacent to the driver or passenger. Attached to the straps is a rest pad for resting the arm and a fully adjustable elbow rest which may be raised, lowered, tilted or removed. Either of these pads can be used as a side wall impact pad for protecting the driver or passenger. Each of the pads and the pouch are continuously adjustable vertically and horizontally, and are also tiltable. Also disclosed is a beverage container support and a padded pouch that is adjustably mountable on the straps. The straps also support a beverage holder and a padded pouch, useful for storing coins, gloves, eye glasses and the like.

0) US5542214A – FLUSH–CLOSING MULTI–PANE WINDOW ASSEMBLY FOR MO...

84) Family number: 10686865 (US5542214A) © PatBase

Title: FLUSH–CLOSING MULTI–PANE WINDOW ASSEMBLY FOR MOTOR VEHICLES

Priority: US19950369345 19950106 US19960624130 19960329 US19960721909 19960927 US19960757355 19961127 US19960726055 19960927

Family:

Publication number	Publication date	Application number	Application date
US5542214 A	19960806	US19950369345	19950106
US5724769 A	19980310	US19960624130	19960329
US5724769 C1	20110322	US19960624130	19960329
US5775029 A	19980707	US19960721909	19960927
US5822922 A	19981020	US19960757355	19961127
US5836110 A	19981117	US19960726055	19960927

Probable Assignee: DURA OPERATING CORP

Assignee(s):(std)**:** EXCELL IND INC ; EXCEL IND

Assignee(s): EXCEL IND INC ; DURA OPERATING CORP ; EXCEL INDUSTRIES INC ; EXCELL INDUSTRIES INC ; DURA GLOBAL TECHNOLOGIES INC ; DURA AUTOMOTIVE SYSTEMS INC ; GENERAL ELECTRIC CAPITAL CORP ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; DURA OPERATING LLC ; WILMINGTON TRUST CO ; UNIVERSAL TOOL AND STAMPING CO INC ; WACHOVIA CAPITAL FINANCE CORP ; PATRIARCH PARTNERS AGENCY SERVICES LLC ; WILMINGTON TRUST LTD ; WACHOVIA CAPITAL FINANCE (CENTRAL) CORP ; WILMINGTON TRUST (LONDON) LTD ; WILMINGTON TRUST CO COLLATERAL AGENT AS ; WILMINGTON TRUST CO SECOND LIEN COLLATERAL AGENT A ; WILMINGTON TRUST LONDON LTD ; WACHOVIA CAPITAL FINANCE CENTRAL CORP ; WILMINGTON TRUST CO SECOND LIEN COLLATERAL AGENT AS ; ATWOOD MOBILE PRODUCTS INC ; BANK OF AMERICA NA ; BANK OF AMERICA NA COLLATERAL AGENT AS ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICAS ; DURA AUTOMOTIVE SYSTEMS CABLE OPERATIONS INC

Inventor(s):(std)**:** BUENING DENNIS J ; BUTLER RAYMOND S ; CRIPE TODD E ; GRUMM DARREN M ; SCHAMANEK ROGER E

International class (IPC 8–9)**:** B60J1/16 B60J1/18 B60J10/04 E05D15/10 E05F11/50 E05F11/53 E05F15/14 (Advanced/Invention); E05F15/14 (Advanced/Non–invention); B60J1/16 B60J1/18 B60J10/02 E05D15/10 E05F11/00 E05F11/38 E05F15/14 (Core/Invention); E05F15/14 (Core/Non–invention)

International class (IPC 1–7)**:** E05F11/00 E05F11/06 E05F11/53 E06B1/00

CPC: E05Y2201/11 E05Y2600/40 E05Y2201/49 E05F15/643 E05F15/646 B60J1/1853 B60J1/16 E05D15/1047 E05D2015/1055 E05F11/505 E05F11/535 E05Y2900/55 Y10T74/18848 B60J10/74

European class: B60J1/16 B60J1/18C2B B60J10/04 E05D15/10S2 E05F11/50B E05F11/53B E05F15/14F E05F15/14F2 P05D15/10S5 P05F11/53B P05F15/14F P05Y900/550

US class: 192/80 192/8C 49/121 49/127 49/130 49/352 49/360 49/380 74/82.99 74/89.22

Classification Explorer

Cited documents: US5613323 A, US5542214 A, US5531046 A, US5528861 A, US5522191 A, US5505023 A, US5442880 A, US5345717 A, US5333411 A, US5146712 A, US5069502 A, US4995195 A, US4970911 A, US4953676 A, US4941286 A, US4926987 A, US4920698 A, US4850139 A, US4793099 A, US4651854 A, US4608778 A, US4561224 A, US4420184 A, US4390203 A, US4384429 A, US4314692 A, US4081926 A, US4026071 A, US3028157 A, US2992460 A, US2555859 A, US2145666 A, US2001758 A, US1997646 A, US1965878 A, US1954211 A, US1877288 A, US1833615 A, GB452535 A, GB263146 A, GB2147432 A1, DE1530848 A1,

Forward Citations: WO9806919, WO13012659, WO10146185, WO08118142, WO08054634, WO08054634, WO08033286, WO06057830, WO05071200, WO04074024, WO03061998, WO0034607, WO0006864, USD787308, USD777079, US9731580, US9688122, US9642187,

US9593852, US9579955, US9574775, US9562688, US9505380, US9487065, US9475364, US9457768, US9242533, US9233734, US9174611, US9174609, US9174515, US9126474, US9108595, US9091110, US9027282, US8955260, US8938914, US8919043, US8915018, US8881458, US8844203, US8813425, US8776435, US8769872, US8707624, US8668989, US8595981, US8474186, US8402695, US8375646, US8375635, US8322075, US8322073, US8316583, US8272168, US8220205, US8186103, US8151519, US8127498, US8113607, US8091948, US8048529, US8042664, US8024893, US7963070, US7934342, US7805888, US7765738, US7641265, US7584574, US7568312, US7509773, US7464501, US7437852, US7395631, US7219470, US7155863, US7155862, US7073293, US7069696, US7036851, US7025405, US7003916, US6955009, US6920719, US6877597, US6810622, US6763550, US6691464, US6591552, US6326751, US6324788, US6223470, US6125585, US6119401, US6112462, US6038819, US6026611, US6018913, US6014840, US5996285, US5906071, US5836110, US5784833, US5775029, US5724769, US2015360634, US2015292256, US2015167372, US2014170357, US2014007509, US2013283693, US2013255158, US2013255156, US2013167445, US2012167469, US2012110915, US2012043865, US2011147153, US2010281931, US2010263291, US2010263290, US2010163080, US2010146859, US2010122497, US2010122496, US2010122495, US2010122494, US2010107505, US2009267382, US2009217595, US2009151265, US2009107052, US2009019778, US2008229667, US2008216410, US2008127563, US2008122262, US2008100093, US2008060275, US2007289618, US2007277454, US2007277442, US2006260205, US2006257555, US2006174544, US2006110605, US2006107600, US2006107599, US2006064934, US2006032140, US2005204631, US2005150171, US2005150170, US2005087992, US2005044799, US2005044798, US2005044797, US2004237699, US2004230382, US2004189047, US2004163315, US2004144034, US2004134131, US2004107535, US2004098919, US2004020131, US2003213179, US2003182866, US2003182865, US2003159360, US2002152685, US2002095899, GB2548552, FR2833211, FR2833209, EP2399767, EP2301782, EP2277729, EP1837218, EP1837218, EP1688574, EP1323558, EP1084879, EP1084879, DE19841222, DE19841222, DE10208106, CN102802977, CN102802977,

Abstract:
Source: US5542214A A flush−closing multi−pane window assembly for a motor vehicle is provided, comprising a frame for mounting in a window recess in the vehicle body, one or more fixed−position panes mounted to the frame and at least one sliding pane mounted to the frame for sliding between an open position and a closed position. In its open position, the sliding pane overlaps a fixed−position pane, but in its closed position is substantially flush therewith. Guide means are provided for guiding the sliding pane as it moves laterally between its open and closed position. The guide means includes fixed members extending from the sliding panes substantially perpendicular to its direction of travel and kick−out means provided by the frame for engaging the fixed members at least during initial lateral movement of the sliding pane from its closed position to its open position. The kick−out means engages the fixed members to force the sliding pane from the plane flush with that of the fixed−position pane to the offset parallel plane substantially simultaneously with such initial lateral movement of the sliding pane from its closed position.

0) US2001022049A – ELECTRONIC CONTROL AND METHOD FOR POWER SLIDING...

85) Family number: 28105909 (US2001022049A) © PatBase

Title: ELECTRONIC CONTROL AND METHOD FOR POWER SLIDING VAN DOOR WITH REAR–CENTER–MOUNTED DRIVE

Priority: US19950501557 19950712 US19950575643 19951220 US19960685427 19960724 US19990426651 19991025 US19980164681 19981001 US19970908126 19970811 WO1996US11524 19960711 WO1996US20929 19961220 US20010832678 20010411

Family:

Publication number	Publication date	Application number	Application date
DE69618199 D1	20020131	DE19966018199	19960711
DE69618199 T2	20020718	DE19966018199T	19960711
DE69623807 D1	20021024	DE19966023807	19961220
DE69623807 T2	20030123	DE19966023807T	19961220
EP0837997 A1	19980429	EP19960926069	19960711
EP0837997 B1	20011219	EP19960926069	19960711
EP0868589 A1	19981007	EP19960945459	19961220
EP0868589 B1	20020918	EP19960945459	19961220
US2001022049 AA	20010920	US20010832678	20010411
US5582279 A	19961210	US19950501557	19950712
US5740894 A	19980421	US19960685427	19960724
US5906071 A	19990525	US19970908126	19970811
US5979114 A	19991109	US19980164681	19981001
US6430875 BA	20020813	US19990426651	19991025
US6904717 BB	20050614	US20010832678	20010411
WO9703303 A1	19970130	WO1996US11524	19960711
WO9722777 A1	19970626	WO1996US20929	19961220

Probable Assignee: VALEO ELECTRICAL SYS INC

Assignee(s):(std)**:** ITT AUTOMOTIVE ELECTRICAL SYST ; VALEO ELECTRICAL SYSTEMS INC ; VALEO ELECTRICAL SYS INC

Assignee(s): JACKSON JAMES A ; ITT AUTOMOTIVE ELECTRICAL SYSTEMS INC ; VALEO ELECTRICAL SYSTEMS INC 3000 UNIV ; ITT AUTOMOTIVE ELECTRICAL SYSTEMS ; BUCHANAN HARRY CHARLES ; CLARK MARIAN E

Inventor(s):(std)**:** BUCHANAN HARRY CHARLES ; BUCHANAN JR HARRY CHARLES ; CLARK MARIAN E ; JACKSON JAMES A ; JACKSON JR JAMES A ; PENROD P ; BUCHANAN C ; PENROD JAMES P ; BUCHANAN JR HARRY C ; BUCHANAN HARRY C JR

Inventor(s): BUCHANAN HARRY C

Agent(s): LEWIS J GORDON; J GORDON

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE

International class (IPC 8–9): B60J5/06 E05B65/12 E05F15/14 F16D43/02 F16D43/16 F16D43/18 F16D43/24 (Advanced/Invention); E05D15/10 (Advanced/Non–invention); B60J5/06 E05B65/12 E05F15/14 F16D43/00 (Core/Invention); E05D15/10 (Core/Non–invention)

International class (IPC 1–7): B60J5/06 E05B17/00 E05F11/34 E05F15/10 E05F15/14 E05F15/20 F16D43/02 F16D43/18 F16D43/20 F16D43/24

CPC: E05Y2400/336 E05Y2400/354 E05Y2400/326 E05B81/21 E05Y2400/44 E05Y2800/114 E05B81/20 E05D2015/1055 E05Y2600/458 E05B81/22 B60J5/06 E05Y2201/22 E05Y2201/232 E05Y2201/246 E05Y2201/434 E05Y2800/11 E05Y2900/531 F16D43/02 F16D43/16 F16D43/18 F16D43/24 E05F15/638

European class: B60J5/06 E05B81/20 E05B81/22 E05F15/14D2 F16D43/02 F16D43/16 F16D43/18 F16D43/24 P05B81/22 P05D15/10S5 P05Y201/216 P05Y201/22 P05Y201/232 P05Y201/246 P05Y201/404 P05Y201/434 P05Y400/44 P05Y600/458 P05Y800/11

P05Y800/114 P05Y900/531

US class: 192/104.00B 192/104B 192/54.5 49/214 49/28 49/280 49/31 49/31S 49/360 49/360P

Classification Explorer

Cited documents: US6308461 BA, US6256930 BA, US6183040 BA, US6089649 A, US6087794 A, US6079767 A, US6076883 A, US6038818 A, US6009671 A, US5982126 A, US5979114 A, US5946955 A, US5906071 A, US5894916 A, US5787636 A, US5765886 A, US5755468 A, US5755059 A, US5746025 A, US5740894 A, US5737876 A, US5644869 A, US5640807 A, US5582279 A, US5551190 A, US5542214 A, US5436539 A, US5422552 A, US5421395 A, US5389920 A, US5383304 A, US5361540 A, US5347755 A, US5325947 A, US5325628 A, US5323570 A, US5322339 A, US5319881 A, US5319880 A, US5316365 A, US5285596 A, US5282663 A, US5280754 A, US5263762 A, US5253452 A, US5248259 A, US5247763 A, US5239779 A, US5233789 A, US5216838 A, US5203112 A, US5189839 A, US5172947 A, US5168666 A, US5155937 A, US5146712 A, US5142823 A, US5142152 A, US5140316 A, US5138795 A, US5105131 A, US5096035 A, US5077938 A, US5076016 A, US5069000 A, US5066056 A, US5063710 A, US5062241 A, US5046283 A, US5039925 A, US5025591 A, US5018303 A, US5004280 A, US4984385 A, US4983963 A, US4982984 A, US4967083 A, US4965502 A, US4922168 A, US4916861 A, US4914859 A, US4887390 A, US4881018 A, US4862640 A, US4861089 A, US4852422 A, US4842313 A, US4801172 A, US4794731 A, US4775178 A, US4769584 A, US4753039 A, US4738052 A, US4707007 A, US4702514 A, US4674231 A, US4645050 A, US4644692 A, US4640050 A, US4617757 A, US4612729 A, US4563625 A, US4530185 A, US4529920 A, US4503638 A, US4471251 A, US4464863 A, US4462185 A, US4330960 A, US4313281 A, US4296852 A, US4248016 A, US4234833 A, US4157846 A, US4152872 A, US4050189 A, US3971492 A, US3874117 A, US3785089 A, US3662491 A, US3653154 A, US3610382 A, US3533188 A, US3462883 A, US3338361 A, US3334443 A, US2771792 A, US2753031 A, US2670829 A, US2251588 A, US2001022049 AA, GB639904 A, GB452767 A, GB176047 A, GB1047067 A, FR2564515 A1, FR2493440 A1, FR1067243 A, EP1047067 A1, EP0639904 A2, EP0611869 A1, EP0609585 A1, EP0598427 A1, DE283908 A, DE283908, DE1425334 A1, DE115895 A, DE115895,

Forward Citations: WO12000052, WO10121698, WO05093276, WO04042178, WO04018809, WO04009939, USRE42879, USRE41324, US9759004, US9717366, US9677332, US9650815, US9628762, US9590467, US9523231, US9458898, US9347864, US9297192, US9238399, US9133653, US8887572, US8857262, US8818646, US8684140, US8665065, US8577647, US8505241, US8484893, US8464469, US8428828, US8405937, US8328270, US8314509, US8033055, US8028375, US8011136, US7978119, US7960853, US7940300, US7937246, US7928678, US7920984, US7874609, US7855475, US7816878, US7798761, US7755223, US7707775, US7690156, US7677178, US7644976, US7627986, US7617034, US7603812, US7591318, US7584572, US7556410, US7551995, US7452026, US7445258, US7417395, US7377075, US7367598, US7339338, US7325361, US7269924, US7243978, US7243461, US7163097, US7042492, US7032349, US7005973, US6964132, US6955079, US6904717, US6898900, US6870340, US6854212, US6848216, US6830104, US6814394, US6807775, US6803733, US6781058, US6779832, US6765481, US6659539, US6641201, US6637561, US6633094, US6626241, US6611990, US6594567, US6561569, US6539670, US6481783, US6437530, US6430875, US6418856, US6412584, US6412223, US6339305, US6328374, US6308636, US6298791, US6286261, US6286260, US6256930, US6250013, US6198242, US6179742, US6174020, US6079767, US5979114, US5914763, US5740894, US2016319598, US2016245006, US2016180610, US2015331030, US2015184440, US2015060231, US2014272076, US2014158489, US2014000165, US2012186157, US2012139287, US2012066975, US2011197514, US2011166827, US2011098942, US2010312395, US2010283581, US2010257784, US2010228447, US2010107500, US2010088855, US2009277093, US2009271077, US2009259371, US2009239097, US2009133334, US2009007496, US2009000059, US2008231074, US2008228436, US2008190027, US2008185868, US2008184623, US2008178422, US2008155900, US2008083167, US2008044268, US2007278822, US2007267992, US2007163179, US2007130837, US2007086203, US2007085374, US2006225358, US2006175846, US2006175845, US2006158144, US2006156630, US2006137250, US2006137136, US2006048451, US2005288840, US2005241237, US2005237015, US2005236866, US2005189189, US2005150167, US2004227410, US2004221511, US2004216383, US2004201498, US2004201229, US2004172884, US2004168371, US2004124798, US2004090083, US2004070231, US2004003484, US2003171866, US2003116995, US2003089042, US2001030689, KR100737575, FR2931185, FR2869264, EP2754796, EP2712998, EP2119857, EP1612629, EP1567736, EP1532341, EP1369623, EP1362730, EP1321324, EP1321324, DE112004002345, DE10358752, DE102012005961, CN104948060, CN104246263, CN102677991, CN102345420, CN102345420, AT411611,

Abstract:
Source: US2001022049A A power drive system is adapted for a sliding door mounted on at least one side of a vehicle for sliding movement forwardly and rearwardly of the vehicle. The system includes a reversible motor. A bracket is guided within a guide along a fixed path between the opened and closed positions of the door. An elongated drive member is slidably disposed within the guide and connected to the bracket at one end for driving the bracket along the fixed path. A translator mechanism operably engages with the drive member for powering movement of the door. The translator mechanism can include a rotatable hub, operably engageable with the drive member, a gear transmission for driving the hub, and a clutch mechanism for connecting the motor to the transmission. The translator mechanism preferably has sufficient power to pull the sliding door into a primary latch position with respect to the corresponding portions of a latch mechanism attached to the door and frame defining the door opening. A power striker moves the door into and out of sealing engagement with the frame. A lock mechanism selectively maintains the latch in a locked position. At least one sensor provides an input signal to a control system corresponding to movement of the door, position of the lock mechanism, and position of the power striker for controlling the door drive unit, power striker drive unit, and lock mechanism drive unit in accordance with a program stored in memory.

0) US5891280A – METHOD AND APPARATUS FOR THE DEPOSITION AND FIX...

86) Family number: 30395295 (US5891280A) © PatBase

Title: METHOD AND APPARATUS FOR THE DEPOSITION AND FIXING OF A THIN METAL WIRE ON A THERMOPLASTIC FILM OF A GLAZING OF LAMINATED GLASS

Priority: DE19951041427 19951107 DE19966007563 19961107

Family:

Publication number	Publication date	Application number	Application date
AT191602 E	20000415	AT19960402372T	19961107
BRPI9605444 A	19980804	BR1996PI05444	19961106
BRPI9605444 B1	20090505	BR1996PI05444	19961106
CN1132504 C	20031224	CN19961021637	19961106
CN1159991 A	19970924	CN19961021637	19961106
CZ290621 B6	20020911	CZ19960003264	19961106
CZ9603264 A3	19970514	CZ19960003264	19961106
DE19541427 A1	19970515	DE19951041427	19951107
DE69607563 D1	20000511	DE19966007563	19961107
DE69607563 T2	20001102	DE19966007563T	19961107
EP0773705 A2	19970514	EP19960402372	19961107
EP0773705 A3	19971119	EP19960402372	19961107
EP0773705 B1	20000405	EP19960402372	19961107
ES2146371 T3	20000801	ES19960402372T	19961107
JP3964487 B2	20070822	JP19960295390	19961107
JP9169077 A2	19970630	JP19960295390	19961107
KR100429324 B1	20040901	KR19960054150	19961115
MX9605396 A1	19980531	MX19960005396	19961106
PL180821 B1	20010430	PL19960316866	19961107
PL316866 A1	19970512	PL19960316866	19961107
PT773705 T	20000929	PT19960402372T	19961107
RO117744 B1	20020628	RO19960002110	19961107
US5891280 A	19990406	US19960744326	19961107

Probable Assignee: SAINT GOBAIN VITRAGE

Assignee(s):(std)**:** SAINT GOBAIN SA ; SAINT GOBAIN VITRAGE ; SAINT GOBAIN VITRAGE COURBEVOIE ; SEKURIT SAINT GOBAIN DEUTSCH ; SAINT GOBAIN

Assignee(s): SAINT GOBAIN GLASS FRANCE ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO 52066 AACHEN DE KG ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG 52 ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG ; SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG 52066 AACHEN DE

Inventor(s):(std)**:** J VANASCHEN ; LUE VANASCHEN ; M GILLNER ; MANFRED GILLNER ; S PIKHARD ; SIEGFRIED PIKHARD ; ZUIIKUFURIITO PIKIARUDO ; VANASCHEN LUE ; VANASCHEN LUC ; VANASCHEN J ; RUU BANASHIEN ; PIKHARD SIEGFRIED ; PIKHARD S ; MANFUREETO GIRUNAA ; IRUANSUUYURUGEN ETSUKUSUTEIN ; GILLNER MANFRED ; GILLNER M ; ECKSTEIN HANS JURGEN ; ECKSTEIN HANS JUERGEN ; PIKHARDT SIEGFRIED

Inventor(s): LUC VANASCHEN ; HANS JURGEN ECKSTEIN ; SIEGFRIED PIKHARDT ; VANASCHEN LUC EUPEN BE ; ECKSTEIN HANS JUERGEN 41516 GREVENBROICH DE ; GILLNER MANFRED 52078 AACHEN DE ; PIKHARD SIEGFRIED 52159 ROETGEN DE

Agent(s): KAWAGUCHI YOSHIO

Designated states: AT BE DE ES FI FR GB IT LU NL PT SE

International class (IPC 8–9): B29C65/00 B32B15/02 B32B17/00 C03C17/32 H05B3/84 H05B3/86 (Advanced/Invention); B29C65/00 (Advanced/Non–invention);

	B29C65/00 B32B15/02 B32B17/00 C03C17/28 H05B3/84 (Core/Invention)
International class (IPC 1–7):	B29C65/00 B32B15/02 B32B17/00 B32B31/00 B60J1/20 B60T1/00 C03B13/00 C03C17/32 H05B3/84 H05B3/86
CPC:	Y10T156/1052 Y10T156/17 H05B3/86 H05B2203/017
European class:	H05B3/86 T05B203/017
US class:	156/250 156/285 156/538 156/64
Classification Explorer	
Cited documents:	US5282301 A, US5164254 A, US5071692 A, US4395622 A, US4284452 A, US3720808 A, EP0443691 A2, EP0032139 A2, DE4201620 A1, DE2329030 A1, CH434005 A,
Forward Citations:	WO06010346, WO04077496, WO04077496, US2007281049, TWI341786, JP4705907, JP4143142, JP2006518912, JP10006929, EP1145842, EP0788295, EP0788294, DE20321682, DE10352464, DE10316388, DE102004060032, DE10018276, CN103200718, CN103200718,

Abstract:
Source: US5891280A Thin resistance wires are deposited in curved form on a thermoplastic film for the manufacture of a car glazing which can be electrically heated. The thermoplastic film is kept by vacuum on the surface of a cylindrical drum having a perforated cylindrical wall. The drum is rotated and the wire deposited and fixed on the film with the aid of a wire deposition apparatus. The wire deposition apparatus is mounted on a carriage able to move parallel to the longitudinal axis of the drum. The carriage is driven by means of a moving screw rotated by a drive motor. The drive motor is controlled by a processor via a regulating amplifier controlled by the processor in accordance with a time−travel program established in accordance with the desired curved shape of the wires.

87) Family number: 31447650 (US2004113319A) © PatBase

Title: NUCLEATED MOLDED ARTICLE, METHOD OF PRODUCING THE SAME, AND DEVICE FOR PRODUCING THE SAME

Priority:

EP20010941141	20010620	JP19960001052	19960108	JP20000183996	20000620
JP20000387052	20001220	JP20010042787	20010220	JP20010074413	20010315
JP20010098571	20010330	JP20010125690	20010424	WO2001JP05296	20010620
US20020317360	20021212	US20100823137	20100625	WO2001JP05296	20021218

Family:

Publication number	Publication date	Application number	Application date
AT536988 E	20111215	AT20010941141T	20010620
AU2001274575 AA	20020102	AU20010274575	20010620
BRPI0112295 A	20030902	BR2001PI12295	20010620
BRPI0112295 B1	20110614	BR2001PI12295	20010620
CA2412173 AA	20021206	CA20012412173	20010620
CA2412173 C	20100817	CA20012412173	20010620
CN1315638 C	20070516	CN20018011509	20010620
CN1437531 A	20030820	CN20018011509	20010620
DE19700165 A1	19970710	DE19971000165	19970107
DE19700165 C2	19980326	DE19971000165	19970107
DE60145795 D1	20120209	DE20016045795	20010620
DK1302304 T3	20120326	DK20010941141T	20010620
EP1302304 A1	20030416	EP20010941141	20010620
EP1302304 A4	20051228	EP20010941141	20010620
EP1302304 B1	20111214	EP20010941141	20010620
ES2379729 T3	20120503	ES20010941141T	20010620
HK1058024 A1	20071207	HK20040100898	20040211
JP3505307 B2	20040308	JP19960001052	19960108
JP4316871 B1	20090819	JP20020503525T	20010620
JP4316871 B2	20090819	JP20020503525T	20010620
JP9188141 A2	19970722	JP19960001052	19960108
KR100855327 B1	20080904	KR20027017232	20010620
KR19970058979 A	19970812	KR19970000227	19970108
KR20030022149 A	20030315	KR20027017232	20010620
MXPA02012640 A1	20040910	MX2002PA12640	20010620
US2004113319 AA	20040617	US20020317360	20021212
US2011012276 AA	20110120	US20100823137	20100625
US5845959 A	19981208	US19970783250	19970114
US7811488 BB	20101012	US20020317360	20021212
WO0198067 A1	20011227	WO2001JP05296	20010620

Probable Assignee: SANWA KAGAKU KENKYUSHO CO LTD

Assignee(s):(std)**:** KONDO YOSHIYA ; OZEKI YUICHI ; SANWA KAGAKU KENKYUSHO CO ; SANWA KAGAKU KENKYUSHO CO LTD ; WEBASTO KAROSSERIESYSTEME ; WATANABE YUKINAO ; DAIKYO WEBASTO

Assignee(s): DAIKYO WEBASTO CO LTD ; WEBASTO KAROSSERIESYSTEME GMBH 82131 STOCKDORF DE ; SANWA KAGAKU KENKYUSHO CO LTD NAGOYA SHI

Inventor(s):(std)**:** OZEKI YUICHI ; KONDO YOSHIYA ; WATANABE YUKINAO ; YOSHIYA KONDO ; YUICHI OZEKI ; YUKINAO WATANABE ; YUICHI KONDO YOSHIYA WATANABE ; UEKI SHIGERU

Inventor(s):

KONDO YOSHIYA WATANABE YUKINAO OZEKI YUICHI ; WATANABE YUKINAO SANWA KAGAKU KENKYUSHO CO LTD ; WATANABE YUKINAOSANWA KAGAKU KENKYUSHO CO LTD NAGOYA SHI ; KONDO YOSHIYA SANWA KAGAKU KENKYUSHO CO LTD ; KONDO YOSHIYASANWA KAGAKU KENKYUSHO CO LTD NAGOYA SHI ; OZEKI YUICHI SANWA KAGAKU KENKYUSHO CO LTD ; OZEKI YUICHISANWA KAGAKU KENKYUSHO CO LTD NAGOYA SHI ; UEKI SHIGERU HIGASHI HIROSHIMA JP

Agent(s): BCF LLP; ISARPATENT PATENTANWAELTE U RECHTSANWAELTE BEHNISCH BARTH CHARLES HASSA PECKMANN AND PARTNER MBB; TORGGLER PAUL NORBERT; HIROE AND ASSOCIATES TARAS P BEMKO; HIROE AND ASSOCIATES; TARAS P

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): A61J3/00 A61J3/06 A61J3/10 A61K9/20 A61K9/28 B29C43/20 B30B11/00 B30B11/02 B30B11/08 B30B11/34 B30B15/30 B60J7/05 B60R13/02 (Advanced/Invention);
A61J3/10 A61K9/20 A61K9/28 B30B11/00 B30B11/02 B30B11/08 B30B15/30 B60J7/06 (Advanced/Non–invention);
B30B11/00 (Core/Invention);
A61K9/00 B30B15/00 (Core/Non–invention);
B30B (Subclass/Invention);
A61J (Subclass/Non–invention)

International class (IPC 1–7): A61J3/00 A61J3/06 A61K9/28 B30B11/00 B30B11/34 B30B15/30 B32B19/00 B60J7/05 B60J7/06

CPC: B60J7/05 Y10T428/29 A61J3/06 A61J3/10 A61K9/2054 A61K9/2081 A61K9/2095 B30B11/02 B30B11/08 B30B11/34 B60R13/0206 B60R13/0212

European class: A61J3/06 A61K9/20H6F2 A61K9/20K2B A61K9/20P B30B11/02 B30B11/08 B30B11/34 B60R13/02B B60R13/02C K61J3/10

US class: 264/112 264/113 264/255 264/255S 264/319 264/319P 264/39 264/39P 296/221 296/223 425/354 425/354S 425/416 425/416S 428/357 428/357S

Classification Explorer

Cited documents: US7811488 BB, US7132072 BB, US5718472 A, US5192552 A, US5071607 A, US4995665 A, US3332367 A, US1624904 A, JPH02123395 U, JP9206358 A2, JP7214396 A2, JP7164890 A2, JP64030537 A2, JP61060298 A2, JP6046604 B2, JP59039499 A2, JP55048653 A2, JP53142520 A2, JP52126577 A2, JP5036619 A2, JP2243158 A2, JP2243157 A2, JP2141329 A2, JP2123395 U1, JP2072113 A2, JP2000061699 A2, JP1030537, GB839502 A, GB743222 A, GB1034713 A,

Forward Citations: WO16009248, WO15008825, WO13067995, WO08099283, WO08099283, WO07065417, WO06022290, WO05097041, WO05046978, WO02090098, US9707729, US9452583, US9278063, US9248621, US9078807, US9028867, US8980363, US8920839, US8876521, US8568127, US8167365, US7901200, US7713455, US7581941, US7510237, US7018194, US6494529, US6471286, US6419310, US6394540, US6390544, US6343833, US6325453, US2016136916, US2015125242, US2012237602, US2012064162, US2011012276, US2010148399, US2010136180, US2010092596, US2009110726, US2009015038, US2008116606, US2008092706, US2008036246, US2007231420, NL1011864, KR101172926, KR101075308, JP5702305, JP5458096, JP5458096, JP4932072, JP4881735, JP4881735, JP4693628, JP4179819, JP2014054673, JP2004058065, JP2000313236, FR2905900, EP3043779, EP2433652, EP2433652, EP2014496, EP1782944, EP1698448, EP1698448, EP1273470, EP1046529, DE10203848, DE10203847, DE102005058007, DE102005035819, DE102005001869, CN104589691, CN104589691, CN104245296, CN104023965, AU2006280656,

Abstract:
Source: US2004113319A The subject is to manufacture molding with core efficiently and at one time from molding material such as powder granule. To this end, a method for manufacturing molding with core was invented, which method uses compression molding means, that comprise a die, and upper and lower punches, where at least the upper punch, preferably both the upper and lower punches, have a double structure consisting of a central punch and an outer punch surrounding the outer periphery of the central punch, both the central punch and the outer punch being capable of performing sliding motions as well as compressing operations. This method includes steps of separate supplying of molding materials for core and molding material for outer layer, a compression molding step of the molding material for core and/or the molding material for outer layer, and a compression molding step of the whole molding with core. The invention also provides a rotary compression molding machine,

used for execution of the method. The invention also provides various characteristic molding with core manufactured by the above manufacturing method. The core may include a large amount of microcapsules which are incomplete molding, or plural cores.

88) Family number: 10719099 (US5670555A) © PatBase

Title: Foamable siloxane compositions and silicone foams prepared therefrom

Priority: US19960767484 19961216 US19960767927 19961217 US19970848711 19970428 US19970938011 19970912 US19970848710 19970428 US19960768879 19961217

Family:

Publication number	Publication date	Application number	Application date
EP0848039 A2	19980617	EP19970121511	19971206
EP0848039 A3	19980916	EP19970121511	19971206
JP10176075 A2	19980630	JP19970342693	19971212
KR19980064150 A	19981007	KR19970068993	19971216
US5670555 A	19970923	US19960768879	19961217
US5670556 A	19970923	US19960767484	19961216
US5708043 A	19980113	US19960767927	19961217
US5733946 A	19980331	US19970848710	19970428
US5733947 A	19980331	US19970848711	19970428
US5985945 A	19991116	US19970938011	19970912

Probable Assignee: DOW CORNING

Assignee(s):(std)**:** DOW CORNING

Assignee(s): DOW CORNING CORP ; SECRETARY OF NAVY AS US GOV ; SECRETARY OF NAVY CHIEF OF NAVAL RESEARCH OFFICE O ; SECRETARY OF NAVY US ; SECRETARY OF NAVY US GOV AS

Inventor(s):(std)**:** LOISELLE BRIAN PAUL ; RAPSON LAWRENCE JOSEPH

Agent(s): NISHIYAMA MASAYA; YOSHIDA TSUGUO; ISHIDA TAKASHI

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class(IPC 8–9)**:** B60J10/00 C08J9/02 C08J9/12 C08J9/14 C08L83/04 C08L83/06 (Advanced/Invention); C08J9/228 C08L83/04 (Advanced/Non–invention); B60J10/00 C08J9/00 C08L83/00 (Core/Invention)

International class(IPC 1–7)**:** B05D3/02 B05D5/00 C07J9/00 C08J9/00 C08J9/02 C08L83/04 C08L83/06

CPC: B60J10/15 C08G77/16 C08G77/70 C08J9/125 C08L83/04 C08J9/142 C08J9/02 C08J2383/04

European class: B60J10/00C C08J9/02 C08J9/12D C08J9/14D C08L83/04 M08G77/16 M08G77/70 M08J383/04

US class: 427/244 427/373 521/134 521/154 521/79 521/81

Classification Explorer

Cited documents: US4888217 A, US4728567 A, US4719243 A, US4631299 A, US4599367 A, US4593049 A, US4567212 A, US4555529 A, US4495227 A, US4461851 A, US4320611 A, US4026835 A, JP5269764, EP0320604 A2,

Forward Citations: WO14075036, WO14008322, WO10081886, US9540494, US9359529, US9017771, US8822560, US8822559, US8541481, US5900281, US2011212325, US2011206924, US2011206923, US2007251889, US2003215640, US2003213939, US2002178344, EP2208494,

Abstract:
Source: US5670555A Foamable organosiloxane compositions which yield, upon cure, silicone foams having low density and decreased friability, comprising (A) a siloxane base polymer system which is a combination of a high molecular weight hydroxyl–group containing siloxane polymer and a low molecular weight hydroxyl–group containing siloxane polymer; (B) a silicon–containing crosslinker for the siloxane base polymer system, wherein the crosslinker contains at least two –SiH groups per molecule; (C) a platinum group catalyst; (D) a silicone resin copolymer; and optionally (E) a blowing agent; and silicone foams prepared therefrom. A method of weather–stripping a door or window using a silicone foam so prepared.

89) Family number: 29435569 (US6039390A) © PatBase

Title: CHROMOGENIC WINDOW ASSEMBLY CONSTRUCTION AND OTHER CHROMOGENIC DEVICES

Priority: US19960699940 19960820 US19970914876 19970820 US20000493263 20000128 WO1997US14558 19970820 US20000595315 20000616

Family:

Publication number	Publication date	Application number	Application date
AU199741533 A1	19980306	AU19970041533	19970820
EP0923754 A1	19990623	EP19970939446	19970820
US6039390 A	20000321	US19970914876	19970820
US6493128 BA	20021210	US20000493263	20000128
US6528782 BA	20030304	US20000595315	20000616
WO9808137 A1	19980226	WO1997US14558	19970820

Probable Assignee: SCHOTT DONNELLY LLC SMART GLASS SOLUTIONS

Assignee(s):(std)**:** DONNELLY CORP ; SCHOTT DONNELLY LLC

Assignee(s): SCHOTT DONNELLY LLC SMART GLASS SOLUTIONS

Inventor(s):(std)**:** AGRAWAL ANOOP ; BAERTELIN CARL ; BAERTLEIN CARL ; FISCHER DOUGLAS ALAN ; HANSEN STEPHAN ; LECOMPTE BOB ; LECOMPTE ROBERT STEVEN ; TONAZZI JUAN CARLOS LOPEZ ; ZHANG RAYMOND

Inventor(s): ROBERT STEVEN LECOMPTE ; JUAN CARLOS LOPEZ TONAZZI ; DOUGLAS ALAN FISCHER ; CARL BAERTLEIN ; ANOOP AGRAWAL

Agent(s): E F WELLINGTON AND CO

Designated states: AT AU BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** B60J3/04 E06B9/24 G02F1/01 G02F1/13 G02F1/133 G02F1/153 G02F1/163 (Advanced/Invention); G02F1/01 G02F1/153 G02F1/163 (Advanced/Non–invention); B60J3/00 E06B9/24 G02F1/13 (Core/Invention); G02F1/01 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/20 B60J3/04 E06B3/66 E06B9/24 G01J3/50 G02F1/1335 G02F1/15 G02F1/153 G02F1/17

CPC: B32B17/10467 B32B17/10513 B32B17/10036 Y02T10/90 B60J3/04 E06B9/24 E06B2009/2464 G02F1/011 G02F1/13318 G02F1/133308 G02F1/133382 G02F1/153 G02F1/163

European class: B32B17/10C4 B60J3/04 E06B9/24 G02F1/1333E G02F1/133D2 P06B9/24F S02F1/01C S02F1/1333V S02F1/133D2 S02F1/153 S02F1/163 Y02T10/88

US class: 244/129.3 250/205 250/226 296/211 296/215 349/16 359/241 359/265 359/275 52/171.3 52/204.5 52/786.1

Classification Explorer

Cited documents: WO9624882 A1, USRE30835 E, US6099283 A, US5763050 A, US5733483 A, US5659417 A, US5604626 A, US5589958 A, US5524955 A, US5472643 A, US5466037 A, US5434371 A, US5424898 A, US5424865 A, US5384578 A, US5377037 A, US5261722 A, US5241411 A, US5239406 A, US5233461 A, US5220317 A, US5148014 A, US5142407 A, US5122647 A, US5076674 A, US5076673 A, US5073012 A, US5066112 A, US5042923 A, US5009044 A, US5007718 A, US4893908 A, US4799768 A, US4793690 A, US4750816 A, US4749261 A, US4712879 A, US4702566 A, US4671619 A, US4652090 A, US4475031 A, US4338000 A, US4306769 A, US4268126 A, US4217391 A, US4174152 A, US4164365 A, US3807832 A, US3521941 A, US30835 A, JP63106731 A2, JP63106730 A2, JP59032521 A2, JP58020729 A2, JP32521, JP282021, JP1282021 A2, JP1215621 A2, GB2268595 A1, GB2055942 A1, EP0238164 A1, DE3816069 A1, CA698472 A,

Forward Citations: WO15050946, WO14065823, WO11133830, WO11017588, WO10149284, WO10124279, WO09030406, WO09030406, WO09019033, WO09002350, WO08029982, WO05008010, WO05008010, WO02071138, WO0077564, WO0013060, WO0013060, USD585365,

US9797141, US9765522, US9736028, US9733478, US9728920, US9694740, US9690162, US9671665, US9664976, US9645465, US9638978, US9618819, US9539883, US9521726, US9517721, US9511650, US9504133, US9482922, US9482399, US9470828, US9454055, US9436055, US9436054, US9423664, US9365281, US9360747, US9353938, US9351381, US9341912, US9341909, US9335565, US9333728, US9268157, US9217582, US9215780, US9200452, US9170465, US9146438, US9146437, US9146012, US9130097, US9128346, US9126474, US9116370, US9110345, US9081246, US9057535, US9042085, US9016630, US8988757, US8967538, US8921751, US8891153, US8885242, US8884203, US8882185, US8827347, US8801220, US8787590, US8781676, US8779340, US8749870, US8736943, US8729446, US8678483, US8668989, US8662577, US8632034, US8611828, US8601745, US8599466, US8514476, US8432600, US8417127, US8406632, US8380393, US8375657, US8362700, US8344912, US8322073, US8292228, US8280398, US8256940, US8248680, US8219217, US8200390, US8115984, US8076870, US8070902, US8064120, US8048529, US7980031, US7976189, US7970172, US7954281, US7893890, US7826113, US7822490, US7782519, US7776436, US7773284, US7772966, US7771103, US7738155, US7677495, US7610910, US7607266, US7542809, US7535614, US7505136, US7429827, US7405523, US7355161, US7348896, US7330102, US7327226, US7300166, US7278241, US7275716, US7266930, US7266204, US7254927, US7245205, US7196477, US7185464, US7149026, US7085609, US7082736, US7082726, US7080874, US7021006, US7012729, US6995892, US6980092, US6969920, US6965813, US6957520, US6939612, US6937380, US6906842, US6871902, US6802162, US6795226, US6786610, US6783099, US6759945, US6753047, US6750823, US6750414, US6640142, US6630813, US6622812, US6536828, US6491338, US6466298, US6465963, US6459460, US6428216, US6407712, US6405105, US6369935, US6305123, US6294258, US6199933, US6166698, US2017008449, US2016214467, US2016130816, US2016109778, US2016011483, US2015369434, US2015362143, US2015286057, US2015153639, US2015122474, US2015103389, US2015098121, US2015073204, US2014320947, US2014146382, US2014118810, US2013193721, US2013158790, US2013147239, US2013043347, US2013038093, US2012280537, US2012203601, US2012153684, US2012113623, US2012004523, US2011266953, US2011214712, US2011209319, US2011199976, US2011187984, US2011122554, US2011046810, US2011030290, US2011029194, US2010315717, US2010224838, US2010175819, US2010119242, US2010119233, US2010079844, US2010031590, US2009323160, US2009302783, US2009293386, US2009279004, US2009204269, US2009176101, US2009168185, US2009121970, US2009115922, US2009102387, US2009085497, US2008315163, US2008310007, US2008259433, US2008239451, US2008239422, US2008234893, US2008230653, US2008224034, US2008218434, US2008104903, US2008074724, US2008061236, US2008055731, US2008048101, US2008042012, US2007291383, US2007271848, US2007236228, US2007179239, US2007177161, US2007170870, US2007075876, US2007068096, US2007067048, US2007064446, US2007058114, US2007019273, US2006226949, US2006097855, US2006011309, US2005268629, US2005248285, US2005233125, US2005231527, US2005231336, US2005200934, US2005200933, US2005184561, US2005168794, US2005152218, US2005135101, US2005063036, US2005023413, US2005005542, US2005000174, US2004247883, US2004246607, US2004241385, US2004240029, US2004233537, US2004100676, US2004042223, US2004028881, US2004020754, US2004012762, US2003233172, US2003227664, US2003227663, US2003192991, US2003079422, US2003057733, US2002158805, US2002140884, RU2621282, JP6206539, GB2448041, GB2448041, FR3023510, FR2909316, FR2821937, EP2956322, EP2841671, EP2799927, EP2517332, EP2517332, EP2080648, EP1762885, EP1297380, EP1295169, EP1110123, DE102008045552, CN103991366, CN103163706, CN102947133, CN102472890, CN102472890, AU765097, AU2010279364,

Abstract:
Source: US6039390A A chromogenic window panel assembly, and a chromogenic skylight each includes an outer panel and a chromogenic member having an optical property which varies according to an applied signal. A chromogenic light pipe includes a light harvesting member and a chromogenic member having an optical property which varies according to an applied signal. A chromogenic vehicle sunroof, a chromogenic aircraft window assembly, and a chromogenic window assembly each includes a panel having a particular panel contour corresponding to a surface contour and a chromogenic panel having an optical property which varies according to an applied signal. A chromogenic block includes two panels and a chromogenic panel having an optical property which varies according to an applied signal.

0) US5938252A – DOOR MEMBER LOCKING/UNLOCKING APPARATUS

90) Family number: 11673361 (US5938252A) © PatBase

Title: DOOR MEMBER LOCKING/UNLOCKING APPARATUS

Priority: JP19960221427 19960822 JP19960316640 19961127 JP19970159748 19970617 JP19970159750 19970617 JP19970159749 19970617 JP19970159751 19970617

Family:

Publication number	Publication date	Application number	Application date
DE19736445 A1	19980226	DE19971036445	19970821
DE19736445 B4	20060608	DE19971036445	19970821
JP10115138 A2	19980506	JP19960316640	19961127
JP11006341 A2	19990112	JP19970159751	19970617
JP11006344 A2	19990112	JP19970159748	19970617
JP11006345 A2	19990112	JP19970159749	19970617
JP11006346 A2	19990112	JP19970159750	19970617
JP3160553 B2	20010425	JP19970159748	19970617
JP3160554 B2	20010425	JP19970159750	19970617
JP3232251 B2	20011126	JP19960316640	19961127
US5938252 A	19990817	US19970916988	19970821

Probable Assignee: ASMO CO LTD

Assignee(s):(std)**:** ASMO CO LTD ; DENSO CORP ; NIPPON DENSO CO

Assignee(s): ASMO CO LTD KOSAI SHIZUOKA JP ; ASMO CO

Inventor(s):(std)**:** UEMURA KEIICHI ; KONDO MITSUHIRO ; KAMIMURA KEIICHI

Inventor(s): KONDO MITSUHIRO KOSAI SHIZUOKA JP ; UEMURA KEIICHI KARIYA AICHI JP

International class (IPC 8–9)**:** B60J5/00 E05B47/00 E05B65/00 E05B65/12 E05B65/19 E05B65/20 E05B65/32 E05B77/40 E05B79/04 E05B81/20 E05B81/32 E05B81/42 E05B81/48 E05B81/56 E05B81/64 E05B81/66 E05B81/68 E05B81/76 E05B81/90 E05B83/18 E05B83/36 E05B85/24 (Advanced/Invention); E05B47/00 (Advanced/Non–invention); B60J5/00 E05B47/00 E05B65/00 E05B65/12 E05B65/20 E05B65/32 (Core/Invention); E05B47/00 (Core/Non–invention)

International class (IPC 1–7)**:** B60J5/00 E05B47/00 E05B65/00 E05B65/12 E05B65/19 E05B65/20 E05B65/32 E05C3/06

CPC: Y10S292/23 E05B81/21 E05B81/14 E05B81/20 E05B81/64 E05B81/68 Y10T292/1047 Y10T292/1082

European class: E05B81/14 E05B81/20 P05B47/00E6

US class: 292/201 292/216 292/DIG.23

Classification Explorer

Cited documents: US5639130 A, US5564761 A, US5288115 A, US5180198 A, US4948183 A, JPS63230871, JPS60148974, JPS598462, JPS5883777, JPS58178778, JPS58153873, JP63230871 A2, JP60148974 A2, JP59008462 A2, JP58178778 A2, JP58153873 A2, JP58083777 A2, JP5027748 A2, JP2515711 T2, JP2503445 T2, DE8322896 U, DE3523547 A1,

Forward Citations: WO16041848, WO15062876, WO11070920, WO10012272, WO10012272, WO09151008, WO09149685, WO09149685, WO09149684, WO09056119, WO09056119, WO07088170, WO0181695, WO0118333, US9777515, US9714532, US9677318, US9574379, US9567781, US9428943, US9290969, US8919828, US8851533, US8844984, US8757682, US8757681, US8757679, US8651536, US8608212, US8480138, US8044767, US7959205, US7827836, US7552952, US7500700, US7416229, US7380844, US7360803, US7210714, US7175228, US7150480, US7093887, US6936983, US6659515, US6568720, US6522095, US6435573, US6428059, US6422617, US6048002, US2016290657, US2016130840, US2016052376, US2015308161, US2015096233, US2015042110, US2015035292, US2014203572, US2013049379, US2012248796, US2012068480, US2012061977, US2012001442,

US2011187132, US2011187129, US2011127780, US2011084504, US2010259061, US2010194120, US2010117379, US2010052336, US2008023971, US2007210588, US2007205613, US2007090655, US2007007774, US2006267351, US2006213242, US2006208502, US2006202488, US2006055181, US2005039404, US2004227357, US2004195844, US2004012352, KR100819699, KR100736977, JP5520025, JP5450021, JP5285969, JP4644578, JP4376825, JP4323214, JP4142236, JP4133165, JP4050008, JP4028166, JP2016048951, JP2011122354, JP2011122353, JP2009299313, JP2009243114, JP2008002208, JP2007100475, JP2007100390, JP2006328708, JP2006207324, JP2006207323, JP2005068783, JP2004332420, JP2004116042, JP2002542139, JP2002339624, JP2002121947, JP2002021400, FR2896818, FR2805560, FR2779469, FR2778939, EP2990572, EP2865828, EP2348173, EP2348173, EP1686024, EP1243725, EP1188890, EP1188890, EP1176273, EP1136745, EP1076141, EP0964119, DE19934753, DE10231825, CN105683465, CN102652202, CN102652202,

Abstract:
Source: US5938252A A door member locking/unlocking apparatus comprises a motor for driving an output shaft rotationally, and a latch rotatably hinged in a position to engage with a striker for retaining a door member in a closed state and urged in a direction to disengage from the striker. A first ratchet regulates the latch in a partially latched position and in a fully latched position. A second ratchet turns the latch from the partially latched position to the fully latched position. An engaging pin provided on the first ratchet releases the retention of the latch in the fully latched position by the first ratchet. A cam is arranged to have an axis of rotation in parallel with that of the latch. The cam is rotationally driven by the motor for actuating the second ratchet and the engaging pin.

0) US5738403A – VEHICLE PROTECTIVE COVER

91) Family number: 10750074 (US5738403A) © PatBase

Title: Vehicle protective cover

Priority: US19960638433 19960426

Family:

Publication number	Publication date	Application number	Application date
US5738403 A	19980414	US19960638433	19960426

Probable Assignee: TYSON CAROLYN L

Assignee(s):(std)**:** TYSON CAROLYN L

Inventor(s):(std)**:** TYSON CAROLYN L

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J11/00

CPC: B60J11/00 B60J11/06

European class: B60J11/00 B60J11/06

US class: 296/136 296/136.02 296/136.04

Classification Explorer

Cited documents: US5413396 A, US5350000 A, US5343915 A, US5324090 A, US5287904 A, US5273316 A, US5242206 A, US5209545 A, US5024479 A, US4951993 A, US4929016 A, US4825889 A, US4807922 A, US4799728 A, US4598883 A,

Forward Citations: WO05007436, WO03006272, US9452667, US9126475, US8910998, US8632120, US8382191, US8146984, US8066319, US7823953, US7255386, US7243975, US7219616, US7125066, US7125066, US6964447, US6763842, US6705664, US6595575, US6439644, US6254170, US2017111960, US2015202952, US2015115647, US2014341697, US2011140478, US2009261614, US2009108624, US2008241813, US2008236713, US2007272335, US2007194598, US2007085372, US2006143891, US2006043761, US2005275242, US2005264026, US2005218692, US2005134081, US2005098080, KR200478226, FR2831860, EP1308334,

Abstract:
Source: US5738403A A vehicle protective cover includes a plurality of lightweight separable panels, each having an inner layer, a thicker shock absorbing center layer, and a substantially thinner outer layer that defines a skirt having plural spaced–apart tie–down lines for securing the cover on the vehicle with the skirt disposed extending from the vehicle in a tensioned, stand–off position.

0) US5809707A – WINDOW GUARD AND REPLACEMENT SYSTEM FOR VEHICLE...

92) Family number: 11153247 (US5809707A) © PatBase

Title: WINDOW GUARD AND REPLACEMENT SYSTEM FOR VEHICLE WINDOWS

Priority: US19960726130 19961004

Family:

Publication number	Publication date	Application number	Application date
US5809707 A	19980922	US19960726130	19961004

Probable Assignee: BARGADOS CHRISTIAN J

Assignee(s): BARGADOS CHRISTIAN J ; BARGADOS VINCE ; BARGADOS WALTER D

Inventor(s):(std)**:** BARGADOS CHRISTIAN J ; BARGADOS VINCE ; BARGADOS WALTER D

International class (IPC 8–9)**:** B60J10/00 B60J10/02 E06B3/62 (Advanced/Invention); B60J10/00 B60J10/02 E06B3/58 (Core/Invention)

International class (IPC 1–7)**:** E06B3/964

CPC: B60J10/365 B60J10/45 B60J10/70 B60J1/10 B60J1/2094 E06B3/6205 E06B2003/6226 E06B2003/6238 E06B2003/6264

European class: B60J1/10 B60J1/20C B60J10/00G10 B60J10/00G3B B60J10/02 E06B3/62B P06B3/62P3 P06B3/62Q P06B3/62R6

US class: 296/146.15 49/463 49/61 52/203 52/204.51 52/204.597 52/204.62 52/208

Classification Explorer

Cited documents: US5242207 A, US5123211 A, US4835927 A, US3375626 A, US3213584 A, US3068617 A, US3045787 A, US2591048 A, US2193852 A, GB979676 A,

Forward Citations: WO0026048, US9752373, US9599139, US9580954, US9353567, US9255438, US9022091, US8776435, US8495841, US8272178, US8091948, US7568316, US7254927, US7188399, US7104015, US7082736, US7080874, US7021006, US7000251, US6957520, US6871902, US6688044, US6585311, US6425215, US6419298, US6408574, US6206453, US6205723, US6186579, US6116678, US6097553, US6052957, US6047500, US2014286701, US2011030277, US2009267382, US2006021290, US2006000162, US2005273900, US2005210830, US2005066506, US2005048932, US2004128924, US2003159376, US2003041533, US2002184840, EP1135270,

Abstract:
Source: US5809707A A graffiti protected glass window for a vehicle can be quickly refurbished by changing a thin plastic guard window overlying the glass pane. The plastic guard window is retained within a resilient elastomeric mount which also retains the glass pane within the rigid window frame. A window guard seating space is defined along one side in a upper portion of the seating space defined in the mount for accommodating the glass pane. The side of the mount into which the window guard seating space is defined is molded so as to be slightly inwardly inclined to assist in weather sealing the window guard. The mount is selectively locked and unlocked by the use of a conventional locking channel and locking strip. The window guard is easily removed and reinserted using conventional hand tools. The window guard is securely maintained against the window pane, but is able to accommodate differentials in thermal expansion between the window glass and the window guard since their common attachment occurs only by virtue of their common seating within the mount.

0) EP0876931A2 – WEATHER AND/OR SUN SHIELD DEVICE FOR MOTOR VEHI...

93) Family number: 14887951 (EP0876931A2) © PatBase

Title: WEATHER AND/OR SUN SHIELD DEVICE FOR MOTOR VEHICLES

Priority: IT1997BZ00022 19970507 IT1997BZ00052 19970926

Family:

Publication number	Publication date	Application number	Application date
EP0876931 A2	19981111	EP19980201428	19980504
EP0876931 A3	20010314	EP19980201428	19980504
IT1296390 B1	19990625	IT1997BZ00052	19970926
ITBZ970022 A0	19970507	IT1997BZ00022	19970507
ITBZ970022 A1	19981109	IT1997BZ00022	19970507
ITBZ970052 A1	19990326	IT1997BZ00052	19970926

Probable Assignee: ELSLER HELENE

Assignee(s):(std)**:** ELSLER HELENE

Inventor(s):(std)**:** ELSLER ALOIS ; ELSLER HELENE

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention); B60J (Subclass/Invention)

International class (IPC 1–7)**:** B60J11/00

CPC: B60J11/02

European class: B60J11/00

Classification Explorer

Cited documents: WO9425303 A1, US5462329 A, US5413396 A, US5176421 A, US4951993 A, US4925234 A, US4900081 A, US4727898 A, US3992053 A, GB2260557 A1, DE29823368 U1,

Abstract:
The protective cover consists of a tarpaulin (2) with two connection devices for fastening it to two different points on the vehicle body. The tarpaulin consists of a fabric length (3), rolled–up on a winder device (5). First and second tensioners (13,14,10) on the ends of the tarpaulin fasten it to front and rear of the vehicle. The rear tensioner is fastened to the lock bolt of the boot lid, the front tensioner is fastened to the front bumper. The fabric length passes through a bracket (6,7), which is at a distance to the vehicle. The bracket is formed by two blocks, positioned at the sides of the tarpaulin. The distance between the blocks is adjustable.

0) WO0026049A1 – LIGHT–PROTECTION DEVICE FOR THE WINDSCREEN OF A...

94) Family number: 11547580 (WO0026049A1) © PatBase

Title: LIGHT–PROTECTION DEVICE FOR THE WINDSCREEN OF A VEHICLE

Priority: RU19980120414 19981103 RU19990101786 19990121 WO1999RU00391 19991019 RU19990101786U 19990121

Family:

Publication number	Publication date	Application number	Application date
AU200037883 A1	20000522	AU20000037883	19991019
AU200037883 A5	20000522	AU20000037883	19991019
EP1136290 A1	20010926	EP19990971377	19991019
JP2002528338 T2	20020903	JP20000579460T	19991019
KR20010080323 A	20010822	KR20017005132	19991019
RU10927 U1	19990816	RU19990101786U	19990121
RU2145553 C1	20000220	RU19980120414	19981103
WO0026049 A1	20000511	WO1999RU00391	19991019

Probable Assignee: ZUBKOV ALEKSANDR STEPANOVICH

Assignee(s):(std)**:** ZUBKOV ALEKSANDR STEPANOVICH ; ZUBKOV ALEXANDR STEPANOVICH ; ZUBKOV ALEXANDR STEPHANOVICH

Assignee(s): ALEXANDR STEPHANOVICH ZUBKOV

Inventor(s):(std)**:** ZUBKOV ALEXANDR STEPHANOVICH ; ZUBKOV ALEXANDR STEPANOVICH ; ZUBKOV A S

Inventor(s): ALEXANDR STEPHANOVICH ZUBKOV ; ZUBKOV A.S.

Agent(s): SUZUKI SATORU

Designated states: AT AU BE BR CH CY DE DK ES FI FR GB GR IE IT JP KR LU MC NL PT SE US

International class (IPC 8–9)**:** B60J1/20 B60J11/00 B60J3/00 G09F23/00 (Advanced/Invention); B60J11/00 B60J3/00 (Advanced/Non–invention); B60J1/20 B60J11/00 B60J3/00 (Core/Invention)

International class (IPC 1–7)**:** B60J11/00 B60J3/00

CPC: B60J1/2091

European class: B60J1/20B3

Classification Explorer

Cited documents: US4652039 A, US4647102 A, SU1754493 T, SU1606358 T, RU2022817, RU2017628 C1, FR2622154 A1, DE3413966 A1, CH631662 A3, CH631662,

Forward Citations: US7842892, GB2493386, EP2068133, DE202004003916,

Abstract:
The present invention relates to a light–protection device for the windscreen of a vehicle, wherein said device comprises an embossed cloth comprising embossments which exhibit a sawtooth profile and have their generatrix perpendicular to the upper and lower edges of said cloth. The device further includes fixation members for attaching the cloth on the inner side of the windscreen, wherein said members are made in the form of suction cups provided with lugs on their back surface. The upper angles of the cloth include openings that co–operate with the hook–shaped lugs of the suction cups, while the lower edge of the cloth, when in use, is placed in the vicinity of the windscreen on the instrument panel so as to be brought into contact with the same. Information can further be applied on one at least of the cloth surfaces.

0) EP0983921A1 – IMPROVEMENTS TO VEHICLE–TRANSPORTING RAILWAY CA...

95) Family number: 11506711 (EP0983921A1) © PatBase

Title: Improvements to vehicle–transporting railway cars

Priority: CA19982246885 19980909 US19980145503 19980902

Family:

Publication number	Publication date	Application number	Application date
AU199945884 A1	20000316	AU19990045884	19990901
AU199945884 A5	20000316	AU19990045884	19990901
CA2246885 AA	20000302	CA19982246885	19980909
EP0983921 A1	20000308	EP19990116759	19990830

Probable Assignee: THRALL CAR MFG COMPANY

Assignee(s):(std)**:** THRALL CAR MFG CO ; THRALL CAR MFG COMPANY

Assignee(s): TRINITY RAIL GROUP LLC ; TRN BUSINESS TRUST ; TRINITY RAIL GROUP INC ; BLACK JAMES E JR ; ROBERTSON JAMES C ; SIMPSON JAMES M ; THRALL CAR MANUFACTURING COMPANY

Inventor(s):(std)**:** BLACK JAMES E JR ; ROBERTSON JAMES C ; SIMPSON JAMES M

Inventor(s): BLACK JAMES E ; JAMES C ROBERTSON ; JAMES E BLACK JR ; JAMES M SIMPSON

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MACRAE AND CO

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** B61D19/00 B61D3/18 (Advanced/Invention); B61D19/00 B61D3/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/10 B60P3/08 B61D19/00 B61D3/18 E05B17/08

CPC: B61D3/18 B61D3/187 B61D19/005

European class: B61D19/00C3 B61D3/18 B61D3/18C

Classification Explorer

Cited documents: US5765486 A, US4944234 A, US4936227 A, US4686909 A, US4667604 A,

Abstract:
Source: EP0983921A1 Improvements to vehicle–transporting railway cars comprising movable bridge plate supports which avoid interference with door clearance requirements, and improved end door lock, and a flexible deflector for decreasing air flow about the outer edges of the end doors. The movable bridge plate supports comprise a lower deck bridge plate support which is movable between a retractable position in which it can support the free end of the bridge plate connected to an adjacent car, and an extended position in which it may be pivotally connected to a bridge plate while spanning a door track. An upper deck bridge plate is provided which comprises a movable member and fixed member, with the movable member and fixed member in combination engaging opposite sides of one of a bridge plate for pivotal connection thereto. Each of the lower deck bridge plates includes a support member for engaging the free end of a bridge plate connected to an adjacent car, and includes a foot to support provided by the door track when in extended position. The improved lock includes lubrication conduits extending between external surfaces and lock pin apertures in top and bottom walls which are joined by a channel shaped side wall structure, and further includes circumferentional channels within the interior surfaces of the lock pin apertures to, dispose between pin engaging surfaces therein, for distribution of lubricant. The flexible deflector extends inward from each of the side walls where the outer edges of the end doors to decrease or inhibit air flow around the outer edges without contacting the end doors when in closed position. The bridge plate supports, lock, and deflectors all must be sufficiently strong and durable to withstand loads imposed during railway service over extended periods of years, without failure.

0) US2002108325A – STRUCTURAL REINFORCEMENT SYSTEM FOR REINFORCING...

96) Family number: 28240412 (US2002108325A) © PatBase

Title: Structural reinforcement system for reinforcing openings formed in structures

Priority: US19990257875 19990225 US20000497414 20000203 US20020057811 20020125 WO2000US03343 20000209

Family:

Publication number	Publication date	Application number	Application date
AU200029879 A5	20000914	AU20000029879	20000209
EP1163403 A1	20011219	EP20000908563	20000209
EP1163403 A4	20041201	EP20000908563	20000209
US2002108325 AA	20020815	US20020057811	20020125
US6192637 BA	20010227	US19990257875	19990225
US6374551 BA	20020423	US20000497414	20000203
WO0050704 A1	20000831	WO2000US03343	20000209
WO0050704 B1	20010525	WO2000US03343	20000209

Probable Assignee: EI LAND CORP

Assignee(s):(std)**:** EI LAND CORP ; FRANCIS RALPH C ; HULLS JOHN ; LANDRY JEAN JACQUES ; RICHARDSON ARTHUR B ; BOILEN KENNETH T

Assignee(s): DAVIS RORY R ; RIPE VALUE MANAGEMENT INC

Inventor(s):(std)**:** DAVIS RORY R ; HULLS JOHN ; RICHARDSON ARTHUR B ; LANDRY JEAN JACQUES ; FRANCIS RALPH C ; BOILEN KENNETH T

Inventor(s): JEAN JACQUES LANDRY ; JOHN HULLS ; KENNETH T BOILEN ; RALPH C FRANCIS ; ARTHUR B RICHARDSON

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): B60J5/12 E04H9/02 E05D15/24 E06B1/52 E06B3/48 E06B3/70 (Advanced/Invention); E05D15/24 E06B3/70 (Advanced/Non–invention)

International class (IPC 1–7): E04B1/98 E04H9/02 E05D15/38 E06B1/04 E06B9/11

CPC: E06B3/485 B60J5/12 B60J5/125 E04H9/02 E04H9/028 E05D15/24 E05Y2900/106 E06B1/522 E06B2003/7098 E05B65/0021

European class: B60J5/12 B60J5/12B E04H9/02 E05B65/00G E06B1/52B E06B3/48C P04H9/02S P05D15/24 P05Y900/106 P06B3/70X

US class: 160/133 160/201 160/229.1 160/236 49/199 49/453 52/148 52/149 52/167.3 52/204.1 52/204.100P 52/223.7 52/291 52/656.4 52/656.7 52/657 52/693 52/801.12

Classification Explorer

Cited documents: US6112799 A, US6082429 A, US6062293 A, US6041844 A, US5927019 A, US5887385 A, US5819834 A, US5765622 A, US5749407 A, US5732758 A, US5727614 A, US5697725 A, US5626176 A, US5588270 A, US5584333 A, US5584332 A, US5533561 A, US5522446 A, US5445207 A, US5394923 A, US5375382 A, US5331786 A, US5205096 A, US5022454 A, US4987941 A, US4918890 A, US4810920 A, US4723374 A, US4676293 A, US4545466 A, US4441289 A, US3516474 A, US3443625 A, US3039525 A, US2597786 A, US2124969 A, US2027831 A, US1286664 A, US1262301 A, EP0161753 A1,

Forward Citations: US9759005, US9359809, US9085901, US8985179, US8763319, US8746321, US8635820, US8490670, US8479470, US8397454, US8366083, US8327592, US8136309, US8112968, US8091317, US8001734, US7963074, US7905056, US7891152, US7788878, US7726378, US7634879, US7231742, US7150132, US6840016, US6651395, US2016160843, US2014245674, US2014027069, US2012198772, US2010313496, US2010181029, US2010032107, US2009313931, US2009241427, US2009211194, US2009184223, US2008248708, US2008216423,

US2008060285, US2008016798, US2008016793, US2007283525, US2007261314, US2007215294, US2007056694, US2007028542, US2006265981, US2006243400, US2006237151, US2005284057, US2005257451, US2005229509, US2005055897, US2002002806, US2001002529, GB2516776,

Abstract:
Source: US2002108325A In accordance with the present invention, there is provided a structural reinforcement system for reinforcing and securing an opening in a building/structure. The movable panel is further adapted to augment the shear stiffness of the building/structure when the panel is disposed in a closed position, such that the overall wall with the structural reinforcement system in accordance with the present invention has shear stiffness equal to or better than a uniform shear wall.

97) Family number: 13240763 (US2005154132A) © PatBase

Title: CROSSLINKABLE RUBBER COMPOSITIONS AND USES THEREOF

Priority:

JP19990070982	19990316	JP19990149948	19990528	JP19990209071	19990723
JP19990209070	19990723	JP19990208943	19990723	JP19990208944	19990723
JP19990209073	19990723	JP19990209074	19990723	JP19990209075	19990723
JP19990209076	19990723	JP19990209077	19990723	JP19990209078	19990723
JP19990209072	19990723	JP19990209079	19990723	JP19997098299	19990316
US20000673608	20000314	KR20007012710	20001113	WO2000JP01547	20000314
US20040002938	20041203	US20000673608	20001019	JP20000079325	20000316
WO2000JP01547	20001113				

Family:

Publication number	Publication date	Application number	Application date
CN100432137 C	20081112	CN200510055083	20000314
CN1197907 C	20050420	CN20008000327	20000314
CN1296510 A	20010523	CN20008000327	20000314
CN1318494 C	20070530	CN200510056321	20000314
CN1660928 A	20050831	CN200510056321	20000314
CN1680474 A	20051012	CN200510055083	20000314
DE60033609 D1	20070412	DE20006033609	20000314
DE60033609 T2	20071122	DE20006033609T	20000314
EP1088855 A1	20010404	EP20000908069	20000314
EP1088855 A4	20041006	EP20000908069	20000314
EP1088855 B1	20070228	EP20000908069	20000314
JP2001031789 A2	20010206	JP19990209071	19990723
JP2001031802 A2	20010206	JP19990209077	19990723
JP2001031807 A2	20010206	JP19990209070	19990723
JP2001031808 A2	20010206	JP19990209072	19990723
JP2001031809 A2	20010206	JP19990209073	19990723
JP2001031810 A2	20010206	JP19990209074	19990723
JP2001031811 A2	20010206	JP19990209075	19990723
JP2001031812 A2	20010206	JP19990209076	19990723
JP2001031813 A2	20010206	JP19990209078	19990723
JP2001031814 A2	20010206	JP19990209079	19990723
JP2001031815 A2	20010206	JP19990208943	19990723
JP2001031816 A2	20010206	JP19990208944	19990723
JP2001049057 A2	20010220	JP20000079325	20000316
JP4168219 B2	20081022	JP19990208944	19990723
JP4302243 B2	20090722	JP19990209073	19990723
JP4573928 B2	20101104	JP19990209071	19990723
KR100682809 B1	20070215	KR20007012710	20000314
KR20010025017 A	20010326	KR20007012710	20000314
TH42870 A	20010205	TH20001000817	20000315
US2005154132 AA	20050714	US20040002938	20041203
US6864315 BA	20050308	US20000673608	20001019
US7208548 BB	20070424	US20040002938	20041203
WO0055251 A1	20000921	WO2000JP01547	20000314

Probable Assignee: MITSUI CHEMICALS INC

Assignee(s):(std)**:** ARINO MITSUNAO ; HAKUTA TAKASHI ; HIRABAYASHI SATAO ; HOSOYA MIKIO ; ISHII YUJI ; MITSUI CHEMICALS INC ; KAWASAKI MASAAKI ; KIKUCHI YOSHIHARU ;

NAKAHAMA HIDENARI ; KODA TAKU ; KAMEDA HIROSHI ; NONAKA SHUICHI ; NAKAMURA TSUTOMU ; SHINETSU CHEMICAL CO ; SHINETSU CHEM IND CO ; YOSHIDA TAKEO

Assignee(s): SHIN ETSU CHEMICAL CO ; SHIN ETSU CHEMICAL CO LTD ; SHIN ESU CHEMICAL CO LTD ; SHIN ETSU CHEM CO LTD

Inventor(s):(std)**:** KANDA HIROSHI ; KAWASAKI MASAAKI ; KIKUCHI YOSHIHARU ; KODA TAKU ; KYONORI ARINO ; MIKIO HOSOYA ; NAKAHAMA HIDENARI ; NAKAMURA TSUTOMU ; NONAKA SHUICHI ; SHIRATA TAKASHI ; SHUICHI NONAKA ; TAKEO ISHII YUJIARINO KYONORIN ; TAKU KAMITA ; YOSHIDA TAKEO ; YOSHIHARU HAKUTA TAKASHI KAWAS ; YUJI ISHII ; YOSHIHARU KIKUCHI ; TAKASHI HAKUTA ; MASAAKI KAWASAKI ; TSUTOMU NAKAMURA ; TAKEO YOSHIDA ; SATAO HIRABAYASHI ; HIDENARI NAKAHAMA ; HIRABAYASHI SADAO ; HIRABAYASHI SATAO ; HIROSHI KAMEDA ; HOSOYA MIKIO ; ISHII YUJI ; ARINO MITSUNAO ; ARINO TAKAMASA ; HAKUTA TAKASHI ; KAMEDA HIROSHI

Inventor(s): KAMITA TAKU ; ARINO KYONORI ; HAKUTA TAKASHI KAWASAKI MASAAKI KIKUCHI YOSHIHARU ; ISHII YUJIARINO KYONORINAKAMURA

Agent(s): BURNS DOANE SWECKER AND MATHIS L L P

Designated states: CN DE FR GB KR US

International class (IPC 8–9): B29D23/00 B29D29/00 B29D99/00 B60J5/00 C08F210/00 C08F210/02 C08F210/18 C08F4/622 C08G77/12 C08G81/02 C08J3/24 C08J5/00 C08J5/18 C08J9/00 C08J9/04 C08J9/06 C08K3/00 C08K3/08 C08K3/10 C08K5/00 C08K5/54 C08K5/541 C08K5/5415 C08K5/5419 C08K5/5425 C08L21/00 C08L23/00 C08L23/08 C08L23/16 C08L23/18 C08L45/00 C08L83/00 C08L83/04 C08L83/05 C08L83/07 C08L83/12 C09K3/00 C09K3/10 F04B43/00 F04B53/00 F16C13/00 F16F1/36 F16F15/08 F16G1/00 F16G1/06 F16G1/28 F16G5/00 F16G5/20 F16J15/10 F16J15/20 F16J3/02 F16J3/04 F16L11/04 H01B3/28 (Advanced/Invention); C08F210/02 C08G77/12 C08L21/00 C08L83/04 C09K3/00 (Advanced/Non–invention); B29D23/00 B29D29/00 B29D99/00 C08F210/00 C08F4/00 C08G77/00 C08G81/00 C08J3/24 C08J5/00 C08J5/18 C08J9/00 C08K3/00 C08K5/00 C08L21/00 C08L23/00 C08L45/00 C08L83/00 C09K3/00 C09K3/10 F04B53/00 F16F1/36 F16F15/08 F16G1/00 F16G1/28 F16G5/00 F16J15/10 F16J15/18 F16J3/00 F16L11/04 H01B3/18 (Core/Invention); C08F210/00 C08G77/00 C09K3/00 (Core/Non–invention)

International class (IPC 1–7): B29D23/00 B29D29/00 B29D31/00 B29K83/00 B29L23/00 B29L29/00 B29L31/26 B29L31/30 B29L31/32 C08F210/02 C08F210/18 C08F4/06 C08F4/622 C08G77/12 C08G81/02 C08J3/24 C08J5/00 C08J5/18 C08J9/00 C08J9/04 C08J9/06 C08K3/00 C08K3/08 C08K3/10 C08K5/00 C08K5/541 C08K5/5415 C08K5/5419 C08K5/5425 C08L21/00 C08L23/00 C08L23/08 C08L23/16 C08L23/18 C08L45/00 C08L47/00 C08L83/00 C08L83/04 C08L83/05 C08L83/07 C08L83/12 C09K3/00 C09K3/10 F04B53/00 F16F1/36 F16F15/08 F16G1/00 F16G1/06 F16G1/28 F16G5/00 F16G5/20 F16J15/10 F16J15/20 F16J3/02 F16J3/04 F16L11/04 H01B3/28

CPC: C08K5/0025 C08L23/16 C08L83/04 C08L2312/08 C08L2314/02

European class: C08K5/00P2 C08L23/16 M08L23/16 M08L312/08 M08L314/02 M08L83/04

US class: 525/105 525/105P 525/191 525/191S 525/388 525/388S 526/282 526/282S 526/90 526/90S

Classification Explorer

Cited documents: US6111021 A, US6013729 A, US5807946 A, US5405908 A, US3814780 A, US3775452 A, US3516946 A, US3159662 A, US3159601 A, US2970150 A, US2823218 A, KR1999013885, KR19990013885 A, JP9137002 A2, JP8283492 A2, JP11130914 A2, JP10212389 A2, JP10182879 A2, GB1118327 A, EP0896982 A1, EP0892013 A1, EP0837098 A1, EP0776937 A2, CN1174857 A,

Forward Citations: WO13147104, WO12133922, WO08026628, WO07004481, WO05073298, WO05066263, WO04056174, WO04031609, WO03102062, WO03057777, WO0198407, US9776794, US9764196, US9724568, US9517885, US9493061, US9416242, US9309050, US9242800, US9211445, US9038949, US9008884, US8969481, US8954188, US8952086, US8865505, US8800926, US8530550, US8402921, US8354463, US8344067, US8309639, US8258218, US8247494, US8188191, US8177665, US8148467, US8052183, US8039538, US8034863, US8034862, US8034861, US8030387, US8030386, US8030385, US8030384, US8030383, US8028656, US7997439, US7991341, US7989700, US7966970, US7951871, US7913385, US7872075, US7741394, US7544730, US7517933, US7507777, US7452942, US7135533, US7015292, US6806336, US2016199701, US2016184655, US2015065268, US2014200297, US2014150918, US2012321875, US2011301278, US2011239410, US2011136927, US2011124814, US2011071242, US2011040037, US2010269947,

US2010235000, US2010189479, US2010116541, US2010022329, US2010004393, US2009253866, US2009234073, US2008308677, US2008274835, US2008274834, US2008274833, US2008274832, US2008274831, US2008274830, US2008274829, US2008274828, US2008274824, US2008272335, US2008268982, US2008188621, US2008114126, US2008047392, US2007213442, US2007213441, US2007213440, US2007213144, US2007137117, US2007083008, US2007021564, US2006276584, US2006172823, US2006009577, US2005228128, US2005020740, KR101185174, JP6076162, JP6069053, JP6069052, JP5892074, JP5799764, JP5765055, JP5539257, JP4932712, JP4932712, JP4916443, JP4803617, JP2016172848, JP2014181297, JP2014181296, JP2014181295, JP2014136729, JP2014065248, JP2013213102, JP2013147104, JP2013104017, JP2012224806, JP2012215248, JP2012031342, JP2012012574, JP2009520100, JP2009275085, JP2008511712, JP2008111137, JP2008111063, JP2008056723, JP2007505181, JP2007297434, JP2007296669, JP2007238783, JP2007177082, JP2007131733, JP2007040363, JP2006290917, JP2006290916, JP2006290915, JP2006290914, JP2006290913, JP2006131840, JP2005298593, JP2003012872, JP2002293975, JP2002275318, JP2002146133, JP2001348464, EP2837655, EP2837655, EP2392617, EP2261284, EP2261284, EP2093240, EP1792937, EP1757658, EP1669402, EP1666528, EP1666528, EP1571902, EP1519967, CN105551774, CN105037963, CN104379648, CN104284926, CN104136684, CN104136684, CN103534511, CN103180144, CN103180144, CN102804403, CN102191730, CN102191730,

Abstract:
Source: US2005154132A The crosslinkable rubber composition of the invention is crosslinkable by hot air, and a hot−air crosslinked rubber sheet thereof has no scratch on the surface in a hardness test using a pencil of HB and has a compression set of not more than 70 percent after a heat treatment at 150 degrees centigrade for 22 hours. The rubber composition comprises an ethylene/alpha−olefin/non−conjugated polyene random copolymer rubber comprising a specific vinyl end group−containing norbornene compound, a SiH group−containing compound having at least two SiH groups in one molecule, and if necessary, an addition reaction catalyst comprising a platinum group element and a reaction inhibitor. The automobile weatherstrip, hose, rubber vibration insulator, belt, sealing material, expanded product, covered electric wire, electric wire joint, electric insulating part and household rubber product according to the invention comprise the above−mentioned rubber composition. The rubber composition has a high crosslinking rate and excellent productivity to produce crosslinked rubber molded products, is capable of undergoing hot−air crosslinking such as HAV or UHF and is capable of providing crosslinked rubber molded products having excellent compression set resistance, strength properties, heat resistance, weathering resistance and abrasion resistance.

0) US2001009179A – COLLAPSIBLE AUTO SHADE

98) Family number: 48576813 (US2001009179A) © PatBase

Title: Collapsible auto shade

Priority:

AU20020301996	20021114	AU20020301996	20021114	AU20020301996	20021114
US20010284967P	20010419	US19990417277	19991013	US19980104703P	19981019
US20030610848	20030630	US20020118549	20020408	US20010284976P	20010420
US20020307482	20021202	US20020116946	20020408	US20010766557	20010119
US20030735967	20031215	US20030448621	20030602	US20100655677	20100105
US20060414960	20060501	US20040026990	20041230	US20060507641	20060822
US20040891682	20040713	US20040860673	20040603	US20060325995	20060105
US20040975900	20041028	US20040769254	20040130	US20060648084	20061229

Family:

Publication number	Publication date	Application number	Application date
AU2002301996 AA	20031023	AU20020301996	20021114
AU2002301996 BB	20051208	AU20020301996	20021114
AU2002301996 BH	20060112	AU20020301996	20021114
US2001009179 AA	20010726	US20010766557	20010119
US2002108726 AA	20020815	US20020118549	20020408
US2002117273 AA	20020829	US20020116946	20020408
US2003094250 AA	20030522	US20020307482	20021202
US2003196769 AA	20031023	US20030448621	20030602
US2004007336 AA	20040115	US20030610848	20030630
US2004123961 AA	20040701	US20030735967	20031215
US2004182530 AA	20040923	US20040769254	20040130
US2004221974 AA	20041111	US20040860673	20040603
US2004250968 AA	20041216	US20040891682	20040713
US2005056388 AA	20050317	US20040975900	20041028
US2005115689 AA	20050602	US20040026990	20041230
US2006113047 AA	20060601	US20060325995	20060105
US2006231220 AA	20061019	US20060414960	20060501
US2006278352 AA	20061214	US20060507641	20060822
US2007107858 AA	20070517	US20060648084	20061229
US2010108273 AA	20100506	US20100655677	20100105
US6192967 BA	20010227	US19990417277	19991013
US6561257 BB	20030513	US20010766557	20010119
US6691762 BB	20040217	US20020116946	20020408
US6705381 BB	20040316	US20020118549	20020408
US6959752 BB	20051101	US20040769254	20040130
US6976523 BB	20051220	US20030448621	20030602
US7624786 BB	20091201	US20040975900	20041028
US7748432 BB	20100706	US20040026990	20041230
US7748433 BB	20100706	US20060414960	20060501

Probable Assignee: SUNNY HUANG

Assignee(s):(std)**:** HUANG SUNNY E L ; SUNNY HUANG ; LIUNG HUANG SUNNY E ; HUANG SUNNY EN LIUNG ; HUANG SUNNY EN LUING ; HUANG SUNNY ; HUANG SUNNY E

Assignee(s): HUANG SUNNY EL ; HUUNG SUNNY EN LUING

Inventor(s):(std)**:** HUANG SUNNY ; HUANG SUNNY E ; HUANG SUNNY EN LIUNG ; HUANG SUNNY E L ; HUANG SUNNY EN LUING ; HUUNG SUNNY EN LUING ; LIUNG HUANG SUNNY E

Inventor(s): LIUNG HUANG SUNNY ; HUUNG SUNNY ; HUANG SUNNY EL ; SUNNY EN LIUNG HUANG

Agent(s):	GRIFFITH HACK; PAUL M DENK; PAUL M DENK SUITE 170; PAUL M
International class (IPC 8–9):	B60J1/20 B60J3/00 B60J3/02 (Advanced/Invention); B60J1/20 B60J3/02 (Core/Invention)
International class (IPC 1–7):	A47H3/00 B60J1/20 B60J3/00 B60J3/02
CPC:	B60J3/0208 B60J1/2011 Y10S160/02 Y10S160/18 B60J1/2091
European class:	B60J1/20B B60J1/20B3 B60J3/02B1
US class:	160/134 160/351 160/351S 160/368.1 160/370.21 160/370.210P 160/370.22 160/370.23 160/370.230P 160/84.01 160/84.07 160/DIG.18 160/DIG.2 296/97.1 296/97.7 296/97.8 296/97.9 296/977 296/978
Classification Explorer	
Cited documents:	USD301449 S1, USB15024262, US6976523 BB, US6959752 BB, US6705381 BB, US6691762 BB, US6648396 BB, US6561257 BB, US6527136 BA, US6502596 BA, US6491052 BA, US6407365 BA, US6371546 BA, US6363955 BA, US6357510 BA, US6289968 BA, US6289910 BA, US6283622 BA, US6224137 BA, US6220265 BA, US6202732 BA, US6192967 BA, US6192628 BA, US6179038 BA, US6135191 A, US6098349 A, US6095230 A, US6089245 A, US6045093 A, US5994998 A, US5979967 A, US5967161 A, US5937929 A, US5927793 A, US5901926 A, US5882059 A, US5845697 A, US5787956 A, US5785106 A, US5778955 A, US5765619 A, US5762124 A, US5694998 A, US5687786 A, US5664615 A, US5660220 A, US5657810 A, US5632318 A, US5628357 A, US5615725 A, US5598883 A, US5570735 A, US5562142 A, US5553908 A, US5427427 A, US5370145 A, US5356191 A, US5344206 A, US5333665 A, US5291934 A, US5222261 A, US5213147 A, US5207257 A, US5183092 A, US5168912 A, US5165748 A, US5158127 A, US5139070 A, US5116460 A, US5116273 A, US5101878 A, US5050661 A, US5042551 A, US5036898 A, US5035460 A, US5024262 A, US5010943 A, US5010939 A, US5010393 A, US4944548 A, US4934584 A, US4934434 A, US4913211 A, US4886104 A, US4883304 A, US4874026 A, US4862943 A, US4861090 A, US4818007 A, US4815784 A, US4790591 A, US4784215 A, US4772992 A, US4763947 A, US4759271 A, US4736980 A, US4699195 A, US4681149 A, US4671558 A, US4671334 A, US4652039 A, US4620749 A, US4608915 A, US4606572 A, US4560245 A, US4551215 A, US4512215 A, US4511215 A, US4494789 A, US4442881 A, US4440187 A, US4332414 A, US4285383 A, US4227542 A, US4205895 A, US4175647 A, US4167287 A, US4137683 A, US3740092 A, US3545805 A, US3373792 A, US3373782 A, US3336969 A, US3223098 A, US3184264 A, US3151662 A, US3088772 A, US3048048 A, US3046048 A, US3042111 A, US301449 A, US2979129 A, US2943672 A, US2942517 A, US2897002 A, US2876826 A, US2843421 A, US2788661 A, US2751977 A, US2702596 A, US2649102 A, US2643711 A, US2614630 A, US2599066 A, US2598770 A, US2596838 A, US2596836 A, US2543684 A, US2489910 A, US2489901 A, US2458125 A, US2357819 A, US2335274 A, US2065247 A, US2065242 A, US2035460 A, US2004123961 AA, US2004035738 AA, US2002108726 AA, US2001039959 AA, US2001003995 AA, US1927137 A, US1808652 A, US1790333 A, US1732447 A, US1727859 A, US1675909 A, US1475647 A, US1416304 A, US1384574 A, US1380661 A, US1378904 A, US1030493 A, JP6040254 A2, JP4269919 A2, JP294095, JP2000294095 A2, IT998689 A, IT689866 A, IT689866 A, FR1256866 A, CZ9400267 A3,
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US2008245487, US2008189999, US2008029227, US2008023156, US2008000597, US2007262606, US2007209291, US2007194598, US2007107858, US2007044399, US2007034342, US2007000532, US2006278352, US2006260231, US2006163905, US2006113047, US2006054289, US2006020668, US2005253411, US2005172988, US2005167886, US2005126716, US2005115689, US2005084651, US2005073168, US2005056388, US2005000664, US2004261959, US2004250968, US2004221974, US2004188035, US2004182530, US2004112548, US2004007336, US2003196769, US2003094250, FR2931397, EP2881302, CN105764769, CN105672857, CN102812199, CN102812199, AU2013204433, AU2002301996, AU2002301996,

Abstract:
Source: US2001009179A A collapsible automobile shade formed of fabric that pivots about a pivot point, or a pair of pivot points, as in is larger embodiment, and which are expandable into a shaped configuration for adherence, as by means of a suction cup, double face tape, or other forms of securement, to the interior of an automobile windshield, when installed, to prevent the entrance of sunlight and sun rays. The shade may be disassembled, collapsed about its pivotal ribs, into a closed configuration, in preparation for storage, as within the glove compartment, or the like. An alternative embodiment to the shade of this invention includes its fabrication from a flexible material, that has inherent memory, such as formed of MYLAR, containing a series of aligned flutes, which can be expanded to form a shade of multiple shaped configurations, but due to the inherent memory of the fluted material, can be contracted by alignment of its adjacent flutes, into a compact position, and even folded into compact closure, also for storage within the glove compartment, or the like.

99) Family number: 31957524 (US2001002451A) © PatBase

Title: METHOD AND APPARATUS FOR CONTROLLING A VEHICULAR COMPONENT

Priority:

US19920878517	19920505	US19920878571	19920505	US19930040978	19930331
US19950474783	19950607	US19950505036	19950721	US19960640068	19960430
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US20050082739	20050317	US20050039129	20050119	US20040592838P	20040730

Family:

Publication number	Publication date	Application number	Application date
US2001002451 AA	20010531	US20010753186	20010102
US2003176959 AA	20030918	US20020330938	20021227
US2005046584 AA	20050303	US20040940881	20040913
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US2008047329 AA	20080228	US20070924197	20071025
US6484080 BB	20021119	US20010753186	20010102
US6484080 C1	20080819	US20010753186	20010102
US6823244 BB	20041123	US20020330938	20021227
US7663502 BB	20100216	US20040940881	20040913

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s):(std)**:** AUTOMOTIVE TECH INT ; BREED DAVID S ; INTELLIGENT TECH INT INC

Assignee(s): AMERICAN VEHICULAR SCIENCES LLC ; INTELLIGENT TECHNOLOGIES INTERNATIONAL INC ; INTELLIGENT TECHNOLOGIES INT INC ; INTELLIGENT TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; AUTOMOTIVE TECHNOLOGIES INTIONAL

Inventor(s):(std)**:** BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C

Inventor(s): BREED DAVID ; JOHNSON WENDELL ; DUVALL WILBUR

Agent(s): BRIAN ROFFE ESQ; BRIAN

International class (IPC 8–9): B60C11/24 B60C19/00 B60C23/04 B60C23/06 B60J10/00 B60J7/057 B60K28/16 B60N2/00 B60N2/015 B60N2/02 B60N2/06 B60N2/28 B60N2/48 B60N2/66 B60Q1/14 B60R16/02 B60R16/037 B60R21/01 B60R22/20 E05F15/00 G01F23/00 G01F23/20 G01F23/296 G01G19/414 G01N11/00 G01N29/02 G01N33/00 G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/02 G01S17/88 G01S7/41 G01S7/48 G01S7/539 G06F3/023 G06K9/00 G07C5/00 G07C5/08 G08B13/14 G08B29/18 G08C19/00 H01Q1/32 (Advanced/Invention);
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B60C11/24 B60C19/00 B60C23/02 B60C23/06 B60J10/00 B60J7/04 B60N2/00 B60N2/005 B60N2/02 B60N2/06 B60N2/26 B60N2/48 B60N2/64 B60Q1/14 B60R16/02 B60R16/037 B60R21/01 B60R22/18 E05F15/00 G01F23/00 G01F23/296 G01G19/40 G01N11/00 G01N29/02 G01N33/00 G01S15/00 G01S17/00 G01S7/02 G01S7/48 G01S7/539 G06F3/023 G06K9/00 G07C5/00 G08B13/14 G08B29/00 G08C19/00 H01Q1/32 (Core/Invention);
B60R1/12 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/16 B60R21/20 B60R21/23 B60R21/26 B60R22/00 B60R22/28 B60R22/46 G01S13/00 (Core/Non–invention)

International class (IPC 1–7): G06F11/00 G06F7/00 G08C19/00

CPC: G01N35/00871 G01N2291/02836 G01N2291/02845 G01N2291/02881 B60N2002/0272 B60R21/013 B60N2/002 B60N2/015 B60N2/0244 B60N2/0248 B60N2/0252 B60N2/067 B60N2/28 B60N2/2806 B60N2/4829 B60N2/4852 B60N2/4885 B60N2/66 B60N2002/0268 B60Q1/143 B60Q2300/41 B60Q2300/42 B60R16/037 B60R21/0132 B60R21/0134 B60R21/0136 B60R21/203 B60R21/21656 B60R21/276 B60R22/20 B60R22/201 B60R25/25 B60R25/252 B60R25/255 B60R25/257 B60R2001/1223 B60R2001/1253 B60R2021/0027 B60R2021/01315 B60R2021/23153 B60R2021/26094 B60R2021/2765 B60R2022/208 B60R2022/288 B60R2022/4685 B60R2022/4825 E05Y2900/516 E05Y2900/542 E05Y2900/55 G01S7/417 G01S7/4802 G01S7/539 G01S13/04 G01S15/04 G01S15/06 G01S15/42 G01S15/87 G01S15/88 G01S17/026 G01S17/88 G01S17/89 G06F3/0219 G06F3/0233 G06F3/0237 G06F3/0238 G06K9/00362 G06K9/00624 G06K9/00832 G08B13/1427 G08B21/0286 G08B29/181 G10K2210/1282 G10K2210/3219 H01Q1/3291 G06K9/00536 B60C19/00 B60C11/24 B60C11/246 B60G2400/62 B60G2401/12 B60N2/0232 B60N2/0276 B60N2/2863 G07C5/0808 B60R21/01534 B60R21/01536 B60R21/01532 B60R21/01542 B60R21/01546 B60R21/01548 B60R21/01552 B60R21/01554 B60R2021/01088 G07B15/063 G07C5/008 G07C5/085 G08G1/205 B60R21/0152 B60R21/01516 B60R21/01538 B60R21/0153 B60R21/01544 E05F15/43 E05F15/431 E05F2015/433

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US class: 180/197 280/735 280/735S 307/9.1 340/12.25 340/13.31 340/13.310P 340/5.61 340/5.64 340/5.7 340/5.71 340/5.710S 340/7.29 340/825.22 340/825.37 340/825.69 340/825.72 455/42 455/420 455/420S 455/556.2 701/1 701/29 701/29.7 701/30.6 701/31.4 701/32.1 701/32.3 701/32.4 701/33.1 701/34 701/34.4 701/36 701/36P 701/39 701/468 701/500 73/53.01 73/53.010S 73/61.41 73/61.410P 73/625 73/625S

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Abstract:
Source: US2001002451A Control system and method for controlling a part of the vehicle in which sensor systems are mounted at different locations on the vehicle, each sensor system providing a measurement related to a state of the sensor system or a measurement related to a state of the mounting location. A processor coupled to the sensor systems diagnoses the state of the vehicle based on the measurements of the sensor system, e.g., by the application of a pattern recognition technique. The processor controls the part based at least in part on the diagnosed state of the vehicle. At least one of the sensor systems may be a high dynamic range accelerometer or a sensor selected from a group consisting of a single axis acceleration sensor, a double axis acceleration sensor, a triaxial acceleration sensor and a gyroscope, and may optionally include an RFID response unit.

0) AU199960653A – COLLAPSIBLE AUTO SHADE

100) Family number: 15369305 (AU199960653A) © PatBase

Title: COLLAPSIBLE AUTO SHADE

Priority: AU19990060653 19991125

Family:

Publication number	Publication date	Application number	Application date
AU199960653 A1	20010531	AU19990060653	19991125
AU199960653 A5	20010531	AU19990060653	19991125
AU736660 B2	20010802	AU19990060653	19991125

Probable Assignee: HUANG SUNNY EN LIUNG

Assignee(s):(std)**:** HUANG SUNNY EN LIUNG ; SUNNY EN LIUNG HUANG

Inventor(s):(std)**:** HUANG SUNNY EN LIUNG ; SUNNY EN LIUNG HUANG

Agent(s): GRIFFITH HACK

International class (IPC 8–9)**:** B60J1/20 (Advanced/Invention); B60J1/20 (Core/Invention)

International class (IPC 1–7)**:** B60J1/20

Classification Explorer

Cited documents: US5694998 A, US5660220 A, US5598883 A,

Abstract:
Source: AU199960653A OF THE DISCLOSURE A collapsible automobile shade formed of fabric that pivots about a pivot point, or a pair of pivot points, as in is larger embodiment, and which are expandable into a shaped configuration for adherence, as by means of a suction cup, double face tape, or other forms of securement, to the interior of an automobile windshield, when installed, to prevent the entrance of sunlight and sun rays. The shade may be disassembled, collapsed about its pivotal ribs, into a closed configuration, in preparation for storage, as within the glove compartment, or the like. An alternative embodiment to the shade of this invention includes its fabrication from a flexible material, that has inherent memory, such as formed of Mylar, containing a series of aligned flutes, which can be expanded to form a shade of multiple shaped configurations, but due to the inherent memory of the fluted material, can be contracted by alignment of its adjacent flutes, into a compact position, and even folded into compact closure, also for storage within the glove compartment, or the like. i a

0) DE10212150A1 – CAR PROTECTIVE COVER FIXED TO COACHWORK COMPRIS...

101) Family number: 23966528 (DE10212150A1) © PatBase

Title: Car protective cover fixed to coachwork comprises removable sectors hinged at middle join and outer and inner cover layers respectively of soft nonscratch and waterproof plastics materials.

Priority: IT2001MI00569 20010319

Family:

Publication number	Publication date	Application number	Application date
DE10212150 A1	20021024	DE20021012150	20020319
ITMI20010569 A1	20020919	IT2001MI00569	20010319

Probable Assignee: CONFEZIONI ANDREA DI TAVELLI B

Assignee(s):(std)**:** CONFEZIONI ANDREA DI TAVELLI B ; CONFEZIONI ANDREA DI TAVELLI BRUNO AND C S N C

Assignee(s): CONFEZIONI ANDREA DI TAVELLI BRUNO AND C S N C VAR ; CONFEZIONI ANDREA DI TAVELLI BRUNO AND C S N C VARESE

Inventor(s):(std)**:** TAVELLI BRUNO

International class (IPC 8–9): B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7): B60J11/00 E04H6/04

CPC: B60J11/00

European class: B60J11/00

Classification Explorer

Forward Citations: WO10083785, ITMI20122266, EP2749441, EP2676826, DE20309619, DE202012102270, DE102014213802, DE102014213802, DE102010030033,

Abstract:
A cover (10) consists of several sectors (14,22) partly removable to access the vehicle parts below (11). One side at least of the sectors (14,22) is stitched together and is hinged at the opposing side by hinges (25). The inner layer of the cover is made of soft nonscratch material as against the outer layer (13) which is made of waterproof plastics. In the front part of this layer (13) between bonnet, roof and rear window the outer layer has a part sufficiently thick to resist weather during transport. The removable sectors (14,22) are fitted round door (15), engine space and/or tank protector window. Once opened the sectors (14,22) remain fixed to the vehicle by sucker.

102) Family number: 28332838 (US2003039173A)

© PatBase

Title: METHODS FOR REDUCING RINGING OF ULTRASONIC TRANSDUCERS

Priority:

DE19944448039	19940330	DE19944492128	19940330	US19820389947	19820618
US19930040978	19930331	US19920878571	19920505	US19920878517	19920505
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s):(std)**:** AUTOMOTIVE TECH INT ; BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C ; INTELLIGENT TECH INT INC

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Inventor(s):(std)**:** CASTELLI VITTORIO ; YURCHENKO OLEKSANDR V ; JOHNSON WENDELL C ; DUVALL WILBUR E ; PIIRAINEN RAY ; MORIN JEFFREY L ; PATEL RASHIK ; DU VALL WILBUR E ; DAVIS STUART D ; BREED RYAN H ; BREED DAVID S

Inventor(s): JOHNSON WENDELL ; DUVALL WILBUR ; BREED DAVID ; DAVIS STUART ; BREED RYAN

Agent(s): BRIAN ROFFE ESQ; BRIAN; ROFFE BRIAN; BRIAN ROFFE

International class(IPC 8–9)**:** B06B1/02 B60C23/00 B60C23/04 B60H1/00 B60H1/32 B60J10/00 B60K28/00 B60K28/02 B60N2/00 B60N2/015 B60N2/02 B60N2/06 B60N2/28 B60N2/427 B60N2/48 B60N2/66 B60Q1/00 B60Q1/14 B60R1/00 B60R16/02 B60R16/037 B60R21/00 B60R21/01 B60R21/013 B60R21/015 B60R21/02 B60R21/04 B60R21/16 B60R21/18 B60R21/32 B60R22/00 B60R22/20 E05F15/00 F24F11/00 F24F7/00 G01C3/08 G01F23/00 G01F23/20 G01F23/296 G01G19/10 G01G19/414 G01J1/34 G01M17/00 G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/88 G01S7/41 G01S7/48 G01S7/539 G06F15/00 G06F17/00 G06F19/00 G06F7/00 G06F7/70 G06G7/00 G06G7/76 G06K7/00 G06K9/00 G06K9/62 G08B1/08 G08B13/14 G08B29/00 G08B29/18 G08C19/00 G09G5/00 H01J40/14 H04B1/00 H04B1/02 H04B3/00 H04N7/18 H04Q5/22 H04R3/00 H04R5/02 (Advanced/Invention);
B60R1/12 B60R21/00 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/20 B60R21/203 B60R21/215 B60R21/231 B60R21/26 B60R21/276 B60R22/28 B60R22/46 B60R22/48 G01S13/04 G01S15/04 G01S15/06 G01S17/89 G06E1/00 G06F15/18 G06K9/36 (Advanced/Non–invention);
B06B1/02 B60C23/00 B60C23/02 B60H1/00 B60J10/00 B60K28/00 B60N2/00 B60N2/005 B60N2/02 B60N2/06 B60N2/26 B60N2/42 B60N2/48 B60N2/64 B60Q1/00 B60Q1/14 B60R16/02 B60R16/037 B60R21/00 B60R21/01 B60R21/013 B60R21/015 B60R21/02 B60R21/04 B60R21/16 B60R22/00 B60R22/18 E05F15/00 F24F7/00 G01F23/00 G01F23/296 G01G19/08 G01G19/40 G01J1/10 G01M17/00 G01S15/00 G01S17/00 G01S7/02 G01S7/48 G01S7/539 G06F15/00 G06F17/00 G06F19/00 G06F7/00 G06F7/60 G06G7/00 G06K7/00 G06K9/00 G06K9/62 G08B1/00 G08B13/14 G08B29/00 G08C19/00 G09G5/00 H01J40/00 H04B1/00 H04N7/18 (Core/Invention);
B60R1/12 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/20 B60R21/23 B60R21/26 B60R22/00 B60R22/28 B60R22/46 G01S13/00 G06E1/00 G06F15/18 G06K9/36 (Core/Non–invention)

International class(IPC 1–7)**:** G01S15/00 H04B1/02

CPC: B60C23/0408 B60N2/4228 B60N2/4279 B60N2/4864 B60R21/207 B60R2021/0011 B60R2021/0048 G01S13/878 G06K7/0008 G06K7/10079 G06K17/00 G06K2017/0045 H01Q1/2208 B60C23/007 B60C23/008 B60H1/00842 F24F11/0034 B60K35/00 B60K37/06 B60K2350/1024 B60K2350/1028 B60K2350/2013 B60R21/213 B60R21/233 B60R21/235 G02B2027/0138 H01Q1/3233 H01Q1/325 B60W50/16 B62D1/046

G06Q10/06 G08B13/1427 G08B13/2462 G08B13/248 G08B21/0227 G08B21/023 G08B21/0286 G08B29/181 G06Q20/203 H04R5/02 B60R11/02 B60R11/04 B60R2011/0003 B60R2011/0005 B60R2011/0022 B60R2011/0028 E05F15/00 B60N2002/0272 Y10S367/903 B60H1/00742 E05Y2400/664 E05Y2400/85 B06B1/0215 E05Y2900/538 B60N2/0224 B60N2/0244 B60N2/0248 B60N2/0252 B60N2/0276 B60N2/28 B60N2/2806 B60N2/2863 B60N2/4885 B60N2002/0268 B60R16/037 B60R21/0134 B60R21/0136 B60R21/203 B60R21/21656 B60R21/276 B60R25/25 B60R25/252 B60R25/255 B60R25/257 B60R2001/1223 B60R2001/1253 B60R2021/01315 E05Y2900/55 G01S7/4802 G01S7/539 G01S15/04 G01S15/06 G01S15/42 G01S15/87 G01S15/88 G01S17/88 G01S17/89 B60R1/088 B60R11/0241 G01F23/0076 G01F23/20 G01F23/2962 G01S13/74 B60R11/0229 G02B27/01 G02B2027/014 G02B2027/0187 B60R21/16 E05Y2900/50 B60R21/01548 B60R21/01554 B60R21/01552 B60R25/102 B60R2325/304 B60R2021/01088 G07B15/063 G08G1/205 B60N2/015 B60N2/0232 B60N2/067 B60N2/0732 B60N2/18 B60N2/1803 B60N2/181 B60N2/1817 B60N2/482 B60N2/4829 B60N2/485 B60N2/4852 B60R2022/4808 B60R21/01546 G02B27/0149 B60R21/0154 B60R21/01544 E05F15/43 E05F15/431 E05F2015/433 E05F15/40 E05F15/73 E05F15/70 B60R21/015 B60R1/00 B60R2300/8073 G06K9/00369 B60R21/01526 B60R21/01532 B60R21/01534 B60R21/01536 B60R21/01538 G06K7/10178 B60C23/0433 Y10T137/3584 Y10T137/36 B60R21/01542 G06K9/00624 B60R21/0152 G06K9/00832 B60J7/0573 E05Y2900/516 E05Y2900/542 G01S17/026 G06F3/0219 G06F3/0233 G06F3/0237 G06F3/0238 G07C5/0808 H01Q1/3291 B60R22/20 B60R2021/0027 B60R2021/23153 B60R2021/26094 B60R2021/2765 B60R2022/208 B60R2022/4825 G10K2210/1282 G10K2210/3219 B60R22/201 B60R2022/288 B60R2022/4685 G06K9/00838 G08C17/00 B60N2/66 B60R21/017 B60R21/01512 B60R21/01516 G01S7/417 G06K9/00362 G01S15/523 H01H9/168 B60R21/013 B60R2021/01054 B60R2021/01061 B60R2021/01109 B60R2021/01184 G07C5/008 G07C5/085 G07C5/0891 G01S13/04 B60N2/002 B60J10/00 B60R21/0153

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US class: 1/1 137/223S 137/224S 152/419S 165/203 165/237 177/136 177/144 177/208 180/197P 180/268 180/271 180/272 180/273 180/274 236/49.3 236/49.300P 250/206.1 250/206.2 250/208.1 250/221 250/222.1 250/227.21 250/227.210S 250/332 280/728.1 280/728.100S 280/731 280/734 280/734P 280/735 280/735P 280/735S 280/751 280/751P 296/68.1 297/216.12 297/216.14 297/217.2 297/217.200P 307/10.1 307/9.1 307/91 340/10.1 340/12.51 340/13.24 340/13.240P 340/13.26 340/426.19 340/436 340/438 340/438P 340/442 340/442P 340/443 340/446S 340/447 340/447P 340/447S 340/457.1 340/457.100P 340/5.64 340/505S 340/539.1 340/539.100S 340/539.13 340/539.130P 340/539.14 340/540 340/568.1 340/568.100S 340/572.7 340/572.700P 340/667 340/667S 340/691.6 340/691.600S 340/8.1 340/8.100S 340/825.36 340/825.49 340/825.72 340/991 341/111 342/457 345/156 345/156P 345/7 345/8 345/8S 356/10 356/445 356/5.03 356/5.09 356/614 367/138 367/138P 367/903 381/302 381/303 381/304 381/77 381/86 381/86P 381/92 382/100 382/100P 382/103 382/104 382/104P 382/104S 382/156

382/156S 382/295 385/14 385/2 385/33 385/8 62/244 701/1 701/29 701/29.2 701/29.200S 701/29.6 701/29P 701/31.4 701/31.400P 701/32.7 701/34 701/34.4 701/34S 701/36 701/39 701/44 701/45 701/45P 701/45S 701/49 701/49P 701/70 701/70P 702/173 705/22 73/146.2 73/146.8

Classification Explorer

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US2009189997, US2009189751, US2009188323, US2009174682, US2009171531, US2009171528, US2009171525, US2009160616, US2009154770, US2009150017, US2009146474, US2009140909, US2009129593, US2009121300, US2009113772, US2009109036, US2009107771, US2009100366, US2009091435, US2009089813, US2009086987, US2009083678, US2009083674, US2009083672, US2009083671, US2009083669, US2009083666, US2009083645, US2009083626, US2009079732, US2009072627, US2009067677, US2009066499, US2009058422, US2009058126, US2009051309, US2009048742, US2009048740, US2009048522, US2009048039, US2009046538, US2009039235, US2009028353, US2009024273, US2009015394, US2009010502, US2009010207, US2009002187, US2009002145, US2008319279, US2008316312, US2008312784, US2008306798, US2008306665, US2008306649, US2008303842, US2008303663, US2008300988, US2008295152, US2008294370, US2008289895, US2008287122, US2008278309, US2008276191, US2008262780, US2008256967, US2008255722, US2008247596, US2008247575, US2008246598, US2008246318, US2008243327, US2008238678, US2008238162, US2008234889, US2008231698, US2008228358, US2008227473, US2008219274, US2008215202, US2008211684, US2008209934, US2008205333, US2008202139, US2008192008, US2008191845, US2008189053, US2008188172, US2008185825, US2008180426, US2008177458, US2008172150, US2008164838, US2008158096, US2008157940, US2008156103, US2008154815, US2008154613, US2008146895, US2008134797, US2008129475, US2008127752, US2008125940, US2008114543, US2008114517, US2008111407, US2008108292, US2008106116, US2008103944, US2008100706, US2008098823, US2008094256, US2008067841, US2008065291, US2008051996, US2008051946, US2008048930, US2008047770, US2008047329, US2008046200, US2008042477, US2008042418, US2008042410, US2008042409, US2008042408, US2008036580, US2008036252, US2008036185, US2008033785, US2008030311, US2008028846, US2008004798, US2008004776, US2007299573, US2007291892, US2007290844, US2007282768, US2007282746, US2007255469, US2007251998, US2007251749, US2007241897, US2007236450, US2007228877, US2007227203, US2007225911, US2007216123, US2007198129, US2007194900, US2007182587, US2007179686, US2007176463, US2007165967, US2007158502, US2007135982, US2007132220, US2007127811, US2007124046, US2007124045, US2007124044, US2007124043, US2007120697, US2007120347, US2007107969, US2007096446, US2007096445, US2007077896, US2007068240, US2007067082, US2007057781, US2007043493, US2007027595, US2007005202, US2006291438, US2006284839, US2006282204, US2006267321, US2006255967, US2006255618, US2006244573, US2006231320, US2006231319, US2006229779, US2006217862, US2006186713, US2006178859, US2006161321, US2006155442, US2006155441, US2006133210, US2006132306, US2006115124, US2006111821, US2006106518, US2006097748, US2006089791, US2006064238, US2006058932, US2006056663, US2006049677, US2006042851, US2006032248, US2006027185, US2006018641, US2006004681, US2005286763, US2005286059, US2005280556, US2005278097, US2005278093, US2005275554, US2005275276, US2005275258, US2005273218, US2005269810, US2005260088, US2005240329, US2005237346, US2005209756, US2005200106, US2005189159, US2005187667, US2005156457, US2005107926, US2005080533, US2005078172, US2005073136, US2005071175, US2005065681, US2004267497, US2004245036, US2004242374, US2004239874, US2004233300, US2004226378, US2004225429, US2004220705, US2004178894, US2004160319, US2004130756, US2004049578, US2003206102, US2003193404, US2003016130, US2002099567, TWI544813, TWI536750, TWI467310, TWI448668, RU2622871, RU2585119, RU2558349, RU2558349, RU2553339, RU2553339, RU2538432, KR20120034714, KR101766729, KR101721848, KR101520120, JP6011619, JP5853897, JP2014535179, JP2014032119, GB2547980, GB2539467, GB2514047, FR3047927, FR3003842, FR2958761, FR2917855, FR2917854, EP3208634, EP3041012, EP3038048, EP2975860, EP2879405, EP2824923, EP2753569, EP2738337, EP2738337, EP2642315, EP2580639, EP2580639, EP2561493, EP2472289, EP2441635, EP2291302, EP2291302, EP2182511, EP2181356, EP2181356, EP2072292, EP2018047, DE112011101891, DE102011010194, DE102011010194, DE102009034069, DE102009034068, CN105189178, CN105163240, CN104884944, CN104685901, CN104684760, CN104678688, CN104620257, CN104554080, CN104379410, CN103987649, CN103369425, CN103369425, CN103124943, CN103124662, CN103124662, CN103068599, CN103068599, CN103028243, CN102975719, CN102910130, CN102673447, CN102609125, CN102609125, CN102589565, CN102540468, CN102442479, CN102407820, CN102407820, CN102356367, CN102233836, AU2013230184, AU2008269142,

Abstract:
Source: US2003039173A Methods for reducing ringing of dual−function ultrasonic air−coupled transducers in which at least one electrical passive circuit is applied to the transducer. The circuit may be either a linear circuit or a non−linear circuit. Different circuits can be applied to the transducer when the transducer is in a transmission mode than when the transducer is in a reception mode.

0) US2004046419A – POWERED SLIDING DEVICE FOR VEHICLE SLIDING DOOR...

103) Family number: 28558662 (US2004046419A) © PatBase

Title: POWERED SLIDING DEVICE FOR VEHICLE SLIDING DOOR

Priority: JP20010331554 20011029 JP20010331555 20011029

Family:

Publication number	Publication date	Application number	Application date
JP2003129748 A2	20030508	JP20010331554	20011029
JP2003129749 A2	20030508	JP20010331555	20011029
JP3726955 B2	20051214	JP20010331554	20011029
JP3733051 B2	20060111	JP20010331555	20011029
US2004046419 AA	20040311	US20030282243	20030702
US6863336 BB	20050308	US20020282243	20021029

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Assignee(s):(std): MITSUI MINING AND SMELTING CO

Assignee(s): MITSUI MINING AND SMELTING CO LTD ; MITSUI KINZOKU ACT CORP ; MITSUI KINZOKU KOGYO K USHIKI KAISHA AB ; MITSUI KINZOKU KOGYO KABUSHIKI KAISHA ; MITSUI KINZOKU KOGYO KK

Inventor(s):(std): IMAI TAKUYA ; YOKOMORI KAZUHITO ; YOKOMORI KAZUTO

Agent(s): BROWDY AND NEIMARK PLLC

International class (IPC 8–9): B60J5/06 E05C19/16 E05F15/14 (Advanced/Invention); E05F15/14 (Advanced/Non–invention); B60J5/06 E05C19/00 E05F15/14 (Core/Invention); E05F15/14 (Core/Non–invention)

International class (IPC 1–7): B60J5/06 E05F15/14

CPC: E05F15/646 E05F5/003 B60J5/06 E05B81/20 E05Y2201/21 E05Y2201/246 E05Y2201/26 E05Y2201/266 E05Y2201/462 E05Y2201/654 E05Y2201/664 E05Y2900/531

European class: B60J5/06 E05B81/20 E05F5/00A P05F15/14F2 P05Y201/21 P05Y201/246 P05Y201/26 P05Y201/266 P05Y201/462 P05Y201/654 P05Y201/664 P05Y900/531

US class: 296/146.4 296/155 296/155P 49/360

Classification Explorer

Cited documents: US6776448 BB, US6359762 BA, US6270148 BA, US6231113 BA, US6089649 A, US6046510 A, US5913563 A, US5836639 A, US5833301 A, US5525875 A, US5316365 A, US5144769 A, US5140316 A, US2004123525 AA, US2004103585 AA, US2004070231 AA, US2003189196 AA, US2003111864 AA, US2001024093 AA,

Forward Citations: WO10075945, WO05068155, US9523231, US8479445, US7703838, US7360337, US7267391, US7151323, US7151323, US7093887, US2015061561, US2011232195, US2008233227, US2008224499, US2006225358, US2005168015, US2005167991, US2005161973, US2005039404, US2004042144, KR100783658, JP4139335, JP2010084364, JP2005199449, EP1704983, CN102257231,

Abstract:
Source: US2004046419A The present device has a wire drum connected to a sliding door through a wire cable and being rotated by the power of a motor, an electromagnetic brake which applies braking to the wire drum using a solenoid as the driving source, and a switch transistor which sends electricity to the solenoid when being turned on by a Hi signal from the output port of a controller. The interval between the solenoid and the switch transistor is connected through a line where the voltage level is raised when the switch transistor is turned off and the voltage level is lowered when the switch transistor is turned on. The line is connected through a failure detecting circuit to the input port of the controller.

0) US2007272335A – HAIL–PROTECTION NETTING FOR VEHICLES

104) Family number: 34675535 (US2007272335A) © PatBase

Title: HAIL–PROTECTION NETTING FOR VEHICLES

Priority: ES20030002734 20031117 ES20030002734U 20031117 WO2004ES00514 20041117 ES20040001155U 20040507

Family:

Publication number	Publication date	Application number	Application date
EP1688290 A1	20060809	EP20040798241	20041117
ES1056588 UA	20040416	ES20030002734U	20031117
ES1056588 Y1	20040801	ES20030002734U	20031117
ES1058288 UA	20041201	ES20040001155U	20040507
ES1058288 Y1	20050316	ES20040001155U	20040507
US2007272335 AA	20071129	US20040579718	20041117
WO05047038 A1	20050526	WO2004ES00514	20041117

Probable Assignee: MARTINEZ SANCHEZ RAFAEL

Assignee(s):(std)**:** MARTINEZ DAVID P ; MARTINEZ SANCHEZ RAFAEL ; PIQUER MARTINEZ DAVID

Inventor(s):(std)**:** MARTINEZ DAVID P ; PIQUER MARTINEZ DAVID ; MARTINEZ SANCHEZ RAFAEL

Inventor(s): MARTINEZ DAVID ; MARTINEZ DAVID PIQUER

Agent(s): FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J11/00 B65D65/02 B65D85/00 (Advanced/Invention); B60J11/00 B65D65/02 B65D85/00 (Core/Invention)

International class (IPC 1–7): B60J11/00

CPC: B60J11/00

European class: B60J11/00

US class: 150/166

Classification Explorer

Cited documents: US6648396 BB, US6415832 BA, US6220648 BA, US6056347 A, US6044881 A, US5890525 A, US5762305 A, US5738403 A, US5639524 A, US5588476 A, US5511752 A, US5197503 A, US4109957 A, US3338293 A, ES1053233 UA,

Forward Citations: WO16042472, US2015151623, US2010326017, GB2498217, GB2498217, FR3037288, FR2919531, EP1897738, AT13283,

Abstract:
Source: US2007272335A The invention relates to a hail–protection netting for vehicles. A common problem encountered in the automobile sector relates to the manner in which vehicles can be protected effectively and practically against bad weather and possible damaging impacts caused mainly by severe weather conditions such as hail. The invention is intended to address said problem and has been designed primarily such as to provide effective protection against same. In addition, the inventive netting is designed such that it can be quickly and easily mounted, removed and folded. Moreover, once folded, the reduced size of the netting enables same to be conveniently transported. The invention, which has three different embodiments, essentially comprises: a netting (1) which covers practically all of the vehicle; an intermediary body which is disposed between the netting (1) and the object to be protected, i.e. an inflatable chamber (3), suction balls (10 – 13) or an intermediary device (16); hooks (5) and grips (6) comprising suction pads which are used to fix said hooks to the parts of the vehicle where hooking is not possible; and a zip–fastened door (7) for the driver. According to the invention, the netting is fixed with the aforementioned hooks and pulled taut in order to form the final protective layer.

105) Family number: 30963630 (US2004184755A) © PatBase

Title: OPTICAL WAVEGUIDE, OPTICAL DEVICE, AND METHOD OF MANUFACTURING OPTICAL WAVEGUIDE

Priority:

EP20040002068	20040130	EP20060014368	20040130	JP20030079116	20030320
US20030455999P	20030318	US20030445999P	20030207	US20040538734	20040318
JP20070003713	20070111	US20030455999P	20030207	US20040766019	20040129
WO2004US03810	20040209	US20060501204	20060808	US20050538734	20050523
WO2004US08638	20040318	US20040776019	20040209	US20060341593	20060130

Family:

Publication number	Publication date	Application number	Application date
AU2004221347 AA	20040930	AU20040221347	20040318
AU2004221347 BB	20081009	AU20040221347	20040318
CA2515165 AA	20050804	CA20042515165	20040209
CA2519469 AA	20050916	CA20042519469	20040318
CA2519469 C	20100202	CA20042519469	20040318
DE112004000451 T5	20060216	DE200411000451T	20040318
DE602004023276 D1	20091105	DE200460023276T	20040130
DE602004033509 D1	20110908	DE200460033509T	20040130
DE602004043204 D1	20131024	DE200460043204T	20040130
EP1460458 A1	20040922	EP20040002068	20040130
EP1460458 B1	20110720	EP20040002068	20040130
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EP1589360 A3	20051102	EP20050013464	20040130
EP1589360 B1	20090923	EP20050013464	20040130
EP1705515 A2	20060927	EP20060014368	20040130
EP1705515 A3	20061018	EP20060014368	20040130
EP1705515 B1	20130828	EP20060014368	20040130
GB200520731 A0	20051123	GB20050020731	20040318
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JP2004287093 A2	20041014	JP20030079116	20030320
JP2007094440 A2	20070412	JP20070003713	20070111
JP5123528 B2	20130123	JP20070003713	20070111
NZ543045 A	20070727	NZ20040543045	20040318
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US2004245799 AA	20041209	US20040776019	20040209
US2006070377 AA	20060406	US20040538734	20040318
US2006133726 AA	20060622	US20060341593	20060130
US2007035151 AA	20070215	US20060501204	20060808
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US7155910 BB	20070102	US20040538734	20040318
US7177490 BB	20070213	US20060341593	20060130
US7252322 BB	20070807	US20060501204	20060808
WO04071795 A2	20040826	WO2004US03810	20040209
WO04071795 A3	20050721	WO2004US03810	20040209
WO04071795 C1	20050929	WO2004US03810	20040209
WO04083645 A2	20040930	WO2004US08638	20040318
WO04083645 A3	20050127	WO2004US08638	20040318

Probable Assignee:	FUJITSU LTD
Assignee(s):(std)**:**	AMERITRENDZ INC ; FUJITSU LTD ; LAST HARRY J ; RUSU WILLIAM ; HARRY LAST
Assignee(s):	HARRY J LAST ; NTC PRODUCTS LLC ; X TOP HOLDINGS LLC ; FUJITSU LTD KAWASAKI SHI ; FUJITSU KAWASAKI SHI LTD ; FUJITSU LIMITED
Inventor(s):(std)**:**	LAST HARRY J ; NAKAZAWA TADAO ; HARRY J LAST ; SUGIYAMA MASAKI ; RUSU WILLIAM
Inventor(s):	SUGIYAMA MASAKI KAWASAKI SHI ; SUGIYAMA MASAKI NAKAHARA KU KAWASAKI SHI ; LAST HARRY ; NAKAZAWA TADAO KAWASAKI SHI ; NAKAZAWA TADAO NAKAHARA KU KAWASAKI SHI
Agent(s):	GRIFFITH HACK; MACRAE AND CO; SMITHS IP; HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITLE; SAKAI AKINORI; NEWHOUSE DAVID E, TWIN OAKS OFFICE PLAZA; NEWHOUSE DAVID E TWIN OAKS OFFICE PLAZA; STAAS AND HALSEY LLP; JOHN R BENEFIEL; JOHN R; DAVID E
Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
International class (IPC 8–9)**:**	B60P7/02 B62D25/10 C03B37/022 C03B37/023 C03B37/22 C03B37/23 F15B11/00 F15B11/08 F15B11/16 F15B13/01 F15B7/00 F15B7/10 F16D31/02 G02B6/10 G02B6/12 G02B6/122 G02B6/125 G02B6/13 G02B6/134 G02B6/136 G02B6/26 G02B6/42 G02F1/035 G02F1/225 G02F1/295 (Advanced/Invention); E04H4/10 G02B6/32 (Advanced/Non–invention); B60P7/00 B62D25/10 F15B7/00 G02B6/00 G02B6/122 (Core/Invention)
International class (IPC 1–7)**:**	B60J B60P7/02 F15B11/00 F15B7/10 F16D31/02 G02B6/10 G02B6/122 G02B6/125 G02B6/13 G02B6/136 G02F1/035 G02F1/225
CPC:	B62D25/10 G02F1/2255 G02B6/12007 G02B6/1228 G02B6/125 G02B6/1342 G02B6/32 G02B6/322 G02B6/4206 G02B6/4214 G02B2006/12097 G02B2006/12119 G02B2006/12142 G02F2201/063 B60J7/1621 E05F15/56 F16D31/02 F15B7/02 F15B7/006 F15B7/008 F15B7/10 F15B2211/20561 F15B2211/613 F15B2211/7053 F15B2211/7058
European class:	B60J7/10 B60J7/16B3 B62D25/10 F15B7/00D2 F15B7/00E F15B7/02 F15B7/10 F16D31/02 G02B6/122T G02B6/125 G02B6/12A2A G02B6/12C5 G02B6/12M G02B6/134D G02B6/42C3B G02F1/035H G02F1/225H P05F15/06 R15B211/205D30 R15B211/610D R15B211/705B20 R15B211/705D S02B6/12R15 S02B6/12R6 S02B6/12S4 S02B6/32 S02B6/32B S02B6/42C3R S02F201/06A
US class:	296/100.01 296/100.010P 296/100.02 296/100.06 296/100.07 296/100.09 296/100.17 385/129 385/129P 385/129S 385/131 385/29 385/3 385/31 385/31S 385/32 385/32P 385/3S 385/9 4/502 60/475 60/475P 60/476 65/385 65/386
Classification Explorer	
Cited documents:	WO0235267 A1, WO0233457 A2, US6883855 BB, US6883855 BA, US6873636 BB, US6873636 BA, US6873636 B1, US6857683 BB, US6857683 BA, US6823118 BB, US6790689 BB, US6790689 BA, US6790689 B1, US6751953 BB, US6751953 BA, US6712418 BA, US6663160 BB, US6663160 BA, US6625371 BA, US6598930 BA, US6588826 BA, US6588825 BA, US6585309 BB, US6585309 BA, US6582006 BA, US6579068 BB, US6579068 BA, US6579068 B1, US6568739 BA, US6565141 BA, US6547310 BB, US6547310 BA, US6543836 BA, US6533343 BB, US6527330 BA, US6520559 BA, US6520558 BA, US6511570 BB, US6511570 BA, US6511570 B1, US6497445 BA, US6488329 BA, US6483966 BB, US6483966 BA, US6483966 B1, US6470678 BA, US6447045 BA, US6431633 BA, US6427500 BA, US6422635 BA, US6382700 BB, US6382700 BA, US6352296 BA, US6342828 BA, US6340194 BA, US6338520 BB, US6338520 BA, US6322128 BA, US6304685 BA, US6264266 BA, US6227602 BA, US6224140 BA, US6183035 BA, US6176541 BA, US6176541 B1, US6129407 A, US6095587 A, US6082806 A, US6076881 A, US6053558 A, US6053557 A, US6044098 A, US6042173 A, US6024402 A, US6000744 A, US5991475 A, US5984379 A, US5961173 A, US5951095 A, US5931521 A, US5872883 A, US5857729 A, US5653491 A, US5636893 A, US5632522 A, US5590226 A, US5546751 A, US5528628 A, US5526866 A, US5524165 A, US5455876 A, US5427428 A, US5420868 A, US5389922 A, US5335960 A, US5327590 A, US5216727 A, US5184357 A, US5087093 A, US4861092 A, US4851368 A, US4827866 A, US4818063 A, US4810049 A, US4807921 A, US4795206 A, US4693543 A, US4585267 A, US4565334 A, US4324429 A, US4284303 A, US4216990 A, US4124247 A, US4116530 A, US3858744

A, US2657533 A, US2005029832 AA, US2004184704 AA, US2003156327 AA, US2003128729 AA, US2003118292 AA, US2003044152 AA, US2002159739 AA, US2002146190 AA, US2002048433 AA, JPS6476012, JPS6413010, JPS6380208, JPS63306404, JPS6319620, JPS63157109, JPS63147111, JPS6053904, JPS6015606, JP9218384 A2, JP9054291 A2, JP9015545 A2, JP8327837 A2, JP64076012 A2, JP64013010 U1, JP64013010 u1, JP64013010 A2, JP6380208, JP63306404 A2, JP63306404, JP63157109 A2, JP63147111 A2, JP63080208 A2, JP63080208, JP63019620 A2, JP6209293 A2, JP6059291 A2, JP6034437 A2, JP60053904 A2, JP60015606 A2, JP5323139, JP5297333 A2, JP5232417 A2, JP5072575 A2, JP5002116 A2, JP4030107, JP3107803 A2, JP2004287093 A2, JP2003057470 A2, JP2002350915 A2, JP2002328348 A2, JP2001125157 A2, JP2001125157, JP2001004851 A2, JP2000162057 A2, JP2000147289 A2, JP1164664, JP11167032 A2, JP11167032, JP1114850, JP11135879 A2, JP11125728, JP11064664 A2, JP11064664, JP11052155 A2, JP11014850 A2, JP11014850, JP11014849 A2, JP1090638, JP10090638, JP10090543 A2, JP0430107, EP1154293 A2, EP0905836 A3, EP0905836 A2, EP0570124 B1, EP0570124, EP0364214 B1, EP0364214,

Forward Citations: WO16066132, WO10103200, WO10103200, WO10077695, WO09096237, WO08144911, WO08111407, WO07058366, USD722944, USD722552, USD687761, USD687760, USD639229, USD636718, USD631422, USD581860, USD581859, USD581858, USD581857, US9707833, US9696015, US9694656, US9623737, US9452716, US9428038, US9410631, US9352641, US9333842, US9296285, US9278611, US9039066, US8939494, US8923657, US8870190, US8774583, US8720970, US8690224, US8544934, US8438671, US8358885, US8233752, US8182021, US8150218, US8132588, US8104821, US8098997, US8061758, US7946643, US7826689, US7817879, US7801400, US7588283, US7537264, US7529447, US7509003, US7506913, US7484788, US7471853, US7463808, US7419207, US7382942, US7278674, US7212326, US7066523, US7052071, US2016243924, US2015224862, US2015197290, US2015165960, US2015165959, US2014312646, US2014232218, US2014169722, US2011311192, US2011309651, US2011221227, US2011167553, US2011148137, US2010329601, US2010193714, US2010178064, US2010158443, US2009324165, US2009310906, US2009278377, US2009238512, US2009230718, US2009202198, US2009067852, US2009058127, US2008226215, US2008197664, US2008116711, US2008100088, US2008056637, US2008019651, US2007297720, US2007210609, US2007210608, US2007108079, US2007104407, US2006207247, US2006186691, US2005264024, US2005029832, JP5708465, JP5374882, JP5195998, JP5176150, JP5166450, JP4992837, JP4899730, JP4847114, JP2013122522, JP2012053487, JP2010164642, JP2010008887, JP2009186881, JP2009090687, JP2008224740, JP2008111407, JP2008064936, JP2008026374, JP2007328257, JP2007094440, JP2007058366, JP2006154831, GB2479481, GB2479481, FR2943017, FR2898856, EP1785756, CN105003481, CN103429911, CN102298171,

Abstract:
Source: US2004184755A An optical waveguide is formed on a substrate and includes a curved ridge structure, a curved optical path, and a buffer layer. The curved ridge structure is formed on the substrate so as to have a curvature in a longitudinal direction of the curved ridge structure. The curved optical path is formed along the curved ridge structure. The buffer layer covers a side of the ridge structure and has a lower refractive index than a refractive index of the substrate.

0) US6811194B – GARNISH AND SEAL ASSEMBLY FOR A VEHICLE BODY PO...

106) Family number: 31193498 (US6811194B) © PatBase

Title: GARNISH AND SEAL ASSEMBLY FOR A VEHICLE BODY PORTION, AND METHOD OF ATTACHING SAME

Priority: US20030613163 20030703

Family:

Publication number	Publication date	Application number	Application date
US6811194 BA	20041102	US20030613163	20030703

Probable Assignee: HONDA GIKEN KOGYO KK

Assignee(s):(std)**:** HONDA MOTOR CO LTD

Assignee(s): HONDA GIKEN KOGYO K USHIKI KAISHA AB ; HONDA GIKEN KOGYO KABUSHIKI KAISHA ; HONDA GIKEN KOGYO KK

Inventor(s):(std)**:** GAERTNER BRENT ; GEISE LAWRENCE ; ONODERA KAZUO

International class (IPC 8–9)**:** B60J10/00 B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60J10/08

CPC: B60J10/265 B60J10/30 B60J10/45 B60J10/76 B60J10/84 B60J10/86

European class: B60J10/00D7B B60J10/00G B60J10/00G10 B60J10/04D B60J10/08B B60J10/08C

US class: 296/1.08 296/146.1 296/146.9

Classification Explorer

Cited documents: US6644718 BB, US6536834 BB, US6435602 BA, US6397525 BA, US6309011 BA, US6189951 BA, US6142506 A, US6131342 A, US5992924 A, US5806247 A, US5803532 A, US5735081 A, US5527583 A, US5346273 A, US5163730 A, US4653802 A, US4461507 A, US2001038227 AA,

Forward Citations: WO08037906, US9022446, US8840170, US8801070, US8640385, US8544210, US8322078, US8127501, US7841636, US7681281, US7559599, US2013127196, US2012091751, US2012091746, US2011167732, US2010194140, US2010115851, US2008179917, US2007125004, US2007024084, US2006200939, FR3038548, FR2906189, EP2885477,

Abstract:
Source: US6811194B A garnish cooperates with weather strip material to seal an opening in a vehicle body portion. The garnish has a plurality of slots formed in selected portions thereof. In one illustrative embodiment, the garnish is attachable to a door sash frame. The door sash frame is provided with a outer weather strip seal and a plurality of seal clips which are inserted through selected slots in the garnish, thereby concurrently affixing both the garnish and outer weather strip seal to the door sash frame, to contribute to a secure, efficient, and quiet seal for the vehicle opening.

0) US2005046124A – WEATHERSEAL WITH SEALING SURFACE HAVING STRIPS ...

107) Family number: 31719709 (US2005046124A) © PatBase

Title: WEATHERSEAL WITH SEALING SURFACE HAVING STRIPS OF MATERIAL EXHIBITING REDUCED ADHESION BONDING TO FROZEN WATER

Priority: US20030649463 20030826

Family:

Publication number	Publication date	Application number	Application date
US2005046124 AA	20050303	US20030649463	20030826
WO05021307 A1	20050310	WO2004US27410	20040823

Probable Assignee: SCHLEGEL CORP

Assignee(s):(std)**:** PRAVATO GEORGE R ; SCHLEGEL CORP ; ZWOLINSKI DAVID T

Assignee(s): ROYAL BANK OF SCOTLAND PLC SECURITY AGENT AS ; ROYAL BANK OF SCOTLAND PLC AS SECURITY AGENT ; BANK OF AMERICA N A ; METZELER AUTOMOTIVE PROFILE SYSTEMS IOWA INC ; METZELER AUTOMOTIVE PROFILE SYSTEMS NORTH CAROLINA ; METZELER AUTOMOTIVE PROFILE SYSTEMS NORTH CAROLINA INC ; METZELER AUTOMOTIVE PROFILE SYSTEMS OKLAHOMA INC

Inventor(s):(std)**:** PRAVATO GEORGE R ; ZWOLINSKI DAVID T

Inventor(s): PRAVATO GEORGE ; ZWOLINSKI DAVID

Agent(s): STEPHEN B SALAI ESQ HARTER SECREST AND EMERY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J10/00 B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7): B60J10/00 F16J15/02

CPC: B60J10/80 B60J10/16 B60J10/17

European class: B60J10/00C2 B60J10/00C3 B60J10/08

US class: 277/644

Classification Explorer

Cited documents: WO0005088 A1, US6849310 BB, US6679003 BB, US6401397 BB, US6368700 BA, US6245409 BA, US6098992 A, US5969022 A, US5840401 A, US5763011 A, US5562961 A, US5545448 A, US5525427 A, US5489461 A, US5489104 A, US5449544 A, US5447671 A, US5441685 A, US5424019 A, US5395579 A, US5390974 A, US5377449 A, US5366808 A, US5343655 A, US5314752 A, US5311702 A, US5306537 A, US5207029 A, US5183613 A, US5014464 A, US5013379 A, US5007202 A, US5005317 A, US4994311 A, US4970102 A, US4969293 A, US4920699 A, US4913976 A, US4800681 A, US4702039 A, US4643923 A, US4542610 A, US4538380 A, US4442156 A, US4311747 A, US4232081 A, US3939608 A, US3775907 A, US3153265 A, US2002152687 AA, US2002110663 AA, US2002064660 AA, EP0627341 A1, EP0021989 A2, DE4202475 A1, DE19860003 A1,

Forward Citations: US2005242571, FR2890032,

Abstract:
Source: US2005046124A A weatherseal has a portion of a sealing area defined by a freeze release material. The freeze release material has a lower affinity to bonding with water or ice than an adjacent area of the sealing area. The freeze release material is incorporated into the sealing portion to reduce the overall affinity of the weatherseal to ice bonding, while maintaining the desired performance characteristics of the seal including the flexibility and recovery of the sealing surface. The area of contact by the weatherseal is defined by both the freeze release material and a different material forming an adjacent portion of the weatherseal.

0) US2005247411A – DOOR COVER SYSTEMS AND METHODS

108) Family number: 32392874 (US2005247411A) © PatBase

Title: DOOR COVER SYSTEMS AND METHODS

Priority: US20040838009 20040504

Family:

Publication number	Publication date	Application number	Application date
US2005247411 AA	20051110	US20040838009	20040504

Probable Assignee: SHIM YOUNGTAK

Assignee(s):(std)**:** SHIM YOUNGTAK

Inventor(s):(std)**:** SHIM YOUNGTAK

Agent(s): YOUNGTACK SHIM

International class (IPC 8–9): B60J5/04 E06B3/48 E06B7/26 E06B9/24 (Advanced/Invention); B60J5/04 E06B3/32 E06B7/00 E06B9/24 (Core/Invention)

International class (IPC 1–7): E06B3/48

CPC: B60J5/0494 E06B7/26 E06B9/24

European class: B60J5/04L2 E06B7/26 E06B9/24

US class: 160/84.07 160/84.070

Classification Explorer

Forward Citations: WO10088376, US9186427, US9139072, US8627605, US2015202951, US2014102004, US2012312546, US2011283620, US2009074993, JP2014101110,

Abstract:
Source: US2005247411A The present invention generally relates to various door cover systems capable of covering at least a portion of a target space defined in a vicinity of a door opening of an article in order to protect a person or an object disposed in such a portion of the target space from being exposed to weather conditions or precipitations such as rain and snow. The door cover systems of the present invention are also arranged to be removed from and, accordingly, to uncover such a portion of the target space when the person or object leaves the target space. As will be described in greater detail below, such cover systems of the present invention may be practiced by numerous embodiments each of which may include one or more movable door cover members which are arranged to cover and uncover the target space in relation to movements of the doors, paths of such movements, and/or presence of the person or object in the target space. The present invention also relates to various methods of using or providing such cover systems and/or their cover members for covering such a portion of the target space. In addition, the present invention relates to various processes of making such cover systems and/or their cover members. Various door cover systems, methods, and/or processes of the present invention may be advantageously applied to conventional doors of automobiles so as to allow drivers or passengers to get into or out of the automobile without getting wet from the rain or snow. The door cover systems, methods, and/or processes of the present invention may be applied to conventional door–door opening assemblies used for other vehicles and for structures such as houses, buildings, and the like.

0) US2006124164A – COLLAPSIBLE, PORTABLE, EASILY DEPLOYED CAR COVE...

109) Family number: 33074585 (US2006124164A) © PatBase

Title: COLLAPSIBLE, PORTABLE, EASILY DEPLOYED CAR COVER

Priority: US20040011638 20041214

Family:

Publication number	Publication date	Application number	Application date
US2006124164 AA	20060615	US20040011638	20041214
US7311112 BB	20071225	US20040011638	20041214

Probable Assignee: PACHECO GIOVANNI

Assignee(s):(std)**:** PACHECO GIOVANNI

Inventor(s):(std)**:** PACHECO GIOVANNI

Agent(s): GIOVANNI PACHECO

International class (IPC 8–9): B60J11/00 E04H15/06 (Advanced/Invention); B60J11/00 E04H15/00 (Core/Invention)

CPC: B60J11/02

European class: B60J11/02

US class: 135/88.05 135/88.050 135/88.07 160/370.22 296/136.1 296/136.11 296/98

Classification Explorer

Cited documents: US6935674 BA, US6672643 BA, US6662849 BA, US5762393 A, US5462329 A, US5433499 A, US2942794 A, US2874709 A, US2859756 A, US2849012 A, US2609042 A, US1801711 A, JP57095216 A2, DE19818404 A1,

Forward Citations: WO11146966, WO09137280, WO06085325, USD622414, USD622413, US9783034, US9783033, US9663983, US9610834, US9533558, US9234381, US8684444, US8678470, US8418708, US8225807, US8087422, US7984746, US7836908, US7798162, US7784480, US7775229, US7753064, US7464982, US2017166040, US2016214472, US2016200185, US2016193905, US2013068488, US2011260494, US2011109119, US2011088855, US2009288891, US2009277595, US2009102230, US2008191511, US2008121349, US2008011435, US2006162873, NL2001699, ITVR20130071, ITFI20080187, GR1008178, EP3034344, EP2481648, CN102303506, AU2011257949,

Abstract:
Source: US2006124164A The present invention is a portable collapsible car cover assembly which includes: (a) a collapsible hollow housing with exit sheet exit apertures, which housing has a compact collapsed configuration and an extended deployed configuration; (b) a base which includes a suction cup for fastening the assembly to the roof of a car; (c) which housing contains sheets of protective material wound around rollers when the car cover assembly is collapsed and stored, and wherein the sheets are unwound to cover the trunk, passenger compartment, and hood when the assembly is fully deployed; (d) several elements for attaching the distal end of the sheets of protective material to a car; and (e) at least two security lines for attaching the housing to the car as a theft deterrent.

0) US7325859B – DOOR SASH HEADER FOR AUTOMOTIVE VEHICLE

110) Family number: 34540859 (US7325859B) © PatBase

Title: DOOR SASH HEADER FOR AUTOMOTIVE VEHICLE

Priority: US20050163621 20051025

Family:

Publication number	Publication date	Application number	Application date
CN1955436 A	20070502	CN200610140593	20061016
CN1955436 B	20120530	CN200610140593	20061016
US7325859 BA	20080205	US20050163621	20051025

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC

Assignee(s):(std)**:** FORD GLOBAL TECH LLC ; FORD GLOBAL TECHNOLOGIES LLC A

Assignee(s): FORD MOTOR CO ; FORD GLOBAL TECHNOLOGIES LLC

Inventor(s):(std)**:** BRANCALEONE ROBERT ; GREG DOBIROSKI ; KOZAK MICHAEL ; MACHIN RONALD ; MICHAEL BRANCALION ROBERT MATC ; MICHAEL KOZAK ; ROBERT BRANCALION ; RONALD MATCH ; DOBIERALSKI GREG

Inventor(s): DOBIROSKI GREG ; MATCH RONALD ; BRANCALION ROBERT ; BRANCALION ROBERT MATCH RONALD DOBIROSKI GREG ; BRANCALION ROBERT MATCH RONALD DOBIROSKI GREG KOZA ; BRANCALION ROBERT MATCH RONALD DOBIROSKI GREG KOZAK MICHAEL

Agent(s): DICKINSON WRIGHT PLLC; BEJIN GIGETTE M; GIGETTE M

International class (IPC 8–9)**:** B60J10/02 B60J5/04 E06B7/16 E06B7/26 E06B7/28 (Advanced/Invention); B60J10/02 B60J5/04 E06B7/00 E06B7/16 (Core/Invention)

CPC: B60J10/24 B60J10/265 B60J10/76 B60J10/84 B60J10/86 B60J5/0402 B60J5/0405

European class: B60J10/00D5 B60J10/00D7B B60J10/04D B60J10/08B B60J10/08C B60J5/04B2 B60J5/04B4

US class: 296/146.9 49/484.1 49/489.1

Classification Explorer

Cited documents: US6641204 BB, US6131342 A,

Forward Citations: US9254730, US9242534, US9096114, US8950121, US8322078, US2015130216, US2015130215, US2014096452, US2011204671, US2011167732, US2008282616, JP2013082284, FR2956068, EP2353909, CN105711396, CN104070279, CN103707745, CN103459175, CN103459175, CN103395355,

Abstract:
Source: US7325859B A door sash header for an automotive vehicle includes a glazing seal retainer, an external trim retention portion, and a multi–channel weatherstrip retention structure which utilizes upwardly and downwardly opening channels cooperating with the door sash to retain a weatherstrip upon the header without the need for additional fastening devices such as mechanical fasteners or adhesives.

0) US2007101668A – WINDOW ASSEMBLY FOR SCHOOL BUS

111) Family number: 34457498 (US2007101668A) © PatBase

Title: WINDOW ASSEMBLY FOR SCHOOL BUS

Priority: US20050729434P 20051021 US20060584698 20061020 US20080235670 20080923

Family:

Publication number	Publication date	Application number	Application date
US2007101668 AA	20070510	US20060584698	20061020
US2009013623 AA	20090115	US20080235670	20080923
US7427096 BB	20080923	US20060584698	20061020
US7703836 BB	20100427	US20080235670	20080923

Probable Assignee: DONNELLY CORP

Assignee(s):(std)**:** DONNELLY CORP ; HULST MICHAEL J ; SNIDER DARIN J

Inventor(s):(std)**:** HULST MICHAEL J ; SNIDER DARIN J

Inventor(s): HULST MICHAEL ; SNIDER DARIN

Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

International class (IPC 8–9): B60J1/12 E06B3/32 (Advanced/Invention); B60J1/12 E06B3/32 (Core/Invention)

CPC: B60J1/17

European class: B60J1/17

US class: 296/146.16 296/200 49/374 49/63 52/204.51

Classification Explorer

Cited documents: USRE40636 E, US7568316 BB, US7427096 BB, US7305766 BA, US7287802 BB, US7219470 BB, US7155862 BB, US7152906 BA, US7146769 BA, US7097232 BB, US7073293 BB, US7003916 BB, US6830290 BB, US6793269 BB, US6729674 BB, US6729031 BB, US6691464 BB, US6685254 BB, US6669267 BA, US6591552 BA, US6585311 BB, US6572176 BB, US6425215 BB, US6394529 BB, US6389763 BA, US6312043 BA, US6299235 BA, US6298606 BA, US6286891 BA, US6220650 BA, US6128860 A, US6082674 A, US5996285 A, US5996284 A, US5966874 A, US5935356 A, US5853895 A, US5846463 A, US5799444 A, US5791088 A, US5779956 A, US5743047 A, US5732509 A, US5704173 A, US5702148 A, US5566510 A, US5551197 A, US5442880 A, US5345719 A, US5345717 A, US5169205 A, US5139307 A, US5054242 A, US5040333 A, US4932161 A, US4875307 A, US4793099 A, US4656784 A, US4619479 A, US4608779 A, US4604830 A, US4454688 A, US4431228 A, US4364595 A, US4364214 A, US4119341 A, US4072338 A, US3186755 A, US2820992 A, US2762648 A, US2502320 A, US2455462 A, US2023699 A, US2008216410 AA, US2007157522 AA, US2006107600 AA, US2006101738 AA, US2005161975 AA, US2004100121 AA, US2004020131 AA, US2003213179 AA, US2003209922 AA, US2003182865 AA, US2003137161 AA, US2002117874 AA, US1637367 A, JP6040251 A2, FR1166064 A, EP0968862 A2, DE3118559 A1,

Forward Citations: WO16090296, USD775548, US9732551, US9382749, US9211780, US9074412, US9068392, US8985180, US8858348, US8776435, US8495841, US7930856, US7832792, US7703836, US2016167488, US2014007509, US2012212008, US2011030277, US2010257793, US2010031578, US2009241428, US2007102958,

Abstract:
Source: US2007101668A A window module for a school bus includes a frame, a fixed window panel affixed to a portion of the frame, a perimeter panel secured to another portion of the frame and defining an opening at the other portion of the frame, and a movable window panel. The movable window panel is slidably positioned at the frame such that opposite perimeter edges of the movable window panel are slidably engaged with opposite channel members of the frame. The movable window panel is movable along the channel members and interiorly of the fixed window panel when opened and interiorly of and generally at the perimeter panel when at least partially closed. The exterior surfaces of the fixed window panel and of the perimeter panel form a generally flush surface at an exterior of the school bus when the window assembly is installed at the school bus.

0) US2007119033A – AUTOMOTIVE GLASS CLAMPING SYSTEM

112) Family number: 34502309 (US2007119033A) © PatBase

Title: AUTOMOTIVE GLASS CLAMPING SYSTEM

Priority: CA20062568746 20061123 US20050740243P 20051129 US20060604714 20061128

Family:

Publication number	Publication date	Application number	Application date
CA2568746 AA	20070529	CA20062568746	20061123
US2007119033 AA	20070531	US20060604714	20061128

Probable Assignee: MINI OF PUBLIC SAFETY

Assignee(s):(std): CANADA NATURAL RESOURCES ; MINI OF PUBLIC SAFETY

Assignee(s): HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRES ; HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE HONOURABL E S ; SCHOONBAERT STEPHEN ; HER MAJESTY QUEEN IN RIGHT OF CANADA REPRESENTED BY HONOURABL E STOCKWELL DAY MINISTER OF PUBLIC SAFETY AS ; HER MAJESTY QUEEN IN RIGHT OF CANADA REPRESENTED BY HONOURABLE STOCKWELL DAY AS ; HER MAJESTY QUEEN IN RIGHT OF CANADA REPRESENTED BY HONOURABLE STOCKWELL DAY MINISTER OF PUBLIC SAFETY AS ; GRAY TODD S ; HER MAJESTY QUEEN IN RIGHT OF CANADA ; HER MAJESTY QUEEN IN RIGHT OF CANADA AS REPRESENTE ; HER MAJESTY QUEEN IN RIGHT OF CANADA REPRESENTED B ; HER MAJESTY QUEEN IN RIGHT OF CANADA REPRESENTED BY HONOURABL E S AS ; MINISTER OF PUBLIC SAFETY

Inventor(s):(std): GRAY TODD S ; SCHOONBAERT STEPHEN

Inventor(s): GRAY TODD

Agent(s): MACRAE AND CO; JONES TULLAR AND COOPER PC

International class (IPC 8–9): B60J1/08 B60J1/20 E06B3/54 E06B3/60 F16B2/02 F16B47/00 F16B5/06 (Advanced/Invention); B60J1/08 B60J1/20 E06B3/54 E06B3/58 F16B2/02 F16B47/00 F16B5/06 (Core/Invention)

CPC: Y10T24/44197 B25B5/102 B25B27/0035 F16B45/00 F16B47/00

European class: B25B27/00F B25B5/10C F16B45/00 F16B47/00

US class: 24/478 24/478P 248/544 248/544S

Classification Explorer

Cited documents: US7610666 BB, US7322092 BB, US7216411 BA, US6101702 A, US5112092 A, US4688759 A, US4670974 A, US4453303 A, US3020017 A,

Forward Citations: US8677626, US8672309, US2011089619,

Abstract:
Source: US2007119033A A clamping system for securing a sheet of automotive glass exterior to a window opening in a vehicle door includes first and second clamping units adapted for, respectively, securely supporting therebetween the sheet of automotive glass. The first clamping unit is supporting from a frame of the vehicle door and the second clamping unit is supported on an outside panel of the door. Each of the clamping units includes inner and outer clamping bars adjustably holding the sheet of automotive glass therebetween, the first clamping unit being adapted to hold the sheet adjacent an upper edge thereof and the second clamping unit being adapted to hold the sheet adjacent a lower edge thereof. The system is used in training exercises for emergency measures personnel who need to be able to break automotive glass to gain entrance to a vehicle.

0) US2007134502A – AQUEOUS DISPERSION COATING COMPOSITION HAVING N...

113) Family number: 34552936 (US2007134502A) © PatBase

Title: AQUEOUS DISPERSION COATING COMPOSITION HAVING NOISE AND/OR FRICTION ABATEMENT PROPERTIES

Priority: US20050300511 20051214 WO2006US61828 20061211

Family:

Publication number	Publication date	Application number	Application date
CA2632747 AA	20080609	CA20062632747	20061211
CN101331197 A	20081224	CN200680047428	20061211
EP1960486 A1	20080827	EP20060840178	20061211
JP2009520082 T2	20090521	JP20080545926T	20061211
RU2008128407 A	20100120	RU20080128407	20061211
RU2414499 C2	20110320	RU20080128407	20061211
US2007134502 AA	20070614	US20050300511	20051214
US7368174 BB	20080506	US20050300511	20051214
WO07070771 A1	20070621	WO2006US61828	20061211

Probable Assignee: LORD CORP

Assignee(s):(std)**:** FONDA JAMES B ; LORD CORP

Assignee(s): LORD KORPOREJSHN

Inventor(s):(std)**:** FONDA DZHEJMS B ; FONDA JAMES B

Inventor(s): FONDA JAMES

Agent(s): BLAKE CASSELS AND GRAYDON LLP; MBM INTELLECTUAL PROPERTY LAW LLP; WEBER THOMAS; LORD PATENT AND LEGAL SERVICES CORP; GALINSKI TODD W; TODD W

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B32B27/00 B32B27/40 B32B9/04 B60J10/02 B60R13/06 C08L23/00 C08L75/04 C08L83/04 C09D123/00 C09D123/04 C09D127/00 C09D175/04 C09D175/08 C09D183/04 C09D183/08 C09D5/00 (Advanced/Invention); C08G18/48 C08G77/04 (Advanced/Non–invention); B32B27/00 B32B27/40 B32B9/04 B60J10/02 B60R13/06 C08L23/00 C08L75/00 C08L83/00 C09D123/00 C09D127/00 C09D175/04 C09D175/08 C09D183/04 C09D183/08 C09D5/00 (Core/Invention); C08G18/00 C08G77/00 (Core/Non–invention)

CPC: Y10T428/31551 Y10T428/31569 Y10T428/31587 Y10T428/31663 Y10T428/31909 Y10T428/31917 C08G18/44 C08J2483/00 C08L23/00 C08L75/04 C08L83/04 C08L91/06 C09D175/06 C09D183/04 B60J10/17 B60J10/50 B60J10/80 C08J7/047

European class: B60J10/00C3 B60J10/00K B60J10/08 C08G18/44 C08J7/04L C09D175/06 C09D183/04 M08J483/00 M08L23/00 M08L75/04 M08L83/04 M08L91/06

US class: 428/423.1 428/423.9 428/424.8 428/447 428/447P 428/515 428/517 525/100 525/100S 525/101 525/106 525/453 525/455 525/474 525/474S 525/479 525/479S

Classification Explorer

Cited documents: WO04099327 A1, US6742784 BB, US6682779 BA, US6590027 BB, US6534147 BB, US6406785 BA, US6084034 A, US5844051 A, US5763011 A, US5674567 A, US5525660 A, US5525427 A, US5488092 A, US5447671 A, US5343655 A, US4987204 A, US4945123 A, US4902767 A, US4720518 A, US4572872 A, US4572871 A, US2006222870 AA, US2005215654 AA, US2005085586 AA, US2005003158 AA, US2002160203 AA, US2002064660 AA, JP8225670 A2, JP8045070 A2, JP61225222 A2, JP61155432 A2, JP61155431 A2, JP61138639 A2, JP61138638 A2, JP61138637 A2, JP61138636 A2, JP58071233 A2, JP2002069377 A2, JP2001207106 A2, JP2001039233

A2, JP11172197 A2, EP1325947 A2,

Forward Citations: WO11065433, WO11065432, WO11021354, WO09036151, WO09036151, WO09000320, US9688879, US9637913, US9394462, US9359719, US8975420, US8951933, US8871857, US8842955, US8837886, US8735467, US8703648, US8633292, US8474189, US8124684, US8028800, US7883770, US2015086713, US2011150402, US2011105679, US2011101557, US2010249264, US2009076222, US2007269607, RU2608198, KR101434764, JP5579081, JP2013170231, JP2012031263, JP2011231300, JP2011132509, JP2011042698, EP2586814, EP2586814, EP1911820, CN104152026, CN103072455, CN102990936, CN102666654, CN102549090, CN102549090, CN102504687, CN102504687, CN102407756, CN102407756,

Abstract:
Source: US2007134502A An aqueous dispersion coating for rubber and polymer substrates comprises a blend of a polysiloxane and a curable polyurethane and various additives such as a urethane crosslinking agent, a heat resistant filler, and the like. The aqueous dispersion coating reduces the noise upon contact or movement of the coated substrate with an article and maintains the initial static coefficient of friction therewith over a period of time. A desired end use is as a coating on vehicle weatherstrips such as for doors, trunks, and other enclosing articles.

0) US2007210617A – VEHICLE FRAME FOR WORK VEHICLE AND METHOD FOR M...

114) Family number: 33589335 (US2007210617A) © PatBase

Title: VEHICLE FRAME FOR WORK VEHICLE AND METHOD FOR MANUFACTURING SAME

Priority: JP20060067683 20060313 JP20060067684 20060313 US20060508118 20060822 US20100691771 20100122

Family:

Publication number	Publication date	Application number	Application date
GB200616806 A0	20061004	GB20060016806	20060824
GB2436091 A1	20070919	GB20060016806	20060824
GB2436091 B2	20080625	GB20060016806	20060824
GB2436091 B8	20081001	GB20060016806	20060824
JP2007245749 A2	20070927	JP20060067683	20060313
JP2007245750 A2	20070927	JP20060067684	20060313
JP4594883 B2	20101208	JP20060067683	20060313
JP4594884 B2	20101208	JP20060067684	20060313
KR100974975 B1	20100809	KR20080115092	20081119
KR20070093310 A	20070918	KR20060083935	20060901
KR20080104250 A	20081202	KR20080115092	20081119
US2007210617 AA	20070913	US20060508118	20060822
US2010201156 AA	20100812	US20100691771	20100122
US7677646 BB	20100316	US20060508118	20060822
US8052202 BB	20111108	US20100691771	20100122

Probable Assignee: KUBOTA CORP

Assignee(s):(std)**:** KUBOTA KK ; KUBOTA LTD

Assignee(s): KUBOTA CORP

Inventor(s):(std)**:** NAKAMURA NORIMI

Inventor(s): NORIMI NAKAMURA

Agent(s): WEBB LAW FIRM PC; WEBB LAW FIRM

International class(IPC 8–9)**:** B60J5/00 B60J5/04 B62D21/02 B62D21/12 B62D21/18 B62D23/00 B62D25/04 B62D25/08 B62D27/02 B62D33/00 B62D33/06 B62D33/077 (Advanced/Invention); B62D23/00 B62D33/00 B62D33/077 (Advanced/Non–invention); B60J5/00 B60J5/04 B62D21/02 B62D21/12 B62D21/18 B62D23/00 B62D25/04 B62D25/08 B62D27/00 B62D33/00 B62D33/06 (Core/Invention)

CPC: B62D33/06 B62D33/0617

European class: B62D23/00 B62D33/06 B62D33/06E

US class: 296/190.08 296/190.080S 296/190.11 296/190.110P 296/205

Classification Explorer

Cited documents: US7765699 BB, US7677646 BB, US6948768 BB, US6923507 BA, US6905159 BA, US6582010 BB, US6572179 BB, US6485084 BB, US6315351 BA, US6282790 BA, US6260912 BA, US6250410 BA, US6139094 A, US6092865 A, US6022070 A, US6012765 A, US5327989 A, US5273340 A, US5213386 A, US4986597 A, US4772065 A, US4605259 A, US3619535 A, US3341247 A, US3061360 A, US3055699 A, US2010117399 AA, US2009058146 AA, US2008093883 AA, US2008084091 AA, US2007214818 AA, US2006006696 AA, US2001050495 AA, JPS56129374 U, JP6211048 A2, JP62056489 U1, JP56129374 U1, JP56129374 u1, JP56129374 U, JP2006036073 A2, JP2005212521 A2, JP2004306793 A2, JP2004161114 A2, JP2002503180 T2, JP2001191958 A2, JP1202582 A2, JP11091638 A2, GB1355896 A, EP0955229 A1, DE2643156 A1,

Forward Citations: WO16060028, USD751123, USD636704, USD621423, USD607377, US9776481, US9650078, US9434244, US9216777, US9108680, US8998301, US8997908, US8973693, US8960805, US8926003, US8827028, US8414082, US8376441,

US8052202, US7938481, US7913505, US7597385, US2014090918, US2014084634, US2013270865, US2013033070, US2012217078, US2010201156, US2010019539, US2009058146, US2008093882, US2007214818, KR20160037096, KR101647926, JP6140215, JP5723452, JP5357916, JP5044500, JP4981762, JP2015143103, JP2014500819, JP2012206647, JP2010030366, JP2010030363, JP2009107389, EP2199156, CN105711387, CN104321241, CN103895709, CN103112497, CN103112497,

Abstract:
Source: US2007210617A The vehicle frame for work vehicle comprises a cabin frame that is assembled into a substantially box form and a base frame welded to the cabin frame.

0) JP2007230280A – DOOR WEATHER STRIP

115) Family number: 40502813 (JP2007230280A) © PatBase

Title: DOOR WEATHER STRIP

Priority: JP20060051752 20060228

Family:

Publication number	Publication date	Application number	Application date
JP2007230280 A2	20070913	JP20060051752	20060228
JP4735327 B2	20110727	JP20060051752	20060228

Probable Assignee: TOYODA GOSEI KK

Assignee(s):(std)**:** TOYODA GOSEI KK

Assignee(s): TOYODA GOSEI CO LTD

Inventor(s):(std)**:** GOTO TERUHITO ; MUGISHIMA SATOSHI

International class (IPC 8–9)**:** B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

Classification Explorer

Cited documents: JP2072128 U, JP2072128 A2, JP2003118390 A2, JP2003118390, JP2002059746 A2, JP2002059746,

Forward Citations: JP5893531, JP2014034385,

Abstract:
Source: JP2007230280A PROBLEM TO BE SOLVED: To provide a door weather strip firmly installed on a door frame by reducing weight of the door weather strip. SOLUTION: This door weather strip is constituted of a front vertical side sub seal part 14 installed on a front side vertical side part of a rear door 1, an upper side protruded part 11, a rear vertical side protruded part 15, a front side connecting part 12 and a rear side connecting part 13. The front vertical side sub seal part 14 is constituted of a door frame mounting part 20 and a door seal part 30. The door frame mounting part 20 is mounted on a front side head end part of the rear door 1 as its cross section is formed roughly in a cup shape and constituted of a hard material, and the door seal part 30 is formed in a lip shape, constituted of a soft material and makes contact with a rear end of the front door.

0) EP1870272A2 – VEHICLE WITH A RETRACTABLE ROOF AND A DRAINING ...

116) Family number: 40994648 (EP1870272A2) © PatBase

Title: VEHICLE WITH A RETRACTABLE ROOF AND A DRAINING STRUCTURE FOR THE RETRACTABLE ROOF

Priority: EP20070011964 20070619 JP20060168274 20060619

Family:

Publication number	Publication date	Application number	Application date
DE602007027260 D1	20130207	DE200760027260T	20070619
EP1870272 A2	20071226	EP20070011964	20070619
EP1870272 A3	20090325	EP20070011964	20070619
EP1870272 B1	20121212	EP20070011964	20070619
JP2007331678 A2	20071227	JP20060168274	20060619
JP4922672 B2	20120425	JP20060168274	20060619

Probable Assignee: WEBASTO AG

Assignee(s):(std)**:** MAZDA MOTOR ; WEBASTO AG ; WEBASTO JAPAN KK

Assignee(s): MAZDA MOTOR CORP

Inventor(s):(std)**:** TAGAMI HIROKI ; YAMADA AKIO ; TANOUE HIROKI ; TAKESHITA HIROSHI ; MATSUNOBU TOMOAKI

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

International class (IPC 8–9): B60J1/18 B60J10/00 B60J10/10 B60J7/00 B60J7/14 B60R13/07 (Advanced/Invention); B60J10/00 (Core/Invention)

CPC: B60J7/145 B60J1/1823 B60J7/0084 B60J10/25 B60J10/90 B60R13/07

European class: B60J1/18B2 B60J10/00D6 B60J10/10 B60J7/00G B60J7/14G2 B60R13/07

Classification Explorer

Cited documents: WO200354265, US2006125292 AA, US2006125292, JP2003054265 A2, JP2003054265, DE202006002765 U1

Forward Citations: WO12039033, US9694655, JP6160494, JP5435140, JP5435140, JP2015131624,

Abstract:
Source: EP1870272A2 The drainage structure consists of a rear window [23] that can move freely between a closed configuration that covers the vehicle passenger compartment [13] and an open configuration where the vehicle passenger compartment [13] is open, lower rear weatherstripping [73] that extends along the lower edge of the rear window [23] and has a rear drainage channel [733] extending in that direction, and a drainage hose [8] that connects the lower rear weatherstripping [73] with a vehicle side drain [9] that is on the side of the vehicle. The drainage hose [8] is attached so that it can rotate freely with respect to the vehicle side drain [9] and can freely move in and out, so that when the retractable roof [2] opens and closes the drainage hose rotates freely with respect to the vehicle side drain [9] and freely moves in and out.

0) EP1872993A2 – DRAINING STRUCTURE FOR RETRACTABLE ROOF ABFLUS...

117) Family number: 41013850 (EP1872993A2) © PatBase

Title: DRAINING STRUCTURE FOR RETRACTABLE ROOF

Priority: JP20060168275 20060619

Family:

Publication number	Publication date	Application number	Application date
AT459500 E	20100315	AT20070011963T	20070619
DE602007005050 D1	20100415	DE200760005050T	20070619
EP1872993 A2	20080102	EP20070011963	20070619
EP1872993 A3	20090325	EP20070011963	20070619
EP1872993 B1	20100303	EP20070011963	20070619
JP2007331679 A2	20071227	JP20060168275	20060619
JP4767100 B2	20110907	JP20060168275	20060619

Probable Assignee: NISHIKAWA RUBBER CO

Assignee(s):(std)**:** NISHIKAWA RUBBER CO LTD ; WEBASTO AG ; WEBASTO JAPAN KK

Assignee(s): NISHIKAWA RUBBER CO

Inventor(s):(std)**:** NISHIKAWA SHINJI ; ODOI KOZO ; OODOI KOUZOU ; TSUCHIDA EIJI ; TSUCHIDA HIDESHI ; YAMADA AKIO

Agent(s): THOMA MICHAEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR YU

International class (IPC 8–9): B60J10/00 B60J10/10 (Advanced/Invention); B60J10/00 (Core/Invention)

CPC: B60J10/25 B60J10/90 B60R13/07 B60J1/1823 B60J7/0084 B60J7/145

European class: B60J1/18B2 B60J10/00D6 B60J10/10 B60J7/00G B60J7/14G2 B60R13/07

Classification Explorer

Cited documents: WO200354265, US2003054265 AA, JP62064630 U, JP4331629, JP2003054265 A2, JP2003054265,

DE202006002765 U1

DE10311652 B3,

Forward Citations: WO12039033, JP5435140, JP5435140,

Abstract:
Source: EP1872993A2 To prevent water from leaking from a weatherstripping junction, a lower rear weatherstripping [73] is provided along the lower edge of the rear window [23], and lower middle weatherstripping [63] is provided along the lower edge of the middle roof panel [24]. A water collector [738] that has a collector [738a] that collects water that leaks from the junction and a drain [738b] that drains the water that is collected in the collector [738a] is provided at the junction of the lower rear weatherstripping [73] and lower middle weatherstripping [63]. Along the lower edge of the middle roof panel [24], on the vehicle passenger compartment side of the lower middle weatherstripping [63], there is provided a drainage guide [64] on which is formed an internal drainage channel [641], below the drain [738b], so that, when the retractable roof [2] is in the closed configuration, it holds the water that drains from the drain [738b] and guides it to a drain cover [79].

0) DE102007009431A1 – SUPPORTING DEVICE FOR EXAMINING REVERSE MOVEMEN...

118) Family number: 41005007 (DE102007009431A1) © PatBase

Title: SUPPORTING DEVICE FOR EXAMINING REVERSE MOVEMENT OF E.G. ENGINE DRIVEN WINDOWPANE, HAS BODY ARRANGED PERPENDICULAR TO PLANE OF PART, AND ADJUSTABLE IN POSITION BETWEEN CLOSING–DIRECTION–SIDED EDGE OF PART AND STATIONARY EDGE OF OPENING

Priority: DE200710009431 20070227

Family:

Publication number	Publication date	Application number	Application date
DE102007009431 A1	20071227	DE200710009431	20070227

Probable Assignee: DAIMLER CHRYSLER AG

Assignee(s):(std)**:** DAIMLER CHRYSLER AG

Assignee(s): DAIMLERCHRYSLER AG

Inventor(s):(std)**:** STEINFELD LUTZ

International class (IPC 8–9): B60J7/057 G01M99/00 (Advanced/Invention)

CPC: G01M99/008

European class: G01L7/10C G01M19/00 G01M99/00F

Classification Explorer

Abstract:
The device has a sliding part e.g. windowpane (1), arranged as a closing part in an opening and movable between an opened position and a closed position by an engine drive. The sliding part has a closing direction–sided edge that fits at an assigned stationary edge (2) of the opening in the closed position. An examining body (6) is arranged perpendicular to a moving plane of the sliding part and is movable at a holder, where the examining body is adjustable in a position between the closing–direction–sided edge of the sliding part and the stationary edge of the opening.

0) US2011099912A – VEHICLE DOOR FRAME STRUCTURE

119) Family number: 42348662 (US2011099912A) © PatBase

Title: VEHICLE DOOR FRAME STRUCTURE

Priority: JP20070093368 20070330 JP20070095437 20070330 JP20070117907 20070427 JP20090245582 20091026 WO2008JP56047 20080328

Family:

Publication number	Publication date	Application number	Application date
CN101663177 A	20100303	CN200880010603	20080328
CN101663177 B	20121121	CN200880010603	20080328
JP2008247283 A2	20081016	JP20070093368	20070330
JP2008254460 A2	20081023	JP20070095437	20070330
JP2008273343 A2	20081113	JP20070117907	20070427
JP2010047256 A2	20100304	JP20090245582	20091026
JP4430687 B2	20100310	JP20070095437	20070330
JP5043091 B2	20121010	JP20090245582	20091026
JP5154816 B2	20130227	JP20070093368	20070330
JP5224714 B2	20130703	JP20070117907	20070427
US2011099912 AA	20110505	US20080593645	20080328
US8458959 BB	20130611	US20080593645	20080328
WO08123409 A1	20081016	WO2008JP56047	20080328

Probable Assignee: SHIROKI CORP

Assignee(s):(std)**:** MURATA KENJI ; OHSAWA SHIGENOBU ; OHTAKE YASUHIRO ; SHIROKI CORP ; YOSHIHARA JIRO

Assignee(s): SHIROKI KOGYO CO LTD

Inventor(s):(std)**:** JIRO YOSHIHARA ; KENJI MURATA ; MURATA KENJI ; OHSAWA SHIGENOBU ; OHTAKE YASUHIRO ; SHIGENOBU OHSAWA ; YASUHIRO OHTAKE ; YOSHIHARA JIRO ; OTAKE YASUHITO ; OSAWA SHIGENOBU ; MURATA AKIYUKI

Agent(s): MILLEN WHITE ZELANO BRANIGAN P C; MILLEN WHITE ZELANO BRANIGAN PC; MIURA KUNIO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J5/04 (Advanced/Invention); B60J5/04 (Core/Invention)

CPC: B60J10/21 B60J10/86 B60J10/88 B60J5/0402

European class: B60J10/00D1 B60J10/08C B60J10/08C3 B60J5/04B2

US class: 49/479.1 49/502 49/502P

Classification Explorer

Cited documents: WOJP56047, WO08123409 A1, US7390050 BB, US7350849 BB, US7152373 BB, US7093393 BB, US6802666 BA, US5839232 A, US5718084 A, US5566510 A, US5524388 A, US5493814 A, US5127193 A, US4956941 A, US4910918 A, US4838607 A, US4729593 A, US2007084130 AA, US2005204634 AA, US2004221512 AA, US2004123526 AA, US20040123526, US1914216 A, US0123526, JPS57109014 U, JP57109014 U1, JP57109014 U, JP3276817 A2, JP3276817, JP200762637, JP200762637, JP2007062637 A2, JP2007062637, JP200607852, JP2006007852 A2, JP2006007852, JP2005313697 A2, JP2005313697, JP2005153767 A2, JP2005153767, JP2004338612 A2, JP2004338612, JP200372383, JP200372383, JP2003072383 A2, JP2003072383, JP2002127749 A2, JP2002127749, JP2001253239 A2, JP2001253239, JP1159185 A2, JP1159185, JP1159185, JP11059185 A2, JP11059185, JP1035284, JP10035284 A2, JP10035284, DE19961873 A1, DE19961873, DE10041187 A1,

DE10041187,

Forward Citations: WO16108143, WO13015271, WO13015270, US9776480, US9764625, US9656538, US9649921, US9649915, US9618123, US9566850, US9505294, US9383016, US9186964, US9027285, US8851552, US8801070, US8651557, US8458959, US8424953, US8282154, US8172125, US2016280054, US2016257183, US2016214469, US2016214468, US2016167491, US2016073527, US2015292624, US2015266364, US2015130214, US2015007504, US2014367923, US2014157602, US2014137480, US2014132028, US2013232881, US2013161976, US2013127196, US2011308171, US2010270830, JP6105910, JP5651656, JP5390835, JP2014151659, JP2014104872, JP2014088077, JP2014046792, JP2013023130, JP2010116043, JP2010111157, EP2343205, EP2343205, CN105172552, CN103786555,

Abstract:
Source: US2011099912A A vehicle door frame structure has an upper sash member located along a roof panel of a vehicle body and also has a vertical pillar sash member located along a center pillar of the vehicle body. The upper sash member has, at its linear end joined to the vertical pillar sash member side, an aesthetically designed section and an inner frame portion. The aesthetically designed section is located on the outer side of the door, and the inner frame portion is located closer to the vehicle interior than the aesthetically designed section and is shorter in length than the aesthetically designed section. The vertical pillar sash member has at its upper end a superposed contact section that is superposed, in the direction of the thickness of the door, on an end of the inner frame portion of the upper sash member, and the superposed contact section and the inner frame portion are joined together while being superposed on each other.

0) US2009230723A – VEHICLE CLOSURE ASSEMBLY WITH SHAPE MEMORY POLY...

120) Family number: 43748561 (US2009230723A) © PatBase

Title: VEHICLE CLOSURE ASSEMBLY WITH SHAPE MEMORY POLYMER SEAL

Priority: US20080046658 20080312

Family:

Publication number	Publication date	Application number	Application date
CN101531130 A	20090916	CN200910128605	20090312
DE102009012110 A1	20091203	DE200910012110	20090306
US2009230723 AA	20090917	US20080046658	20080312
US7845707 BB	20101207	US20080046658	20080312

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std)**:** GM GLOBAL TECH OPERATIONS INC

Assignee(s): UNITED STATES DEPARTMENT OF TREASURY ; UAW RETIREE MEDICAL BENEFITS TRUST ; WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; CITICORP USA INC ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED P ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED PARTIES AS ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED PARTIES AS ; GM GLOBAL TECHNOLOGY OPERATIONS INC

Inventor(s):(std)**:** CHANG HOUNG YUE ; CHANG HUONG YUE ; HUANG YUEH SE J ; PEI CHUNG WANG ; TURNER PHILLIP M ; WANG PEI CHUNG ; YUE CHANG HOUNG

Agent(s): QUINN LAW GROUP PLLC

International class (IPC 8–9): B60J10/08 B60J5/04 (Advanced/Invention); B60J10/00 B60J5/04 (Core/Invention)

CPC: B60J10/80 C08L2201/12

European class: B60J10/08 M08L201/12

US class: 277/628 277/644 277/645 277/646 296/146.9 296/146.900P 49/477.1 52/2.14

Classification Explorer

Cited documents: US7484735 BB, US6966601 BB, US6846034 BA, US6702301 BA, US6098992 A, US5012615 A, US4761917 A, US4579192 A, US3542375 A, US2009255187 AA, US2005275243 AA, US2005230925 AA, US2005212304 AA, US2005206096 AA, US2005206095 AA, US2005199440 AA, US2005198904 AA, US2004100035 AA,

Forward Citations: WO13116121, US9676261, US9382808, US9162644, US8556334, US8215700, US2014203593, US2013312330, EP2910822, CN102686429,

Abstract:
Source: US2009230723A A closure assembly with a shape memory polymer seal is provided for use with a vehicle. The closure assembly includes a frame member configured for attachment to the vehicle body to selectively transition from a closed position to an open position. The seal structure includes a base portion elongated along and attached to a peripheral edge of the frame member or the vehicle body, and a flexible contact portion extending integrally from the base portion and configured for sealing communication with an opposing surface. A thermally–activated smart material (TASM), namely a shape memory polymer member, is disposed inside a cavity within the contact portion. A thermoelectric device is in thermal communication with the TASM, and is characterized by a thermal differential when current flows therethrough. The TASM is activated in response to the thermal differential of the thermoelectric device, thereby altering at least one physical property of the TASM.

0) US2009260665A – VENTILATOR FOR VENTING COVERS

121) Family number: 43746748 (US2009260665A) © PatBase

Title: VENTILATOR FOR VENTING COVERS

Priority: US20080035345P 20080310 US20080059757P 20080607 US20090400952 20090310 US20110090444 20110420 US20110385453F 20110214 US20090464045 20090511 WO2009US36711 20090310 US20130949527 20130724 US20120416183F 20120320 US20130455317F 20130520 WO2014US31266 20140319

Family:

Publication number	Publication date	Application number	Application date
EP3024719 A2	20160601	EP20140800916	20140319
EP3024719 A4	20170104	EP20140800916	20140319
GB201017052 A0	20101124	GB20100017052	20090310
GB2471049 A1	20101215	GB20100017052	20090310
GB2471049 B2	20130306	GB20100017052	20090310
US2009260665 AA	20091022	US20090400952	20090310
US2011192436 AA	20110811	US20110090444	20110420
US2014020799 AA	20140123	US20130949527	20130724
US8069870 BB	20111206	US20090400952	20090310
US8220474 BB	20120717	US20110090444	20110420
USD712730 S1	20140909	US20120416183F	20120320
USD719431 S1	20141216	US20130455317F	20130520
WO09114563 A2	20090917	WO2009US36711	20090310
WO09114563 A3	20100107	WO2009US36711	20090310
WO14189608 A2	20141127	WO2014US31266	20140319
WO14189608 A3	20150416	WO2014US31266	20140319

Probable Assignee: GRIDLEY WILLIAM

Assignee(s):(std)**:** GRIDLEY WILLIAM ; GRIDLEY WILLIAM E

Assignee(s): WILLIAM E GRIDLEY

Inventor(s):(std)**:** GRIDLEY WILLIAM ; GRIDLEY WILLIAM E

Inventor(s): WILLIAM E GRIDLEY

Agent(s): WHITAKER IAIN MARK; SIMMONS PATENTS; MONTY; SIMMONS WILLIAM MONTY

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J11/00 B63B19/04 B63J2/00 B63J2/02 E04H15/16 E04H15/32 F16B5/06 F16C11/06 F24F13/20 F24F7/02 (Advanced/Invention); B63J2/00 E04H15/00 (Core/Invention)

CPC: Y10S135/905 B60J11/00 F16C11/06 B63B17/02 F16C11/0604 F16C11/0623 F16C11/069 F16C2326/30 F16C2350/00 Y10T403/32204 Y10T403/32606 Y10T403/32631 B60J11/04 E04H15/16 B63J2/04 F24F7/02 F24F2007/003 Y02T70/72 B63B19/06 B63J2/02 E04H15/32 F16B5/0607 F16C2326/20

European class: B63J2/04 F24F7/02 R24F7/00E Y02T70/72

US class: 135/119 135/135 135/147 135/905 135/94 135/94P 135/98 150/166 403/119 403/122 403/77 454/368 52/63 D8/396 D8/90

Locarno class: 08/08 08/05

Classification Explorer

Cited documents: WO09114563 A2, USD680844 S1, USD659503 S1, USD652283 S1, USD584604 S1, USD580262 S1, USD577423 S1, USD512295 S1, USD392860 S1, USD369080 S1, USD346944 S1, USD311318 S1, US7815494 BB, US7607447 BA, US7487787 BB, US7353731 BB, US7044145 BB, US6948878 BA, US6938631 BB, US6575184 BB, US6523558 BA, US6345639 BB, US6199572 BA, US6152434 A, US6053805 A, US5479836 A, US5369856 A, US5036874 A, US5036627 A, US5031568 A, US5031566 A, US4949928 A, US4844108 A, US4516360 A, US4379468 A, US4148332 A, US4062152 A, US4038997 A, US4033366 A, US3561174 A, US3425428 A, US2314830 A, US2011192436 AA, US2010194162 AA, US2010127472 AA, US2009278016 AA, US2009260665 AA, US2009007529 AA, US2005049720 AA, US2003230330 AA, DE408806 A,

DE102009016755 A1

Forward Citations: WO14189608, USD798699, USD780861, USD780860, USD774815, USD770162, USD736884, USD723262, USD712730, USD661981, US9797157, US9683387, US9528292, US9352642, US9016295, US2014283891, US2013180559, US2011203624, US2009253359, EP3024719,

Abstract:
Source: US2009260665A Disclosed is an improved ventilator apparatus for vehicle covers. The apparatus comprises a dome section that is associated with a first ventilator plate on the outside of a vehicle cover. The Dome section extends through the vehicle cover where it is associated with a second ventilator plate. A nut is used to releasably associate the component pieces together so that a portion of the vehicle cover is clamped between the first ventilator plate and the second ventilator plate. Both the first ventilator plate and second ventilator plate are configured so that either plate may be used on the inside or outside of the cover. The improved ventilator plate design comprises air vents disposed within the plate so that water on a top surface of the ventilator plate cannot run into the vent openings. In addition, support gussets have been redesigned so provide an improved venturi action that tends to suck air through the vent opening when air blows across the vent openings.

0) US2011017412A – REVERSIBLE SUNSHADE

122) Family number: 48203032 (US2011017412A) © PatBase

Title: REVERSIBLE SUNSHADE

Priority: CA20102709796 20100715 US20090506363 20090721

Family:

Publication number	Publication date	Application number	Application date
CA2709796 AA	20110121	CA20102709796	20100715
US2011017412 AA	20110127	US20090506363	20090721

Probable Assignee: MACNEIL IP LLC

Assignee(s):(std)**:** MACNEIL DAVID F ; MACNEIL IP LLC

Inventor(s):(std)**:** MACNEIL DAVID F

Agent(s): PERRY AND CURRIER; MOMKUS MCCLUSKEY LLC

International class (IPC 8–9)**:** B60J3/00 E06B9/24 F16B47/00 (Advanced/Invention)

CPC: B60J1/2011 E06B9/24 F16B47/00

European class: B60J1/20B E06B9/24 F16B47/00

US class: 160/370.21 160/370.210P 248/206.2 248/206.200S 296/1.07 296/1.070S

Classification Explorer

Cited documents: US7163182 BB, US6997501 BB, US6648285 BA, US6375143 BA, US5762305 A, US5611511 A, US5405112 A, US5183094 A, US4986343 A, US4972892 A, US4846429 A, US4784215 A, US4775180 A, US4671334 A, US4560245 A,

Forward Citations: USD666136, USD665721, US9612368, US9434325, US8342227, US2016077245, US2012061041, US2012049563,

Abstract:
Source: US2011017412A A reversible sunshade for keeping the interior of a vehicle cool in the summer or heating the interior in the winter has at least one panel with a light–reflective surface and a light–absorbing surface. The sunshade may be attached to the windshield of a vehicle with suction cups that extend through holes in the panel.

0) US2012193341A – COATED DISK HAVING A HEATABLE COMMUNICATION WIN...

123) Family number: 49051076 (US2012193341A) © PatBase

Title: COATED DISK HAVING A HEATABLE COMMUNICATION WINDOW

Priority: EP20090178862 20091211 EP20100790378 20101203 WO2010EP68810 20101203

Family:

Publication number	Publication date	Application number	Application date
CN102640562 A	20120815	CN201080056132	20101203
CN102640562 B	20150826	CN201080056132	20101203
DE502010011089 D1	20160331	DE201050011089T	20101203
EA022664 B1	20160229	EA20120090486	20101203
EA201290486 A1	20121130	EA20120090486	20101203
EP2334141 A1	20110615	EP20090178862	20091211
EP2510745 A1	20121017	EP20100790378	20101203
EP2510745 B1	20160217	EP20100790378	20101203
ES2563749 T3	20160316	ES20100790378T	20101203
IN00786KN2012 A	20160826	IN2012KN00786	20120402
JP2013513538 T2	20130422	JP20120542465T	20101203
JP5859452 B2	20160210	JP20120542465T	20101203
KR20120112453 A	20121011	KR20127014835	20101203
TR201604641 T4	20160523	TR20160004641T	20101203
US2012193341 AA	20120802	US20100500862	20101203
US8809742 BB	20140819	US20100500862	20101203
WO11069901 A1	20110616	WO2010EP68810	20101203

Probable Assignee: SAINT GOBAIN

Assignee(s):(std)**:** LESAGE JEAN LUC ; LISINSKI SUSANNE ; PHAN DANG CUONG ; REUL BERNHARD ; SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; SCHALL GUENTHER ; SAINT GOBAIN LINAK AS ; SAINT GOBAIN SA

Inventor(s):(std)**:** BERNHARD REUL ; CUONG PHAN DANG ; GUENTHER SCHALL ; JEAN LUC LESAGE ; LESAGE JEAN LUC ; LISINSKI SUSANNE ; PHAN DANG CUONG ; REUL BERNHARD ; SCHALL GUENTHER ; SUSANNE LISINSKI

Agent(s): LENDVAI TOMAS DIPL CHEM DRRERNAT; LENDVAI TOMAS; KAWAGUTI AND PARTNERS; ELISAVET YAKOVIDIS CINLEMEZ; STEINFL AND BRUNO LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B32B17/10 B60J1/20 B60L1/02 B60S1/02 C03C17/34 H05B3/00 H05B3/84 (Advanced/Invention); E06B7/00 (Advanced/Non–invention)

CPC: H05B3/84 B32B17/10036 B32B17/10174 H05B2203/008 H05B2203/016 Y10T29/49083 H01B5/14 H05B3/265 H05B3/56 H05B2203/017 H05B2214/02 H05B2203/013

European class: H05B3/84 T05B203/008 T05B203/016

US class: 219/203 219/522 29/611 29/611S

Classification Explorer

Cited documents: WO11006743 A1, WO11006743, WO09087417 A1, WO09087417, WO05011052 A2, WO04051869 A2, WO03024155 A2, WO03024155, WO0168395 A1, WO0072635 A1, US7731373 BB, US7223940 BB, US6860081 BB, US6765177 BB, US2006202897 AA, US2003116551 AA, US2003116551, US0116551, JP62185153 A2, JP62185153, JP53000435 U1, JP51134654 U1, JP51134654 U, JP51134654 U, JP2009522158 T2, JP2009522158, JP2009061806 A2, JP2008056225 A2, JP2008056225, JP2006168728

A2, JP2006168728, JP2003163071 A2, JP2003163071, JP2002020142 A2, JP2002020142, JP10212137 A2, EP2325002 A1, EP1672960 A1, EP1605729 A2, EP1605729, EP1466877 A1, EP1168888 A2, EP0876083 A2, EP0876083, EP01605729, EP00876083,

DE202005016384 U1

DE202005016384 U, CN1856901 A,

Forward Citations: WO15158462, WO15158461, WO12031908, WO12031907, US9683885, US9625685, US9526130, US9100996, US2013301118, US2013213949, KR101782700, JP2016508108, JP2013541807, JP2013541138, EA023042, DE102013007381, DE102012018001, CN105376883, CN105338673, CN105338671, CN105008300, CN102975431, CN102975431, CN102812776, CN102812776, CN102510592,

Abstract:
Source: US2012193341A A transparent disk that can be electrically heated over a large surface area, comprising: a large−surface−area, electrically conductive, transparent coating, which is applied to a transparent substrate, at least two bus ribbons, which are electrically connected to the electrically conductive transparent coating, at least one locally delimited region free from the coating, wherein at least one heating conductor having two poles is applied inside the free region, and wherein the first pole is electrically connected to the electrically conductive, transparent coating and the second pole is electrically connected to the electrically conductive, transparent coating or a bus ribbon. A method for the production of the disk is also described.

0) DE102009058136A1 – EDGE SEALED SUBSTRATE LAYER COMPOSITE PANEL SUC...

124) Family number: 49069149 (DE102009058136A1) © PatBase

Title: EDGE SEALED SUBSTRATE LAYER COMPOSITE PANEL SUCH AS COMPOSITE SAFETY GLASS, COMPRISES TWO TRANSPARENT SUBSTRATE LAYERS, AND A FUNCTIONAL FILM–COMPOSITE ELEMENT, WHICH IS ARRANGED BETWEEN THE TRANSPARENT SUBSTRATE LAYERS

Priority: DE200910058136 20091212

Family:

Publication number	Publication date	Application number	Application date
DE102009058136 A1	20110616	DE200910058136	20091212

Probable Assignee: DAIMLER AG

Assignee(s):(std)**:** DAIMLER AG

Inventor(s):(std)**:** MOLL JANA ; LEHNER ERICH ; EISENBRAUN SEBASTIAN

International class (IPC 8–9): B32B17/10 B32B7/00 B60J1/00 C03C27/12 (Advanced/Invention)

CPC: B32B17/10302 B32B17/10036 B32B17/10174 B32B17/10761

European class: B32B17/10C4 B32B17/10E10 B32B17/10E16B B32B17/10G28

Classification Explorer

Cited documents: WO04092807 A2, US2008310007 AA, US2008018979 AA,

DE102004049091 A1

Forward Citations: WO15169563, WO14090550, WO14084725, NL2009706, NL2009705, DE102015007160,

Abstract:
The edge sealed substrate layer composite panel comprises two transparent substrate layers (2, 2'), and a functional film–composite element, which is arranged between the transparent substrate layers, where an area expansion of the transparent substrate layer is greater than the functional film–composite element. A sealing means is extensively arranged along the edge surface of the functional film–composite element and provides an edge sealing of the substrate layer composite panel. The functional film–composite element consists of two laminating film layers. The edge sealed substrate layer composite panel comprises two transparent substrate layers (2, 2'), and a functional film–composite element, which is arranged between the transparent substrate layers, where an area expansion of the transparent substrate layer is greater than the functional film–composite element. A sealing means is extensively arranged along the edge surface of the functional film–composite element and provides an edge sealing of the substrate layer composite panel. The functional film–composite element consists of two laminating film layers between which a function film (3) is completely embedded so that the edge surface of the functional film–composite element directly passes on the sealing means for plant through which the laminating film layers are provided. The two transparent substrate layers are congruent and the functional film–composite element is arranged between both sides of the substrate panes. A split having a depth is provided between the substrate layers in which the sealing means is completely incorporated as an inner sealing means. The sealing means is completely arranged along the edge surface of the functional film–composite element and is additionally arranged along the edge surface of substrate layers and a sealing grip is provided on the edge of the substrate layer laminated panel. The inner sealing means is provided through a sealing cord or a sealing band equipped with adhesive surfaces made of elastomer material such as butyl and silicone, and a plastic material or a metallic material such as aluminum. The sealing grip is provided through a metal band flexibly to a wrap–around profile with adhesive surface turned to the substrate layer and laminated film (11), and seal coating layer or through an overmolding with a sprayable material such as thermoplastic elastomers. A barrier layer applied in a plasma chamber through sputtering and/or polysiloxane barrier layer surrounds the functional film of the functional film–composite element and/or an edge seal is arranged on an edge of the functional film of the functional film–composite element. A weather strip made of an elastomeric material such as rubber, and thermoplastic elastomer is arranged along an edge of the substrate layer and provides a spaced wrap–around sealing around the substrate layer and the functional film–composite element. An independent claim is included for a method for producing a functional film with a barrier layer for substrate layer laminated panel.

0) US2011240074A – UMBRELLA FOR AUTOMOBILE

125) Family number: 49698162 (US2011240074A) © PatBase

Title: UMBRELLA FOR AUTOMOBILE

Priority: US20100751878 20100331 US20120434489 20120329

Family:

Publication number	Publication date	Application number	Application date
US2011240074 AA	20111006	US20100751878	20100331
US2012180836 AA	20120719	US20120434489	20120329
US8276607 BB	20121002	US20100751878	20100331
US8387640 BB	20130305	US20120434489	20120329
WO11126691 A2	20111013	WO2011US28718	20110316
WO11126691 A3	20120119	WO2011US28718	20110316
WO13148952 A1	20131003	WO2013US34282	20130328

Probable Assignee: KIM JONATHAN

Assignee(s):(std)**:** KIM JONATHAN

Inventor(s):(std)**:** KIM JONATHAN

Agent(s): PARK LAW FIRM; JOHN K; LEE CHOONGSEOP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A45B25/00 B60J1/20 B60J11/02 B60J5/00 B60J5/04 B60J9/00 E04H15/06 (Advanced/Invention)

CPC: A45B11/00 A45B19/00 A45B23/00 A45B2023/0025 A45B2023/0093 B60J5/0494

European class: A45B11/00 A45B19/00 A45B23/00 K45B23/00D K45B23/00Z

US class: 135/20.3 135/20.300P 135/88.07 135/88.09 135/88.090P 135/903 296/139 296/154

Classification Explorer

Cited documents: USD492640 S1, US8240323 BB, US7819458 BB, US7641259 BB, US7604281 BA, US6948766 BA, US6341811 BA, US6044856 A, US6006811 A, US5800004 A, US5725004 A, US5476302 A, US4807920 A, US4378888 A, US2426113 A, US2012060345 AA, US2011240074 AA, US2011010920 AA, US2010078960 AA, US2007241586 AA, US2003192581 AA, KR20120011152 A, KR19980011300 U, JP63207720 A2, JP3153872 U, JP3153872 B2, JP2000158948 A2,

Forward Citations: WO13148952, US9468273, US9403426, US9174586, US9090153, US8387640, US2012180836, CN104354577, CN104175845,

Abstract:
Source: US2011240074A A retractable umbrella includes a retractable tube, a pulling rod, a rainshade screen, and a drip water collector. The retractable tube comprises retractable reels, and it is attached on a door frame of a car. Each of the retractable reels is disposed in the retractable tube. The pulling rod is attached to a rim portion of the door accepting frame of the car. The rainshade screen comprises an outer edge, an inner edge, a front edge, and a rear edge. The outer edge is attached to the retractable reels of the retractable tube. The inner edge is attached to the pulling rod. The front edge connects front portions of the inner and outer edges. The rear edge connects rear portions of the inner and outer edges. The drip water collector collects water dripped from the rainshade screen, and is disposed at an inner portion of door of the car.

0) DE202010011451U1 – SCHUTZUTENSIL ZUM SCHUTZ EINER TUER EINES KRAFT...

126) Family number: 50462897 (DE202010011451U1) © PatBase

Title: Schutzutensil zum Schutz einer Tuer eines Kraftfahrzeugs

Priority: DE201020011451U 20100817 DE201110081105 20110817

Family:

Publication number	Publication date	Application number	Application date
DE102011081105 A1	20120412	DE201110081105	20110817
DE202010011451 U1	20120112	DE201020011451U	20100817

Probable Assignee: REISER ECKART

Assignee(s):(std)**:** REISER ECKART

Assignee(s): REISER

Inventor(s):(std)**:** REISER ECKART

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention)

CPC: B60J11/06

European class: B60J11/06

Classification Explorer

Forward Citations: DE202015001025,

Abstract:
Source: DE202010011451U1 Schutzutensil zum Schutz einer Tuer eines Kraftfahrzeugs, das Schutzutensil umfassend: a) ein kissen– oder mattenartiges, an die Tuer aussen anlegbares Flaechengebilde (1) b) und wenigstens eine mit dem Flaechengebilde (1) verbundene Haltestruktur (2, 3, 4, 5, 6) fuer die Befestigung des Flaechengebildes (1) am Kraftfahrzeug, c) wobei die Haltestruktur (2, 3, 4, 5, 6) dafuer eingerichtet ist, das Flaechengebilde (1) bei geschlossenem Kraftfahrzeug an einer Seite des Kraftfahrzeugs loesbar zu befestigen.

0) US2013106133A – ROLL UP PICK–UP TRUCK BOX COVER WITH LOCK DOWN ...

127) Family number: 53652831 (US2013106133A) © PatBase

Title: ROLL UP PICK–UP TRUCK BOX COVER WITH LOCK DOWN SLATS

Priority: CA20122792587 20121022 US20110553814P 20111031 US20110553828P 20111031 US20110553885P 20111031 US20120602280P 20120223 US20120621921P 20120409 US20120653766 20121017 US20130011523 20130827 US20150590121 20150106 US20160005335 20160125

Family:

Publication number	Publication date	Application number	Application date
CA2792587 AA	20130430	CA20122792587	20121022
US2013106133 AA	20130502	US20120653766	20121017
US2013341954 AA	20131226	US20130011523	20130827
US2015108784 AA	20150423	US20150590121	20150106
US2016137042 AA	20160519	US20160005335	20160125
US8544934 BB	20131001	US20120653766	20121017
US8939494 BB	20150127	US20130011523	20130827
US9278611 BB	20160308	US20150590121	20150106
US9694656 BB	20170704	US20160005335	20160125

Probable Assignee: LAURMARK ENTERPRISES INC

Assignee(s):(std)**:** MAIMIN ISRAEL ; MAIMIN JULIAN ; LAURMARK ENTPR INC

Assignee(s): JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; JEFFERIES FINANCE LLC ADMINISTRATIVE AND COLLATERAL AGENT AS ; BEDRUG INC ; EXTANG CORP ; TECTUM HOLDINGS INC ; MAIMIN JULIAN720 JESSIE STREETSAN FERNANDOCA91340US ; MAIMIN ISRAEL720 JESSIE STREETSAN FERNANDOCA91340US ; TECTUM HOLDINGS INC5400 S. STATE ROADANN ARBORMI48108US ; N FAB INC ; RETRAX HOLDINGS LLC ; TRUXEDO INC ; UNDERCOVER INC ; LAURMARK ENTERPRISES INC ; MADISON CAPITAL FUNDING LLC ; ARES CAPITAL ADMINISTRATIVE AGENT AS CORP ; LAURMARK ENTERPRISES INC5400 S. STATE ROADANN ARBORMI48108US ; ADMINISTRATIVE TRUST CREATED UNDER ISRAEL MIAMIN 2010 REVOCABLE TRUST720 JESSIE STREETSAN FERNANDOCA91340US ; ADVANTAGE TRUCK ACCESSORIES INC ; AMERICAN CAPITAL LTD ; AMERICAN CAPITAL LTD ADMINISTRATIVE AGENT AS ; ARE ACCESSORIES LLC

Inventor(s):(std)**:** MAIMIN ISRAEL ; MAIMIN JULIAN

Inventor(s): MAIMIN JULIAN720 JESSIE STREETSAN FERNANDOCA91340US ; MAIMIN ISRAEL720 JESSIE STREETSAN FERNANDOCA91340US

Agent(s): SMART AND BIGGAR; KENNETH H; PERKINS COIE LLP; HARNESS DICKEY AND PIERCE PLC

International class (IPC 8–9)**:** B60J7/08 B60J7/10 B60J7/14 B60J7/185 B60J7/19 B60P7/02 B60P7/04 B62D33/02 (Advanced/Invention)

CPC: B60J7/102 B60J7/1856 B60J7/085 B60P7/02 B60P7/04

US class: 1/1 296/100.01 296/100.07 296/100.09 296/100.12 296/100.16 296/98

Classification Explorer

Cited documents: USD403292 S1, US8939494 BB, US8182021 BB, US7828361 BA, US7604282 BB, US7445264 BB, US7066523 BB, US7021693 BB, US6899372 BA, US6827389 BA, US6565141 BA, US6527330 BA, US6454337 BB, US6422635 BA, US6340194 BA, US6217102 BA, US6126226 A, US6126225 A, US6113176 A, US6082806 A, US6076881 A, US6030021 A, US5857729 A, US5795011 A, US5636893 A, US5427428 A, US5350213 A, US5330246 A, US5253694 A, US5251950 A, US5074188 A, US5040843 A, US4946217 A, US4889381 A, US4824162 A, US4807921 A, US4795206 A, US4784427 A, US4313636 A, US4216990 A, US4210361 A, US2771319 A, US2010140973 AA, US2009243331 AA, US2004245799 AA, US2003197394 AA, CA2528896 AA,

Forward Citations: US9776562, US9731584, US9278611, US9221380, US2016236552, US2016059682, US2014246877, FR3022506,

Abstract:
Source: US2013106133A A roll up cover for a box of a pick–up truck includes a plurality of substantially rigid slats connected by hinge joints. A flexible sheet of material is attached to the top surface of the slats. The hinge joints include a stop which allows pivoting of adjacent slats only in a direction moving the top surfaces of the slats towards each other, to allow the cover to be rolled up with flexible sheet facing inwardly, and with bottom surfaces of the slats facing outwardly, and not vice versa. Side rails are attached to the box of the pick–up truck. A roll rod in each side rail pivots into closed position when the cover is unrolled, with the roll rods engaging the end fittings on the slats, to hold the cover down onto the side rails.

0) DE102012100585A1 – WINDSCHOTT MIT EINEM GELENK WIND DEFLECTOR FOR...

128) Family number: 54361016 (DE102012100585A1) © PatBase

Title: WINDSCHOTT MIT EINEM GELENK WIND DEFLECTOR FOR PASSENGER VEHICLE, HAS ELASTICALLY LOADABLE RESETTING UNIT THAT IS ARRANGED IN HINGE AND HAS TRACTION UNIT WHICH IS GUIDED STRETCHED SIDE AND SPACED FROM ROTATING AXIS IN HINGE

Priority: DE201210100585 20120124

Family:

Publication number	Publication date	Application number	Application date
DE102012100585 A1	20130725	DE201210100585	20120124

Probable Assignee: FKT GMBH

Assignee(s):(std)**:** FKT GMBH ; IKON FAHRZEUG DESIGN U ENGINEERING GBR VERTRETUNGSBERECHTIGTE GESELLSCHAFTER STEFAN KOERBER

Assignee(s): IKON FAHRZEUG DESIGN U ENGINEERING GBR VERTRETUNGSBERECHTIGTE GESELLSCHAFTER STEFAN KOERBER 85092 KOESCHING U DIETMAR MATSCHAT 85117 EITENSHEIM

International class (IPC 8–9): B60J7/22 (Advanced/Invention)

CPC: B60J7/223

Classification Explorer

Cited documents: DE19616448 A1, DE19545405 A1,

DE102006029133 A1

Forward Citations: EP3081418,

Abstract:
Source: DE102012100585A1 Ein Windschott (1) fuer ein Personenkraftfahrzeug weist einen Windschottrahmen bestehend aus wenigstens zwei Teilrahmen (2a, 2b, 2a1, 2a2, 2b1, 2b2) auf. Die Teilrahmen sind durch wenigstens ein Gelenk (3) drehbar miteinander verbunden, um das Windschott (1) aus einer eingeklappten Position in eine ausgeklappte Position und zurueck zu ueberfuehren, wobei das Gelenk (3) zwei um wenigstens eine Drehachse (10) zueinander klappbare Gelenkteil (9) aufweist, welche jeweils mit einem Teilrahmen (2a, 2b, 2a1, 2a2, 2b1, 2b2) verbunden sind. In dem Gelenk (3) ist eine elastisch beaufschlagbare Rueckstelleinrichtung (13) angeordnet, die wenigstens ein Zugmittel (12) umfasst, welches streckseitig und beabstandet von der Drehachse (10) derart in dem Gelenk (3) gefuehrt ist, dass beim Einklappen und/oder Ausklappen des Windschotts (1) zumindest ein Abschnitt (12a, 12b) des Zugmittels (12) eine Laengenaenderung oder eine Positionsaenderung erfaehrt. Die Rueckstelleinrichtung (13) ist entsprechend der Positionsaenderung oder der Laengenaenderung des zumindest einen Abschnitts (12a, 12b) des Zugmittels (12) beaufschlagbar. The wind deflector (1) has a wind deflector frame with two sub–frames (2a–1,2a–2,2b–1,2b–2) which are connected with each other by hinge (3) in a rotating manner to transfer the wind deflector from a retracted position in an extended position. An elastically loadable resetting unit is arranged in the hinge and has a traction unit which is guided stretched side and spaced from a rotating axis in the hinge such that a section of the traction unit experiences a change in length or a change in position during retracting or expanding of the wind deflector.

0) US2014110065A – AWNING ASSEMBLY WITH INTEGRAL LIGHTING

129) Family number: 56267297 (US2014110065A) © PatBase

Title: AWNING ASSEMBLY WITH INTEGRAL LIGHTING

Priority: AU20130331123 20131018 AU20150249097 20151028 US20120656389 20121019 US20150738065 20150612 AU20160201189 20160225 US20160139855 20160427 WO2013US65660 20131018

Family:

Publication number	Publication date	Application number	Application date
AU2013331123 AA	20140424	AU20130331123	20131018
AU2013331123 BB	20151126	AU20130331123	20131018
AU2015249097 AA	20151112	AU20150249097	20151028
AU2016201189 AA	20160317	AU20160201189	20160225
CA2888620 AA	20150416	CA20132888620	20131018
CA2888620 C	20160816	CA20132888620	20131018
US2014110065 AA	20140424	US20120656389	20121019
US2015274058 AA	20151001	US20150738065	20150612
US2016236609 AA	20160818	US20160139855	20160427
US9057198 BB	20150616	US20120656389	20121019
WO14063038 A2	20140424	WO2013US65660	20131018
WO14063038 A3	20150122	WO2013US65660	20131018

Probable Assignee: DOMETIC CORP

Assignee(s):(std)**:** DOMETIC CORP ; DOMETIC LLC ; DOMETIC SWEDEN AB

Assignee(s): MCCONNELL PATRICK ; SWINTY HENRY ; MALOTT DALE ; BELAND JON

Inventor(s):(std)**:** BELAND JON ; MALOTT DALE ; MCCONNELL PATRICK ; SWINTY HENRY ; MCCONNELL PAT

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SHAPIRO COHEN LLP; MIDDLETON REUTLINGER; COLE JAMES ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J3/02 B60P3/34 B60Q3/00 E04F10/06 F21V33/00 (Advanced/Invention)

CPC: E04F10/0625 B60P3/343 E04F10/0603 F21Y2101/00 F21Y2115/10

US class: 1/1 160/45 160/66 160/67 362/235 362/249.01 362/382 362/543 411/500

Classification Explorer

Cited documents: WO10004073 A1, USD549378 S1, USD545182 S1, USD533772 S1, US9255441 BB, US8262250 BB, US8002430 BB, US7871017 BB, US7748675 BB, US7533679 BB, US7401949 BB, US7152838 BB, US7134773 BB, US6921184 BB, US6883931 BB, US6869202 BB, US6817731 BB, US6494246 BA, US5934349 A, US5718253 A, US5601267 A, US5180223 A, US5148849 A, US2014060757 AA, US2013235558 AA, US2012002409 AA, US2011007498 AA, US2008173341 AA, US2008128095 AA, US2007211462 AA, US2005039861 AA, US1906489 A, US1779764 A, EP2749709 A1,

Forward Citations: WO15175995, US9755408, US9308141, US9228359, US9169690, US2016111862, US2014262056, US2014246876,

Abstract:
Source: US2014110065A Embodiments of an awning assembly are taught which utilize an awning rail assembly including a connector having integrated luminaires. The integrated luminaire does not interfere with the extension or retraction of the awning.

0) DE102012221993A1 – KRAFTFAHRZEUG MIT EINER WASSERFANGEINRICHTUNG ...

130) Family number: 56588752 (DE102012221993A1) © PatBase

Title: KRAFTFAHRZEUG MIT EINER WASSERFANGEINRICHTUNG MOTOR VEHICLE HAS AXIS ABOUT WHICH COVERING IS PIVOTED BETWEEN REST POSITION AND ACTIVE POSITION BY ADJUSTING DEVICE, WHERE AXIS EXTENDS PARALLEL TO LONGITUDINAL DIRECTION OF A–COLUMN

Priority: DE201210221993 20121130

Family:

Publication number	Publication date	Application number	Application date
DE102012221993 A1	20140605	DE201210221993	20121130

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Inventor(s):(std)**:** OSWALD ROLAND ; SEITZ CHRISTIAN

International class (IPC 8–9)**:** B60J1/02 B60J10/08 B60R13/07 B62D25/07 (Advanced/Invention)

CPC: B60R13/07

Classification Explorer

Cited documents: DE3718121, DE3121093, DE19818388, DE102009009469, DE102004042703, DE102004032726,

Abstract:
Source: DE102012221993A1 Ein Kraftfahrzeug mit einer erfindungsgemaessen Wasserfangeinrichtung weist an der A–Saeule eine Wasserfangleiste auf, die in der Wirkstellung der Wasserfangeinrichtung einen Wasserfangkanal bildet. Der Wasserfangkanal wird in der Ruheposition der Wasserfangeinrichtung durch eine Abdeckung in aerodynamisch vorteilhafter Weise verschlossen. Die Abdeckung ist als Verkleidung der A–Saeule ausgebildet und ist ihrem der Windschutzscheibe des Kraftfahrzeugs zugewandten Randbereich verschwenkbar an der A–Saeule befestigt. In der Ruheposition der Wasserfangeinrichtung fluchtet der der Windschutzscheibe abgewandte freie Endabschnitt der Abdeckung mit dem freien Endabschnitt der Wasserfangleiste und ueberdeckt somit den Wasserfangkanal. In der Wirkstellung der Wasserfangeinrichtung liegt die Abdeckung an der Aussenkontur der A–Saeule an, so dass der Wasserfangkanal freigelegt ist. The motor vehicle has a water arrester device for lateral water flowing off from a windshield (2) of the motor vehicle in the direction of an A–column (4). A covering (30) is provided at the A–column, which is pivoted about an axis (34) between a rest position and an active position by an adjusting device. The axis extends parallel to longitudinal direction of the A–column. The axis extends in the edge area of the A–column, where the edge area is adjacent to the windshield. The A–column has a water arrestor strip (20) at its edge area facing away from the windshield. The water arrestor strip extends along a portion of its height extension. An independent claim is included for a method for controlling a water arrester device for a motor vehicle.

0) US2014193039A – SYSTEM AND METHOD OF MEASURING DISTANCES RELATE...

131) Family number: 56883323 (US2014193039A) © PatBase

Title: SYSTEM AND METHOD OF MEASURING DISTANCES RELATED TO AN OBJECT

Priority:
US20130735449 20130107 US20140315503 20140626 US20140320973 20140701
US20140540030 20141112 US20140581140 20141223 US20150644642 20150311
WO2014US10203 20140103 US20150865250 20150925 US20150960497 20151207
US20160232680 20160809 US20170629093 20170621

Family:

Publication number	Publication date	Application number	Application date
CA2897341 AA	20150706	CA20142897341	20140103
EP2941727 A1	20151111	EP20140735142	20140103
EP2941727 A4	20160810	EP20140735142	20140103
IL239831 A0	20150831	IL20140239831	20140103
US2014193039 AA	20140710	US20130735449	20130107
US2014314276 AA	20141023	US20140320973	20140701
US2014331578 AA	20141113	US20140315503	20140626
US2015068140 AA	20150312	US20140540030	20141112
US2015110421 AA	20150423	US20140581140	20141223
US2015184444 AA	20150702	US20150644642	20150311
US2016012611 AA	20160114	US20150865250	20150925
US2016104288 AA	20160414	US20150960497	20151207
US2016348418 AA	20161201	US20160232680	20160809
US2017284799 AA	20171005	US20170629093	20170621
US8923650 BB	20141230	US20130735449	20130107
US9208581 BB	20151208	US20140581140	20141223
US9230339 BB	20160105	US20140320973	20140701
US9234381 BB	20160112	US20140315503	20140626
US9663983 BB	20170530	US20150644642	20150311
US9691163 BB	20170627	US20150865250	20150925
WO14107592 A1	20140710	WO2014US10203	20140103

Probable Assignee: WEXENERGY LLC

Assignee(s):(std)**:** WEXEBERGY INNOVATIONS LLC ; WEXENERGY INNOVATIONS LLC ; WEXENERGY LLC ; WEXLER RONALD M

Inventor(s):(std)**:** LUO JIEBO ; METELSKY ALAN SCOTT ; SPENCE JOHN P ; SPENCE JOHN PATRICK ; WEXLER RONALD ; WEXLER RONALD M ; WEXLER RONALD MYRON

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; CASEY ALAN MICHAEL; HOWARD; WOODS OVIATT GILMAN LLP; ZARETSKY PATENT GROUP PC; LECLAIRRYAN A PROFESSIONAL CORP; ZARETSKY HOWARD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9):
B60J1/00 E04B1/76 E06B1/34 E06B3/26 E06B3/273 E06B3/28 E06B3/30 E06B3/64 E06B5/00 E06B7/16 E06B7/26 E06B7/28 E06B9/24 G01B11/02 G01C11/04 G06F G06F17/50 G06K9/00 G06K9/36 G06K9/46 G06T3/00 G06T7/00 G06T7/60 G06T7/62 H04N5/232 H04N7/18 (Advanced/Invention);
E06B9/00 G01C11/04 G01C3/00 (Advanced/Non–invention);
G06F (Subclass/Invention)

CPC: E06B3/30 E06B3/28 B60J1/002 E06B2009/005 E06B1/34 E06B7/16 G06T2207/10024 G06T7/0028 H04N7/183 H04N5/23293 G06K9/4604 G06T3/00 G06T2207/10004

G06T7/60 E06B3/285 E06B7/26 E06B7/28 G06T3/0012 G01C3/00 G01C11/04 G06T2207/30208 E06B9/24 E06B3/273 G06T7/33 G06T7/73 G06T7/62 G06T7/602 E06B3/26

US class: 1/1 348/135 382/103 382/106 382/286 52/203 52/204.62 52/741.1

Classification Explorer

Cited documents: WO14152485 A1, WO14144136 A1, WO14123936 A1, WO12078249 A2, USRE35291 E, USRE17821 E, USD542935 S1, USD345903 S1, USD340181 S1, USD332390 S1, USD331211 S1, USD304737 S1, US9416586 BA, US9353567 BB, US9234381 BB, US9217276 BA, US8923650 BB, US8875774 BA, US8869473 BB, US8851423 BA, US8839564 BB, US8795568 BB, US8789343 BB, US8757186 BB, US8733040 BB, US8720077 BA, US8713865 BB, US8695309 BB, US8656665 BB, US8649052 BB, US8643933 BB, US8620045 BB, US8596024 BB, US8595994 BA, US8590261 BB, US8590229 BB, US8586193 BB, US8582087 BB, US8572911 BA, US8553280 BB, US8550140 BB, US8510283 BB, US8490346 BB, US8490345 BB, US8472009 BB, US8439154 BA, US8428393 BB, US8402716 BB, US8402714 BB, US8398909 BA, US8393584 BB, US8393113 BB, US8379914 BB, US8340452 BB, US8339642 BB, US8326015 BB, US8316613 BB, US8303071 BB, US8297003 BB, US8276498 BA, US8272178 BB, US8256122 BB, US8254663 BB, US8249691 BB, US8245619 BB, US8237788 BB, US8235284 BA, US8206631 BA, US8181400 BB, US8180137 BB, US8171681 BB, US8163224 BB, US8151687 BB, US8151542 BB, US8151540 BB, US8126260 BB, US8118216 BB, US8109235 BB, US8104692 BB, US8040530 BB, US8039102 BA, US8000514 BB, US7996317 BA, US7986826 BB, US7983468 BB, US7978900 BB, US7963075 BB, US7957582 BB, US7953268 BB, US7950716 BB, US7949176 BB, US7912743 BB, US7912320 BA, US7900408 BB, US7899512 BB, US7893963 BB, US7886651 BB, US7885451 BA, US7866101 BB, US7847711 BB, US7836638 BB, US7829003 BB, US7818927 BA, US7806484 BA, US7805897 BB, US7793831 BB, US7778457 BB, US7770353 BB, US7769236 BB, US7763334 BB, US7751645 BB, US7735271 BA, US7716875 BB, US7706567 BB, US7705720 BB, US7680739 BA, US7675057 BB, US7665706 BB, US7652595 BB, US7651063 BB, US7634128 BB, US7625595 BB, US7606741 BB, US7593595 BB, US7518741 BB, US7515250 BB, US7496241 BA, US7487598 BB, US7464506 BB, US7455269 BA, US7426316 BB, US7380759 BA, US7377425 BA, US7373173 BB, US7331523 BB, US7327865 BB, US7325365 BB, US7311112 BB, US7301564 BB, US7293391 BB, US7293368 BA, US7286208 BB, US7283202 BB, US7259727 BB, US7244325 BB, US7231081 BB, US7231063 BB, US7229059 BA, US7228662 BA, US7095531 BB, US7093643 BB, US7064831 BB, US7059482 BB, US7038701 BB, US7020320 BB, US7000356 BB, US6991346 BB, US6985631 BB, US6974518 BB, US6971205 BB, US6963390 BA, US6947610 BB, US6941700 BA, US6932528 BB, US6928776 BB, US6918426 BA, US6904162 BB, US6898907 BB, US6889480 BB, US6883930 BB, US6880790 BB, US6877286 BB, US6869053 BB, US6848492 BB, US6829861 BA, US6824000 BB, US6807294 BB, US6798925 BA, US6771808 BA, US6765569 BB, US6749797 BB, US6735341 BA, US6694047 BA, US6688027 BB, US6679013 BB, US6678062 BB, US6669341 BB, US6666251 BB, US6663064 BA, US6662523 BB, US6658775 BA, US6651831 BB, US6625927 BB, US6625302 BB, US6606837 BB, US6603882 BB, US6578326 BA, US6525651 BA, US6502355 BA, US6485106 BA, US6464185 BA, US6412225 BA, US6400848 BA, US6400334 BA, US6381917 BA, US6375143 BA, US6339909 BA, US6259943 BA, US6252185 BA, US6247518 BA, US6192967 BA, US6180196 BA, US6180196 B1, US6167661 BA, US6167661 B1, US6155009 A, US6148890 A, US6089517 A, US6064393 A, US6053356 A, US6038553 A, US6038351 A, US5996951 A, US5979889 A, US5962072 A, US5950398 A, US5943117 A, US5937595 A, US5918430 A, US5897158 A, US5825564 A, US5799661 A, US5794404 A, US5787956 A, US5784213 A, US5776506 A, US5761686 A, US5747816 A, US5737885 A, US5732760 A, US5649389 A, US5645254 A, US5640815 A, US5622414 A, US5606129 A, US5588476 A, US5573214 A, US5554421 A, US5553420 A, US5552768 A, US5551657 A, US5550681 A, US5537483 A, US5511752 A, US5496643 A, US5496598 A, US5489890 A, US5485709 A, US5483916 A, US5465776 A, US5441095 A, US5429335 A, US5405112 A, US5395159 A, US5390837 A, US5390454 A, US5363595 A, US5345743 A, US5333665 A, US5319879 A, US5247391 A, US5174607 A, US5168636 A, US5137238 A, US5126926 A, US5116274 A, US5085390 A, US5075991 A, US5048258 A, US5039045 A, US5031684 A, US5016937 A, US4991806 A, US4984760 A, US4979323 A, US4971028 A, US4959117 A, US4947596 A, US4915058 A, US4905569 A, US4902879 A, US4896855 A, US4848913 A, US4846429 A, US4842322 A, US4841696 A, US4736539 A, US4733956 A, US4702051 A, US4694973 A, US4684996 A, US4648572 A, US4640619 A, US4624539 A, US4598520 A, US4590883 A, US4588153 A, US4561223 A, US4544587 A, US4539516 A, US4499703 A, US4492355 A, US4473980 A, US4471589 A, US4463942 A, US4456241 A, US4453585 A, US4424653 A, US4422492 A, US4406246 A, US4399640 A, US4387542 A, US4382588 A, US4380140 A, US4372094 A, US4361116 A, US4351137 A, US4295920 A, US4292773 A, US4272934 A, US4257419 A, US4206615 A, US4189880 A, US4182088 A, US4158278 A, US4132035 A, US4089143 A, US4085999 A, US4085238 A, US4056229 A, US3978612 A, US3936670

A, US3553913 A, US3116519 A, US3069654 A, US2015184444 AA, US2015110421 AA, US2015068140 AA, US2014331578 AA, US2014268247 AA, US2014005524 AA, US2013251937 AA, US2013157493 AA, US2013085935 AA, US2013060146 AA, US2013051610 AA, US2013022231 AA, US2013011069 AA, US2012328822 AA, US2012324806 AA, US2012319320 AA, US2012285588 AA, US2012262553 AA, US2012217152 AA, US2012154784 AA, US2012125419 AA, US2012113489 AA, US2012105825 AA, US2011304886 AA, US2011298721 AA, US2011258921 AA, US2011208043 AA, US2011194750 AA, US2011118597 AA, US2011116693 AA, US2011102817 AA, US2011098722 AA, US2011091092 AA, US2011079011 AA, US2011078964 AA, US2011071524 AA, US2011030290 AA, US2011009929 AA, US2010294154 AA, US2010287851 AA, US2010214344 AA, US2010176539 AA, US2010172546 AA, US2010150424 AA, US2010122782 AA, US2010104171 AA, US2010079683 AA, US2010073735 AA, US2010045701 AA, US2009261158 AA, US2009249694 AA, US2009238446 AA, US2009225165 AA, US2009185738 AA, US2009185737 AA, US2009185736 AA, US2009185241 AA, US2009092322 AA, US2009076650 AA, US2009074300 AA, US2009074251 AA, US2008317333 AA, US2008287807 AA, US2008245002 AA, US2008198177 AA, US2008190070 AA, US2008183576 AA, US2008127581 AA, US2008063767 AA, US2008062437 AA, US2008007705 AA, US2007288382 AA, US2007269103 AA, US2007206877 AA, US2007199259 AA, US2007188633 AA, US2007171288 AA, US2007168153 AA, US2007100490 AA, US2007084911 AA, US2007076940 AA, US2007065004 AA, US2007053574 AA, US2007042703 AA, US2007017997 AA, US2006291727 AA, US2006249859 AA, US2006221415 AA, US2006210192 AA, US2006177118 AA, US2006164682 AA, US2006140504 AA, US2006127612 AA, US2006124164 AA, US2006045379 AA, US2006002630 AA, US2005264783 AA, US2005261990 AA, US2005242186 AA, US2005237541 AA, US2005228614 AA, US2005228270 AA, US2005228256 AA, US2005223663 AA, US2005222793 AA, US2005220324 AA, US2005196071 AA, US2005194086 AA, US2005143136 AA, US2005099446 AA, US2005097046 AA, US2005065893 AA, US2004261959 AA, US2004233280 AA, US2004226208 AA, US2004223661 AA, US2004221967 AA, US2004165024 AA, US2004159057 AA, US2004123627 AA, US2004096578 AA, US2004080749 AA, US2004028258 AA, US2004012679 AA, US2003226332 AA, US2003177100 AA, US2003161523 AA, US2003156201 AA, US2003151674 AA, US2003145532 AA, US2003142862 AA, US2003089054 AA, US2003086615 AA, US2003053029 AA, US2003041557 AA, US2003024481 AA, US2002189743 AA, US2002154283 AA, US2002150279 AA, US2002100562 AA, US2002067846 AA, US2002044689 AA, US2002041717 AA, US2002012462 AA, US2001009179 AA, US1799445 A, US1783861 A, US1753618 A, US1694677 A, US1694676 A, US1681443 A, US1679802 A, US1636879 A, US1635906 A, US1630208 A,

Forward Citations: WO17009615, WO16198739, WO15131129, US9786042, US9766844, US9741135, US9691163, US9663983, US9652887, US9628709, US9619899, US9613020, US9606701, US9576363, US9574871, US9570892, US9569851, US9546515, US9536301, US9501840, US9495667, US9466097, US9436743, US9410362, US9256932, US9234381, US9208581, US9160946, US9064177, US8977033, US2016234433, US2016225130, US2016212342, US2016180549, US2016148428, US2016104288, US2016091322, US2016042233, US2015371373, US2015288878, US2015285647, US2015284996, US2015262012, US2015242095, US2015206339, US2015186967, US2015184444, US2015160539, US2015138570, US2015124085, US2015110421, US2015068140, US2014331578, US2014044303, US2011019902, DE102016002424, DE102014221093,

Abstract:
Source: US2014193039A A system and method for the measurement of distances related to an object depicted in an image. One aspect including delivery of supplemental materials for fenestration and for constructing insulating materials for fenestration. A digital image containing a primary object dimension and a reference object dimension in substantially the same plane undergoes digital image processing to provide improved measurement capability. Information regarding a primary object is provided to an automated measurement process, design and manufacturing system to provide customized parts to end users. A digital image is obtained having an observable constraint dimension to which a customized part is to conform wherein the digital image contains a reference object having a reference dimension and a constraint dimension is calculated from the digital image based on a reference dimension. The custom part is designed and manufactured based on the calculated constraint dimension.

0) GB2510404A – AWNING EXTENDABLE FROM AND SUITABLE FOR VEHICLE...

132) Family number: 53472485 (GB2510404A) © PatBase

Title: AWNING EXTENDABLE FROM AND SUITABLE FOR VEHICLE BOOT LID

Priority: GB20130001886 20130203

Family:

Publication number	Publication date	Application number	Application date
GB201301886 A0	20130320	GB20130001886	20130203
GB2510404 A1	20140806	GB20130001886	20130203

Probable Assignee: DAWNING CO LTD

Assignee(s):(std)**:** DAWNING CO LTD ; DAWNING COMPANY THE LTD

Inventor(s):(std)**:** OGLEBY ANDREW

Inventor(s): ANDREW OGLEBY

International class (IPC 8–9)**:** B60J5/10 B60J7/00 E04H15/06 (Advanced/Invention)

CPC: E04H15/06 B60J5/101 B60J11/02 B60J7/00 B60J5/10 E04F10/02 E04F10/0603 E04F10/0618 E04F10/0629 E04F10/0662 E04F10/0688 E04F10/10

Classification Explorer

Cited documents: TWM254364 Y, JP63063237 U1, JP63063237 U, JP2007261549 A2, JP2006076411 A2, JP2002225567 A2, JP11129762 A2,

Abstract:
Source: GB2510404A An awning has a chassis 2 which can be normally attached by an adaptor (4, Figure 1A) to the inside of the boot lid 1 of a car, or similar vehicle. The awning panel 3 can be rapidly deployed substantially horizontally to provide shelter from the elements, especially rain. The chassis 2 may be in the form of a housing and attachment means 13 may be in the form of hooks or magnets. The awning may have and adaptor 11 providing a fastening which facilitates retrofitting to an existing vehicle. The chassis 2 may be provided with means to attach to the adapter which may be in the form of a dovetail fitting (10, 12 Figure 1E, 1F). The awning may be in the form of a roll and when deployed the roll may be biased to retract the awning panel 3. Preferably the awning is canvas and may have a support structure. Also claimed is a vehicle having a boot lid and an extensible awning.

0) KR20140116613A – A MANUFACTURING EQUIPMENT OF FLOCKING FILM FOR ...

133) Family number: 57518558 (KR20140116613A) © PatBase

Title: A MANUFACTURING EQUIPMENT OF FLOCKING FILM FOR DOORS WEATHER STRIP OF CAR

Priority: KR20130031363 20130325

Family:

Publication number	Publication date	Application number	Application date
KR20140116613 A	20141006	KR20130031363	20130325

Probable Assignee: KIM JONG WON

Assignee(s):(std)**:** KIM JONG WON

Inventor(s):(std)**:** KIM JONG WON

International class (IPC 8–9)**:** B60J10/08 B62D65/00 B62D65/06 B62D65/08 (Advanced/Invention)

CPC: B62D65/06 B29C65/48 B62D65/18 D06C11/00

Classification Explorer

Forward Citations: KR101560260,

Abstract:
Source: KR20140116613A The present invention relates to an apparatus for manufacturing a flocking film of a weather strip for a vehicle door. More specifically, the present invention relates to an apparatus for manufacturing a flocking film of a weather strip for a vehicle door which includes an uncoiler (1) uncoiling a synthetic resin film (B) coiled around a bobbin to continuously supply the synthetic resin film (B); a vacuum absorption conveyor (2) vacuumizing and absorbing the film continuously supplied from the uncoiler (1) to forcibly transfer the film; a glue applying device (3) applying glue (C) to one surface of the transferred synthetic resin film (B); a flocking machine (4) transplanting a nylon pile (D) on the synthetic resin film (B) to which the glue (C) is applied at one surface; a dehydration device (5) dehydrating the glue (C) on the synthetic resin film (B) on which the nylon pile (D) is transplanted; a brushing device (6) brushing and shaking off the nylon pile (D) not transplanted on a surface of the flocking film discharged after being dehydrated in the dehydration device (5) with a brushing roller (601) and using a dust collector (602) to collect the nylon pile (D); and a winding machine (7) winding the flocking film in which flocking is completed. The transfer speed and tension of the synthetic resin film is constantly maintained from a start to an end of the process of manufacturing a flocking film, so that the film is not stretched. The glue application and the flocking process are automatically performed, such that productivity of the flocking film is remarkably improved.

0) US2016121705A – A COVER

134) Family number: 54255055 (US2016121705A) © PatBase

Title: A COVER

Priority: GB20130007846 20130501 GB20130021557 20131206 WO2014GB00168 20140501

Family:

Publication number	Publication date	Application number	Application date
CA2918198 AA	20160113	CA20142918198	20140501
GB201307846 A0	20130612	GB20130007846	20130501
GB201321557 A0	20140122	GB20130021557	20131206
GB2513686 A1	20141105	GB20130021557	20131206
GB2513686 B2	20150819	GB20130021557	20131206
US2016121705 AA	20160505	US20140771930	20140501
WO14177827 A1	20141106	WO2014GB00168	20140501

Probable Assignee: GRANULAR LTD

Assignee(s):(std)**:** GRANULAR LTD ; TAYLOR HUGHES ROBERT

Assignee(s): ROBERT TAYLOR HUGHES

Inventor(s):(std)**:** TAYLOR HUGHES ROBERT

Inventor(s): ROBERT TAYLOR HUGHES

Agent(s): RIDOUT AND MAYBEE LLP; WALKER NEVILLE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A45F4/00 B60J11/00 B62J19/00 E04H15/06 E04H15/54 E04H15/64 (Advanced/Invention)

CPC: A45F4/00 B60J11/00 E04H15/06 E04H15/54 E04H15/64 B62J19/00

US class: 150/166

Classification Explorer

Cited documents: WO11083494 A2, US9061722 BB, US8136865 BA, US6923489 BB, US6516844 BA, US6209599 BA, US5921389 A, US5795009 A, US5562139 A, US2009025843 AA, US2006284444 AA,

Abstract:
Source: US2016121705A It is often desirable to cover parts of a roofless vehicle when not in use, for example to protect the seat and instrumentation from the weather or becoming damaged. The cover (10) for a roofless vehicle comprises two portions (101,102) with a first portion arranged to be placed in use over the vehicle's instrumentation and steering and a second portion arranged to be placed in use over a seat of the vehicle. The cover can be arranged in a first configuration to cover the vehicle and rearranged to a second configuration wherein the cover provides a shelter. The cover includes plural attachment points (13,14) to allow the cover to be secured in both configurations.

0) US2014352601A – DISABLED VEHICLE SAFETY APPARATUS

135) Family number: 57926949 (US2014352601A) © PatBase

Title: DISABLED VEHICLE SAFETY APPARATUS

Priority: US20130907164 20130531

Family:

Publication number	Publication date	Application number	Application date
US2014352601 AA	20141204	US20130907164	20130531
US9302615 BB	20160405	US20130907164	20130531

Probable Assignee: BLACK BART INC

Assignee(s):(std)**:** BLACK BART INC ; CARLSON PATRICK E

Inventor(s):(std)**:** CARLSON PATRICK E

Agent(s): TUCKER ELLIS LLP

International class (IPC 8–9)**:** B60J11/04 B60P7/08 B60Q1/52 B60Q7/00 (Advanced/Invention)

CPC: B60Q1/52 B60J11/04 B60P7/0876

US class: 1/1 116/30

Classification Explorer

Cited documents: WO14193414 A1, US8479787 BA, US8439422 BB, US8267035 BB, US7690821 BB, US7290826 BB, US7075481 BB, US7021235 BA, US6783267 BA, US6650283 BB, US6406169 BA, US6398287 BA, US5954076 A, US5769526 A, US5533287 A, US5050924 A, US4827997 A, US4080924 A, US2675545 A, US2014198510 AA, US2014104057 AA, US2014056014 AA, US2012318416 AA, US2011096538 AA, US2010123331 AA, US2007046063 AA, US2006273615 AA, US2004108746 AA, US2002098052 AA, US2001038226 AA, DE20018870 U1,

Abstract:
Source: US2014352601A A disabled vehicle safety apparatus is disclosed herein. The apparatus is utilized to prevent harm to a disabled vehicle or driver located on a roadway or the side of a road. The apparatus is configured to be collapsed and folded for easy transportation. The apparatus comprises a body and a perimeter that are comprised of lightweight reflective material(s). The apparatus includes elastic cording and a plurality of apertures. The elastic cording is located throughout the perimeter of the apparatus, wherein the elastic cording is operative to tighten and loosen the perimeter. The plurality of apertures is located along the perimeter, wherein the elastic cording is accessible through the plurality of apertures. The apparatus includes at least one removably attachable component that may be operative to be secured to the body and/or the perimeter, such as a GPS component, via the elastic cording.

0) WO14193414A1 – DISABLED VEHICLE SAFETY APPARATUS APPAREIL DE ...

136) Family number: 57946201 (WO14193414A1) © PatBase

Title: DISABLED VEHICLE SAFETY APPARATUS

Priority: WO2013US43690 20130531

Family:

Publication number	Publication date	Application number	Application date
WO14193414 A1	20141204	WO2013US43690	20130531

Probable Assignee: CARLSON PATRICK E

Assignee(s):(std)**:** CARLSON PATRICK E

Inventor(s):(std)**:** CARLSON PATRICK E

Agent(s): EMHOFF STACY L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J11/04 B60J11/06 (Advanced/Invention)

CPC: B60J11/04

Classification Explorer

Cited documents: US2012261940 AA, US2007046063 AA, US2001038226 AA, KR200268252 Y1, JP6055837 U1,

Forward Citations: US9302615, US2014352601,

Abstract:
A disabled vehicle safety apparatus is disclosed herein. The apparatus is utilized to prevent harm to a disabled vehicle or driver located on a roadway or the side of a road. The apparatus is configured to be collapsed and folded for easy transportation. The apparatus comprises a body and a perimeter that are comprised of lightweight reflective material(s). The apparatus includes elastic cording and a plurality of apertures. The elastic cording is located throughout the perimeter of the apparatus, wherein the elastic cording is operative to tighten and loosen the perimeter. The plurality of apertures is located along the perimeter, wherein the elastic cording is accessible through the plurality of apertures. The apparatus includes at least one removably attachable component that may be operative to be secured to the body and/or the perimeter, such as a GPS component, via the elastic cording.

0) US2016137876A – PIGMENTED COATING AGENT AND METHOD FOR PRODUCIN...

137) Family number: 58123702 (US2016137876A) © PatBase

Title: PIGMENTED COATING AGENT AND METHOD FOR PRODUCING A MULTILAYER COATING USING THE PIGMENTED COATING AGENT FOR PRODUCING A PANE ADHESION

Priority: EP20130173147 20130621 EP20140725166 20140520 WO2014EP60304 20140520

Family:

Publication number	Publication date	Application number	Application date
CN105308134 A	20160203	CN201480034859	20140520
EP3010984 A1	20160427	EP20140725166	20140520
EP3010984 B1	20170329	EP20140725166	20140520
IN201647001208 A	20160805	IN201647001208	20160113
JP2016526584 T2	20160905	JP20160520335T	20140520
KR20160021768 A	20160226	KR20157034857	20140520
US2016137876 AA	20160519	US20140898772	20140520
US9528025 BB	20161227	US20140898772	20140520
WO14202313 A1	20141224	WO2014EP60304	20140520

Probable Assignee: BASF COATINGS GMBH

Assignee(s):(std)**:** BASF COATINGS GMBH

Inventor(s):(std)**:** FARWICK THOMAS ; FELDMANN BJOERN ; FELDMANN BJORN ; KUNSZT CARMEN ; LOEW NORBERT ; LOW NORBERT

Inventor(s): L W NORBERT

Agent(s): BASF IP ASSOCIATION; MARSHALL GERSTEIN AND BORUN LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B05D1/36 B32B17/00 B32B37/12 C03C17/00 C09D133/00 C09D161/28 C09D167/00 C09D179/04 C09D183/04 C09D183/12 C09D5/00 C09D7/12 C09J5/00 C09J5/02 (Advanced/Invention) ; B05D7/00 B60J10/00 C08G77/46 (Advanced/Non–invention)

CPC: C09D179/04 C09D7/1216 C09D7/125 C09D5/00 C09D7/1291 C09D7/1233 C09J5/02 B32B37/12 B32B2255/26 C09D161/28 B05D7/532 B05D2201/00 B05D2202/00 B32B17/00 B60J10/00 C08G77/46 C09D183/12 C09J5/00 C08L67/00 C08L83/12

US class: 156/109 427/207.1 427/387 428/354 428/447 524/315

Classification Explorer

Cited documents: WO10121794 A2, WO08100548 A1, WO08021712 A2, WO07008635 A1, WO06063304 A1, WO05105938 A1, WO05046889 A1, WO0107528 A1, US2012045632 AA, US2003232222 AA, DE10248799 A1, CN1243139 A,

Abstract:
Source: US2016137876A The present invention relates to a solvent–based, pigmented coating composition having a solids content of at least 35 percent, comprising (A) at least one melamine resin, (B) at least one pigment, (C) at least one organic solvent, and (D) at least one organosiloxane of the general formula (I) where R1=CnH2n with n=1 to 3; R2=H or CmH2m+1 with m=1 to 4; a=0 to 20; b=0 to 20; and a+b=2 to 40. The present invention further relates to a process for producing a multicoat coating system, using the coating composition, and to the use of the multicoat coating system for adhesively bonding glazing sheets.

0) US2015115647A – AUTOMOBILE COVER

138) Family number: 59084604 (US2015115647A) © PatBase

Title: AUTOMOBILE COVER

Priority: US20130895853P 20131025 US20140524311 20141027

Family:

Publication number	Publication date	Application number	Application date
US2015115647 AA	20150430	US20140524311	20141027
US9126475 BB	20150908	US20140524311	20141027

Probable Assignee: NIYOGI SHILADITYA

Assignee(s):(std)**:** NIYOGI SHILADITYA

Inventor(s):(std)**:** NIYOGI SHILADITYA

International class (IPC 8–9)**:** B60J11/04 H05B3/34 H05B3/84 (Advanced/Invention)

CPC: B60J11/04 H05B3/34 H05B2214/02

US class: 1/1 296/136.01

Classification Explorer

Cited documents: US5738403 A, US5490707 A, US4886083 A, US2013300149 AA, US2012007385 AA, US2011006049 AA, US2009167049 AA, US2005127710 AA, US2004178657 AA,

Forward Citations: US2016185199, US2016008165, CN105667282,

Abstract:
Source: US2015115647A An automobile cover is provided. The cover includes an inner sheet, an outer sheet and an insulating material in between. The cover is sectioned into a plurality of panels. The plurality of panels may include at least a front panel sized to cover a windshield of the automobile, a top panel sized to cover a top of the automobile, side panels and a rear panel sized to cover the rear windshield of the automobile. The front panel is joined to the top panel by a seam and the top panel is joined to the rear panel by a seam. The inner and outer sheets may be made of breathable water proof or water resistant fabric. The seams of the present invention allow for easy opening and folding of the cover.

0) WO17174078A1 – TARPAULIN STRUCTURE STRUCTURE DE BACHAGE PLAN...

139) Family number: 62794678 (WO17174078A1) © PatBase

Title: TARPAULIN STRUCTURE

Priority: DE201620101823U 20160406 DE201620104919U 20160906

Family:

Publication number	Publication date	Application number	Application date
DE102016116682 A1	20171012	DE201610116682	20160906
DE102017107469 A1	20171012	DE201710107469	20170406
DE202016101823 U1	20160630	DE201620101823U	20160406
DE202016104919 U1	20161229	DE201620104919U	20160906
EP3235668 A1	20171025	EP20170165373	20170406
WO17174078 A1	20171012	WO2017DE100276	20170406

Probable Assignee: EUROPEAN TRAILER SYSTEMS GMBH

Assignee(s):(std)**:** EUROPEAN TRAILER SYSTEMS GMBH

Inventor(s):(std)**:** ARENS ROBERT ; BIESENBRUCK VOLKER ; LEUKERS MARKUS ; REMMEL ROGER

Agent(s): SPARING ROLF KLAUS; BONNEKAMP AND SPARING

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** B60J7/06 B60J7/10 B60J7/185 B60P7/04 B61D39/00 B62D33/04 (Advanced/Invention)

CPC: B60J7/065 B60J7/062 B60J7/1856 B61D39/002

Classification Explorer

Cited documents: WO07056989 A2, US7325855 BB, US5524953 A, US2007063530 AA, US1827059 A, GB339440 A, FR2653478 A1, EP0955196 A1, EP0778169 B1, DE69606758 T2, DE4136257 A1,

DE202014005077 U1

DE102013201006 A1

DE102012216151 A1

DE102012006385 A1

Abstract:
The invention relates to a tarpaulin structure for an understructure, such as a truck, trailer, semi–trailer, railway car, dump truck or container, comprising a folding–top frame (16) and a tarpaulin (12) made of weather–resistant material; the folding–top frame (16) includes a plurality of struts (34); at one end, each of the struts includes a carriage (32) that is movable along a guide (20); at least one bracket (36) is selectively pivotally connected to a pair of opposite carriages (32; 32') of the strut or to the strut (34), said bracket (36) forming a tarpaulin folding aid along with a bracket (26; 36) of an adjacent strut (34), of a pair of opposite carriages (32; 32') or of a stationary part (24) of the folding–top frame (16). In order to create a light–weight tarpaulin structure that allows an understructure to be reliably covered, according to the invention, the adjacent brackets (26, 36) are coupled to each other by means of a cinematic connecting rod assembly (38) that folds when the folding–top frame (16) is collapsed.

0) DE202016104329U1 – PROFILLEISTENANORDNUNG PROFILE BAR ARRANGEMENT...

140) Family number: 63667858 (DE202016104329U1) © PatBase

Title: PROFILLEISTENANORDNUNG PROFILE BAR ARRANGEMENT (Machine translation)

Priority: DE201620104329U 20160805

Family:

Publication number	Publication date	Application number	Application date
DE202016104329 U1	20160929	DE201620104329U	20160805

Probable Assignee: ELKAMET KUNSTSTOFFTECHNIK GMBH

Assignee(s):(std)**:** ELKAMET KUNSTSTOFFTECHNIK GMBH

International class (IPC 8–9)**:** B60J10/70 B60J10/72 E06B3/58 (Advanced/Invention)

CPC: B60J10/70 B60J10/30

Classification Explorer

Cited documents: DE20008555 U1,

Forward Citations: US2016229278,

Abstract:
Source: DE202016104329U1 Profilleistenanordnung (10) zur Verbindung einer Windschutzscheibe (12) eines Kraftfahrzeugs mit einem an einen unteren Randbereich (16) der Windschutzscheibe (12) angrenzenden Bauteil (14), umfassend eine Profilleiste (18) mit einem ersten Verbindungsbereich (20) zur Verbindung mit dem unteren Randbereich (16) und mit einem zweiten Verbindungsbereich (22) zur Verbindung mit dem angrenzenden Bauteil (14), dadurch gekennzeichnet, dass mindestens einer der Verbindungsbereiche (20, 22) mindestens ein Verbindungselement (48) aufweist, das als Saugkoerper (50) ausgebildet ist oder einen Saugkoerper (50) umfasst. Profile bar arrangement (10) to connect a windshield (12) a motor vehicle with an adjacent to a bottom edge panel (16) of the windshield (12) component (14), comprehensively a profile panel (18) with a first connection area (20) to the connection with the bottom edge (16) and a second connection area (22) to the connection with the adjacent component (14), characterized, that at least one of the connection areas (20, 22) has at least one link element (48), that is trained as a suction body (50) or includes a suction body (50).

0) DE102015116765A1 – SCHUTZABDECKUNG PROTECTIVE COVER (MACHINE TR...

141) Family number: 65366230 (DE102015116765A1) © PatBase

Title: SCHUTZABDECKUNG PROTECTIVE COVER (Machine translation)

Priority: DE201510116765 20151002

Family:

Publication number	Publication date	Application number	Application date
DE102015116765 A1	20170406	DE201510116765	20151002

Probable Assignee: KOLB SVEN

Assignee(s):(std)**:** KOLB SVEN

Inventor(s):(std)**:** KOLB SVEN

International class (IPC 8–9)**:** B60J11/04 (Advanced/Invention)

CPC: B60J11/04

Classification Explorer

Cited documents: US8985672 BB, DE9206235 U, DE4400392 A1,

DE202012102291 U1

DE102011115545 A1

DE102011055814 A1

DE102010053184 A1

Abstract:
Source: DE102015116765A1 Die Erfindung betrifft eine Schutzabdeckung (1, 1', 1", 1'"), die zumindest eine aufblasbare Kammer (4, 4', 4", 4'") aufweist, wobei die Schutzabdeckung (1, 1', 1", 1'") in zumindest einem Bereich eine Beschichtung (5, 5', 5'") aufweist. Hierdurch kann eine hochwirksame, kostenguenstige und platzsparend lagerbare Schutzabdeckung bereitgestellt werden, mit der ein Objekt, vorzugsweise ein Fahrzeug (100), vor Unwettergefahren geschuetzt werden kann. The invention relates to a protection cover (1, 1', 1 ", 1" '), which has at least one inflatable Chamber (4, 4', 4 ', 4' '), where the protective cover (1, 1', 1 ", 1" ') in at least one area is a coating (5, 5', 5 '") is. This a highly effective, low–cost and space–saving storable cover can be deployed, with an object, preferably a vehicle (100), can be protected from severe weather hazards.

0) US2017225554A – WEATHER STRIP

142) Family number: 66575394 (US2017225554A) © PatBase

Title: WEATHER STRIP

Priority: JP20160024088 20160210

Family:

Publication number	Publication date	Application number	Application date
JP2017140950 A2	20170817	JP20160024088	20160210
US2017225554 AA	20170810	US20170421488	20170201

Probable Assignee: NISHIKAWA RUBBER CO LTD

Assignee(s):(std)**:** NISHIKAWA RUBBER CO LTD

Assignee(s): NISHIKAWA RUBBER CO

Inventor(s):(std)**:** MATSUWAKI KANJI

Agent(s): HARAKENZO WORLD PATENT AND TRADEMARK

International class (IPC 8–9)**:** B60J10/15 B60J10/21 B60J10/25 B60J10/277 B60J10/33 B60J10/80 B60J10/86 B60R13/06 (Advanced/Invention)

CPC: B60J10/80 B60J10/25 B60J10/277 B60J10/21 B60J10/15 B60J10/33 B60J10/24 B60J10/27 B60J10/84

Classification Explorer

Abstract:
Source: US2017225554A The present invention achieves a good closing of an opening and closing member, good sealing properties, good sound insulating properties, and good contour following properties. A weather strip (**10**) includes a sealing section (**12**) having a main lip section (**15**) and a sub lip section (**16**). A space (S) surrounded by the main lip section (**15**), the sub lip section (**16**), a vehicle−interior−side upper wall section (**12***d*), and an opening and closing member (back door **4**) is contained within a region (R) between the sealing section (**12**) and the opening and closing member (back door **4**) facing each other.

0) US2017259658A – VEHICLE DOOR LINING ASSEMBLY, AND METHODS OF US...

143) Family number: 66936160 (US2017259658A) © PatBase

Title: VEHICLE DOOR LINING ASSEMBLY, AND METHODS OF USE AND MANUFACTURE THEREOF

Priority: US20160067137 20160310

Family:

Publication number	Publication date	Application number	Application date
US2017259658 AA	20170914	US20160067137	20160310

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s):(std)**:** HONDA MOTOR CO LTD

Assignee(s): HONDA MOTOR CO

Inventor(s):(std)**:** DILLEY JASON ; SIA JR GENEROSO TAN

International class (IPC 8–9)**:** B60J10/36 B60J10/86 B60J5/04 E06B7/23 (Advanced/Invention)

CPC: B60J10/86 E06B7/2301 B60J5/047 B60J10/36

Classification Explorer

Abstract:
Source: US2017259658A Some embodiments are directed to a door lining assembly for use with a vehicle having a vehicle interior, a vehicle door, and weather–stripping configured to facilitate sealing of the door in a closed position. The door lining assembly can include a front portion connected to a lower section of the vehicle door. The front portion can include a flange that is connected to the weather–stripping. The door lining assembly can also include an elongated transition portion that extends in a vehicle longitudinal direction and is attached to the front portion and the lower section of the vehicle door. The transition portion can be structured to have a gradually varying depth in a lateral direction of the vehicle, such that one end of the transition portion that is connected to the front portion extends further into the vehicle interior than the opposite longitudinal end.

144) Family number: 67174036 (DE102016106320A1) © PatBase

Title: PLANENAUFBAU Plan Structure (Machine translation)

Priority: DE201610106320 20160406

Family:

Publication number	Publication date	Application number	Application date
DE102016106320 A1	20171012	DE201610106320	20160406

Probable Assignee: EUROPEAN TRAILER SYSTEMS GMBH

Assignee(s):(std)**:** EUROPEAN TRAILER SYSTEMS GMBH

Inventor(s):(std)**:** ARENS ROBERT ; BIESENBRUCK VOLKER ; REMMEL ROGER

International class (IPC 8–9)**:** B60J7/10 B60P7/04 B62D33/04 (Advanced/Invention)

Classification Explorer

Cited documents: FR2653478 A1, EP2759433 A2,

DE202014005077 U1

Abstract:
Source: DE102016106320A1 Die Erfindung betrifft einen Planenaufbau fuer einen Unterbau, wie einen Lastkraftwagen, Anhaenger, Auflieger, Bahnwaggon, Muldenkipper oder Container, umfassend ein Verdeckgestell und eine Plane aus wetterbestaendigem Material, wobei das Verdeckgestell eine Mehrzahl von Holmen aufweist, die endseitig jeweils einen Schlitten aufweisen, der entlang einer Fuehrung verlagerbar ist, wobei zumindest ein Buegel (36) schwenkbar wahlweise an einem Paar gegenueberliegender Schlitten (32‘) des Holmes oder an dem Holm angeschlossen ist, wobei der Buegel (36) mit einem Buegel (36) eines benachbarten Holmes oder Paars gegenueberliegender Schlitten (32‘) oder eines feststehenden Teils des Verdeckgestells eine Planenhilfe bildet, wobeian dem vordersten Schlittenpaar (32‘) ein Abdeckbuegel (46) schwenkbar angeschlossen ist. Ein Planenaufbau, der mit geringem Eigengewicht ein zuverlaessiges Abdecken eines Unterbaus ermoeglicht, wird erfindungsgemaess dadurch geschaffen, dass der vorderste Schlitten (32‘) einen Rahmenabschnitt (320) aufweist, der oberhalb der Fuehrung (20) in einer horizontalen Ebene angeordnet ist, und dass der Rahmenabschnitt (320) ein Auflager (323) fuer den Abdeckbuegel (46) in seinem herabgeschwenkten Zustand bildet. The invention relates to a plan structure for a sub–frame, such as a truck, trailer, semi–trailer, railway wagon, dump truck or container comprising a top rack and a plans from weather resistant material, wherein the top frame a plurality of spars, which at the end side in each case a carriage that is displaceable along a guide, wherein at least one of a bracket (36) is pivotably may optionally be coupled to a pair of opposed adjacent carriages (32') of the Holmes or at the spar is connected to a bracket, wherein the bracket (36) (36) of an adjacent Holmes or pair of opposed carriages (32') or a fixed portion of the top frame, wobeian forms a plan aid the forwardmost carriage pair (32') a cover bracket (46) is pivotably connected. A plan structure with low dead weight enables a reliable covering a chassis, and in accordance with the invention, be provided that the leading carriage (32') comprises a frame portion (320), which is disposed above the guide (20) in a horizontal plane, and that the frame portion (320) is a bearing (323) for the cover bracket (46) is in its down–PIVOTED state.

0) DE102016106319A1 – PLANENAUFBAU PLAN STRUCTURE (MACHINE TRANSLA...

145) Family number: 67174027 (DE102016106319A1) © PatBase

Title: PLANENAUFBAU Plan Structure (Machine translation)

Priority: DE201610106319 20160406

Family:

Publication number	Publication date	Application number	Application date
DE102016106319 A1	20171012	DE201610106319	20160406

Probable Assignee: EUROPEAN TRAILER SYSTEMS GMBH

Assignee(s):(std)**:** EUROPEAN TRAILER SYSTEMS GMBH

Inventor(s):(std)**:** ARENS ROBERT

International class (IPC 8–9)**:** B60J7/10 B60P7/04 B62D33/04 (Advanced/Invention)

Classification Explorer

Cited documents: US7325855 BB, US2007063530 AA, EP0955196 A1, EP0778169 A1, DE202014005077 U1

Abstract:
Source: DE102016106319A1 Die Erfindung betrifft einen Planenaufbau fuer einen Unterbau, wie einen Lastkraftwagen, Anhaenger, Auflieger, Bahnwaggon, Muldenkipper oder Container, umfassend ein Verdeckgestell (16) und eine Plane (12) aus wetterbestaendigem Material, wobei das Verdeckgestell (16) eine Mehrzahl von Holmen (34) aufweist, die endseitig jeweils einen Schlitten (32) aufweisen, der entlang einer Fuehrung (20) verlagerbar ist, wobei zumindest ein Buegel (36) schwenkbar wahlweise an einem Paar gegenueberliegender Schlitten (32; 32‘) des Holmes oder an dem Holm (34) angeschlossen ist, wobei der Buegel (36) mit einem Buegel (26; 36) eines benachbarten Holmes (34) oder Paars gegenueberliegender Schlitten (32; 32‘) oder eines feststehenden Teils (24) des Verdeckgestells (16) eine Planenfalthilfe bildet. Ein Planenaufbau, der mit geringem Eigengewicht ein zuverlaessiges Abdecken eines Unterbaus ermoeglicht, wird erfindungsgemaess dadurch geschaffen, dass die benachbarten Buegel (26; 36) ueber eine Lenkerkinematik (38) miteinander gekoppelt sind, die beim Zusammenfahren des Verdeckgestells (16) zusammenklappbar ist. The invention relates to a plan structure for a sub–frame, such as a truck, trailer, semi–trailer, railway wagon, dump truck or container comprising a top frame (16) and a plane (12) from weather resistant material, wherein the top frame (16) has a plurality of tie bars (34) which is connected at the end side in each case a carriage (32) which is displaceable along a guide (20), wherein at least one of a bracket (36) is pivotably may optionally be coupled to a pair of opposed adjacent carriages (32; 32') of the Holmes or at the Spar (34), and wherein the bracket (36) with a shackle (26; 36) of an adjacent Holmes (34) or pair of opposing carriage (32; 32') or a fixed portion (24) of the top frame (16) has a plan folding aid. A plan structure with low dead weight enables a reliable covering a chassis, and in accordance with the invention, be provided for the adjacent bracket (26; 36) via a handlebar kinematics (38) are coupled to one another during assembly of the top drive stand (16) can be folded together.

0) DE102016106321A1 – PLANENAUFBAU PLAN STRUCTURE (MACHINE TRANSLA...

146) Family number: 67174043 (DE102016106321A1) © PatBase

Title: PLANENAUFBAU Plan Structure (Machine translation)

Priority: DE201610106321 20160406

Family:

Publication number	Publication date	Application number	Application date
DE102016106321 A1	20171012	DE201610106321	20160406

Probable Assignee: EUROPEAN TRAILER SYSTEMS GMBH

Assignee(s):(std)**:** EUROPEAN TRAILER SYSTEMS GMBH

Inventor(s):(std)**:** ARENS ROBERT ; BIESENBRUCK VOLKER ; REMMEL ROGER

International class (IPC 8–9)**:** B60J7/10 B60P7/04 B62D33/04 (Advanced/Invention)

Classification Explorer

Cited documents: DE69606758 T2,

DE202014005077 U1

DE102012216151 A1

Abstract:
Source: DE102016106321A1 Die Erfindung betrifft einen Planenaufbau fuer einen Unterbau, wie einen Lastkraftwagen, Anhaenger, Auflieger, Bahnwaggon, Muldenkipper oder Container, umfassend ein Verdeckgestell und eine Plane aus wetterbestaendigem Material, wobei das Verdeckgestell eine Mehrzahl von Holmen aufweist, die endseitig jeweils einen Schlitten aufweisen, der entlang einer Fuehrung (20) verlagerbar ist, wobei zumindest ein Buegel (36) schwenkbar wahlweise an einem Paar gegenueberliegender Schlitten (32‘) des Holmes oder an dem Holm angeschlossen ist, wobei der Buegel (36) mit einem Buegel (36) eines benachbarten Holmes oder Paars gegenueberliegender Schlitten (32‘) oder eines feststehenden Teils des Verdeckgestells eine Planenhilfe bildet, wobei an dem vordersten Schlittenpaar (32‘) ein Abdeckbuegel (46) schwenkbar angeschlossen ist, wobei der Abdeckbuegel (46) einen Fortsatz (465) aufweist, der gemeinsam mit dem Abdeckbuegel (46) um dessen Anlenkung (47) verschwenkbar ist. Ein Planenaufbau, der mit geringem Eigengewicht ein zuverlaessiges Abdecken eines Unterbaus ermoeglicht, wird erfindungsgemaess dadurch geschaffen, dass der Fortsatz (465) ueber ein Lenkergetriebe (60) zum Verschwenken des Abdeckbuegels (46) in eine seiner Endpositionen verschwenkbar ist. The invention relates to a plan structure for a sub–frame, such as a truck, trailer, semi–trailer, railway wagon, dump truck or container comprising a top rack and a plans from weather resistant material, wherein the top frame a plurality of spars, which at the end side in each case a carriage that is displaceable along a guide (20), wherein at least one of a bracket (36) is pivotably may optionally be coupled to a pair of opposed adjacent carriages (32') of the Holmes or at the spar is connected to a bracket, wherein the bracket (36) (36) of an adjacent Holmes or pair of opposed carriages (32') or a fixed portion of the top frame, wherein a plan aid forms at the forwardmost carriage pair (32') a cover bracket (46) is pivotably coupled to the source, wherein the cover bracket (46) has a projection (465), together with the cover bracket (46) The linkage (47) is pivotable. A plan structure with low dead weight enables a reliable covering a chassis, and in accordance with the invention, be provided that the appendage (465) via a transmission link (60) In order to pivot the cover bracket (46) in one of its end positions is pivotable.

0) DE102016106323A1 – PLANENAUFBAU PLAN STRUCTURE (MACHINE TRANSLA...

147) Family number: 67174055 (DE102016106323A1) © PatBase

Title: PLANENAUFBAU Plan Structure (Machine translation)

Priority: DE201610106323 20160406

Family:

Publication number	Publication date	Application number	Application date
DE102016106323 A1	20171012	DE201610106323	20160406

Probable Assignee: EUROPEAN TRAILER SYSTEMS GMBH

Assignee(s):(std)**:** EUROPEAN TRAILER SYSTEMS GMBH

Inventor(s):(std)**:** ARENS ROBERT ; BIESENBRUCK VOLKER ; REMMEL ROGER

International class (IPC 8–9)**:** B60J7/10 B60P7/04 B62D33/04 (Advanced/Invention)

Classification Explorer

Cited documents:

DE202014005077 U1

DE202004014761 U1

DE102014013626 A1

DE102014008953 A1

DE102014008952 A1

DE102014008951 A1

DE102014008949 A1

DE102013201006 A1

Abstract:
Source: DE102016106323A1 Die Erfindung betrifft einen Planenaufbau fuer einen Unterbau, wie einen Lastkraftwagen, Anhaenger, Auflieger, Bahnwaggon, Muldenkipper oder Container, umfassend ein Verdeckgestell und eine Plane aus wetterbestaendigem Material, wobei das Verdeckgestell eine Mehrzahl von Holmen aufweist, die endseitig jeweils einen Schlitten aufweisen, der entlang einer Fuehrung verlagerbar ist. Ein Planenaufbau, der mit geringem Eigengewicht ein zuverlaessiges Abdecken eines Unterbaus ermoeglicht, wird erfindungsgemaess dadurch geschaffen, dass einer der Holme eine einseitig entriegelbare Verriegelungsanordnung aufweist, dass die Verriegelungsanordnung ein erstes Riegelglied (71) und ein zweites Riegelglied aufweist, die an verschiedenen Laengsseiten des Planenaufbaus angeordnet sind, dass das erste Riegelglied (71) zum Entriegeln in eine erste Entriegelungsrichtung (Y1) und das zweite Riegelglied zum Entriegeln zugleich in eine zweite Entriegelungsrichtung (Y2) verlagerbar ist, und dass das erste Riegelglied (71) und das zweite Riegelglied gemeinsam durch Ziehen an dem ersten Riegelglied (71) von ausserhalb des Verdeckgestells entriegelbar sind. The invention relates to a plan structure for a sub–frame, such as a truck, trailer, semi–trailer, railway wagon, dump truck or container comprising a top rack and a plans from weather resistant material, wherein the top frame a plurality of spars, which at the end side in each case a carriage that is displaceable along a guide. A plan structure with low dead weight enables a reliable covering a chassis, and in accordance with the invention, be provided that one of the spars a unilateral unlockable latch assembly, the latch assembly includes a first locking member (71) and a second latch member disposed at various longitudinal sides of the plan structure arranged such that the first bolt member (71) for unlocking in a first unlocking direction (Y1) and the second locking member to unlock at the same time in a second direction (Y2) is displaceable unlocking, and in that the first locking member (71) and the second locking member together by pulling on the first locking member (71) from outside of the top frame is unlockable.

- **search:** SS6 FT=(seal* and (collector or cup or receiver) and (duct or tube or profile or guide) and (car or vehicle) and (water or dust) and door) (Results 6145)
- **search:** SS7 (6) and IC=B60J (Results 147)
- List: SS7 1–25 ((6) and IC=B60J) (Results 147)

0) US1781495A – SIDE AWNING

1) Family number: 19695268 (US1781495A) © PatBase

Title:	SIDE AWNING
Priority:	US19290331418 19290110

Family:

Publication number	Publication date	Application number	Application date
US1781495 A	19301111	US19290331418	19290110

Probable Assignee:	G A ROTH MFG CO
Assignee(s):(std):	G A ROTH MFG CO ; G A ROTH MFG COMPANY
Assignee(s):	G A ROTH MANUFACTURING COMPANY
Inventor(s):(std):	CLELAND MELVIN L
International class (IPC 8–9):	B60J3/00 (Advanced/Invention); B60J3/00 (Core/Invention)
International class (IPC 1–7):	B60J1/20
CPC:	B60J3/005
European class:	B60J3/00B1
US class:	160/22 160/73

Classification Explorer

Abstract:
Source: US1781495A I claim as new and desire to secure by lietters Patent of the United States, is: 1. A side awning of the class described, eoinprising, in combination, side pieces which are designed to be fitted in the side grooves of :fi Window opening of fl motor vehicle, telescopic instrumentalities for holding the side pieces in position in the grooves, 21 easing carried by said last– named instruinentelities, and ii canopy eonsti'u_lt;:i.ion located within the casing and adapted to he extended therefrom. " In ii side awning construction of the class described, the conibiiiation with ii rollergond o canopy thereon, of a rod in one end of the canopy, said rod having threaded extremities, arnis for holding the canopy in any one of EL plurality of extended posias tions, and adjustable connections between the ¥l»l'l`l'1S and the threaded extremities of the rod in the end of the canopy. 3. In SL side owning of the class described, the eonibinfition with si roller, nieans for mounting the roller on the body of u motor vehicle, fi. 'canopy on said roller having zz free end, u. rod aiiixcd to the free end of the canopy :ind extending therezicross to render the some rigid, of arms adapted to be pivotolly mounted on 11 vehicle body for holding said canopy in any one of ii plurality of extended positions,`z1nd an adjustable connection between the arms' and said rod eXtending across the end of the canopy, said connection consisting of the ends of the rod which are turned back on themselves to provide port–ions overlapping the esnopy, said portions being threzided, and nut means eooperoting with the threaded portions for holding the nrins in position thereon. , él. A side awning of the class described, comprising, in combination, side' pieces adapted to be held in the grooves of e window opening by frictional evngagementv with the Walls of said grooves, ZL tcieseopie rod extending between said side pieces, resilient means tending to expend said telescopic rod whereby the pressure holds the side pieces in position in the grooves, arms extending; from said telescopic rod, and easing; carried by said arms, the easing being adapted to hold :L spring roller having ii canopy mounted thereon. Y A side awning of the elziss described, comprising, in combination, side pieces adopted to beheld in the grooves of si window opening by frictional engagement with the Walls of said grooves, si telescopic rod extending between said side pieces, resilient means tending to expand said telescopic rod whereby the pressure holds the side pieces in posit–ion in the grooves, arms extending from said telescopic 1‘0(l,v2L casing carried bi said arms, si, spring roller lmving ll Canopy i'nounted`thereon. mounted in said casing, and means associated with the lower ends of the side pieces for holding the canopy in on extended position. 6. A side awning for motor vehicles of the elass described, comprising, inveonibinzv tion, ai easing, means for inonnting the oasing' exteriorly of a. window opening of si motor Vehicle, 2, canopy tulle–up device within the easing; a. canopy associated with~_the tolre–up deviec, a enp nielnber for the easing, and spring`mee.ns for detoehebly fastening the cap member on the casing. 7. IA casing for supporting u eiinopy carrying roller adapted to be mounted on motor Vehicles, comprising, in combination, zu tubular member deformed at one end to provide 21. roller supporting member and ears, the suid ears constituting 9, means whereby si cap is de–tachably secured to the end of the tube, T0 Q , a cap,–and spring II1BQ.I1S_i1'1 tllefqapvengaging thevealfs aforesaid. ' 8. In a. side awning Qf~the_claSs~describg;gd, the combination with in roller, 1`[16§ll1S,_fQ1’ mounting the roller on the body of s; motor Vehicleg, a._ canopy on said roller having a free end, z1_ rod ailixed to the free end of the canopy and extending thereacross to render the same rigid, of– arms adapted to be pivotally mounted on u vehicle body for holding said canopy in any one of ax, plurality of extended positions, ,an adjustable connection between the arms and said nod extending across the end of the canopy, said connection consisting of the ends of the rod which are turned back on themselves to provide portions overlapping the canopy, said portions being smooth, and means cooperating with the smooth por# tions for

holding the arms in position thereon; 9. A side awning of the class described, co1np1~ising»in con1b1nation, side piccesfrdaptcd to beheld in the grooves of a\ Window opening by frictional engagement with the walls of said grooves, 2, telescopic rod extending between said side pieces, arms extending from said telescopic rod, ~a casing carried by said harms, the arms rigid with the casing and rovided with clamping means adaypted to hcgd saidtelescopic rod in varied adjustment, a spring roller having eljcamopy II10L`IIlt~ ed thereon mounted in said casing, and means associated with the lower end of the –side pieces for holding the canopy in an extended pdsition. ` A side awning of the class described, comprising in conlbination, side pieces adaptff ed to beheld inthe grooves of £1 WiHd0W_0PGH_gt; ing' by frictional engagement withihe Walls of' said– grooves, slidable members extending bet–Ween said side pieces, arms extending frpm saidslidablé members, a casing carried by said arms, the a.rms'con~nec,ted tofhe casing, and provided with clampingfmeans adapted to hold the slidable members in ad; justed position, a springroller having a can opy mounted thereon, mounted in 'said casing, and means associatedwith vthe~1oWer_ end of the side piecesfor holding –the cz111Qpy in an extended position. _ _ ` ' 11. side a.wning~of the class' described, nomprisin , in combination, side pieces adapted tube hfilvin the grooves–of a wjnchmw opening by frictional engagement with the Walls of said grooves, mernbers–between said side pieces, arms extending frQ1n– said members, a casingcarried by said arms, thenrms connected t0'thŚ~(I?].Si§0f~, and provided withholding means adapteajto hold; the members in adjusted position, a– spring; roller having a. canopy mounted– thereon,/mounted in said casing, and meang assooia1;ed'with the lower' end of,–the sidzevpieceg' for holding the capppy in an extended–posjtion~ In testirnonyfvwhereof I~a1fHX~myvsignature1

0) US2053854A – MOTOR VEHICLE

2) Family number: 21167214 (US2053854A) © PatBase

Title: MOTOR VEHICLE

Priority: US19330700137 19331128

Family:

Publication number	Publication date	Application number	Application date
US2053854 A	19360908	US19330700137	19331128

Probable Assignee: PACKARD MOTOR CAR CO

Assignee(s):(std)**:** PACKARD MOTOR CAR CO

Assignee(s): PACKARD MOTOR CAR COMPANY

Inventor(s):(std)**:** VINCENT JESSE G

International class (IPC 8–9)**:** E05F11/38 (Advanced/Invention); E05F11/38 (Core/Invention)

International class (IPC 1–7)**:** B60J1/14 E05F11/38

CPC: E05F11/382 E05Y2900/55

European class: E05F11/38B P05Y900/550

US class: 49/144

Classification Explorer

Forward Citations: US2808914, US2687327, US2559120,

Abstract:
Source: US2053854A 1. In a motor vehicle body, the combination with a paneled structure having a substantially rectagular window opening therein, of an integral metal frame of substantially rectangular shape and having a width measured longitudinally of the body less than the width of said opening, said metal frame being rigidly secured. in said opening at the forward end of the latter to divide the opening into a rearward portion and a frame enclosed forward portion, a window supported for sliding movement in the rearward portion of said opening, guide means for said window carried by said frame, and a. second window pivoted in said frame for swinging movement about a substantially vertical axis into and out of the plane of the frame.

0) US2122566A – WINDSHIELD

3) Family number: 21489588 (US2122566A) © PatBase

Title:	WINDSHIELD
Priority:	US19360073711 19360410

Family:

Publication number	Publication date	Application number	Application date
US2122566 A	19380705	US19360073711	19360410

Probable Assignee:	ROSE G FOSTER
Assignee(s):(std)**:**	MORTON WEISS ; ROSE G FOSTER
Inventor(s):(std)**:**	FOSTER WILLIAM H
International class (IPC 8–9)**:**	B60S1/02 (Advanced/Invention); B60S1/02 (Core/Invention)
International class (IPC 1–7)**:**	B60J1/04
CPC:	B60S1/02
European class:	B60S1/02
US class:	296/96.15

Classification Explorer

Forward Citations: FR2190808, FR2190808,

Abstract:
Source: US2122566A 1. In a windshield, in combination, a wind. shield glass having an opening therein, a, glass panel conforming generally to the outline of said opening, said opening being symmetrical on opposite sides of a vertical center line, a pivotal mounting for the panel including pivoting means at top and bottom points on the same, the pivotal axis ol such mounting lying substantially in said center line, and means for sealing the panel in its opening in a Water–tight manner when the panel is arranged substantially parallel with the windshield glass, said means including a structiue parts of which are formed of resilient material, said structure carried by one of said panels and said opening and including elongate beads establishing between thcm an elongate channel.

0) US2236447A – WINDOW GUIDE

4) Family number: 19216808 (US2236447A) © PatBase

Title: WINDOW GUIDE

Priority: US19370166615 19370930

Family:

Publication number	Publication date	Application number	Application date
FR843732 A	19390710		19380920
GB518449 A	19400227	GB19380028342	19380929
US2236447 A	19410325	US19370166615	19370930

Probable Assignee: MARVEL EQUIPMENT CORP

Assignee(s):(std)**:** MARVEL EQUIPMENT CORP

Inventor(s):(std)**:** ROETHEL JOHN H

International class (IPC 8–9)**:** B60J1/17 B60J10/04 E05F11/38 E05F11/44 (Advanced/Invention); B60J1/17 B60J10/02 E05F11/38 (Core/Invention)

International class (IPC 1–7)**:** B60J1/17 E05F11/38

CPC: E05F11/382 B60J1/17 B60J10/74 E05F11/445 E05Y2900/55

European class: B60J1/17 B60J10/04 E05F11/38B E05F11/44B P05Y900/550

US class: 49/375 49/421

Classification Explorer

Forward Citations: US5524388, US2481536, DE1172551,

Abstract:
Source: US2236447A 1. A combined retainer and guide structure for a vehicle window panel adapted to be mounted in a window frame for up and down sliding movement, comprising 9. metal channel member adapted to be secured to the lower edge of the panel and having means for connection thereto of a window regulator, and a guide member secured to the bottom of said channel member and projecting in a direction longitudinally of the channel member beyond one end thereof– and adapted to cooperate with a ilxed guide carried by the window frame, said guide member comprising a projecting stud and a spring pressed compression device slidable on the stud ln a direction longltudinally of the channel member and adapted ,to slidingly engage a llxed upright guide on the window frame.

0) US2507287A – VENTILATOR DRIP SHIELD

5) Family number: 21642439 (US2507287A) © PatBase

Title: VENTILATOR DRIP SHIELD

Priority: US19490089647 19490426

Family:

Publication number	Publication date	Application number	Application date
US2507287 A	19500509	US19490089647	19490426

Probable Assignee: AMELIA WERNER LOUISE

Assignee(s):(std)**:** AMELIA WERNER LOUISE

Inventor(s):(std)**:** AMELIA WERNER LOUISE

Inventor(s): WERNER LOUISE AMELIA

International class (IPC 8–9)**:** B60J1/14 (Advanced/Invention); B60J1/12 (Core/Invention)

International class (IPC 1–7)**:** B60J1/14

CPC: B60J1/14

European class: B60J1/14

US class: 296/154 454/134

Classification Explorer

Cited documents: US2486408 A, US2465345 A, US2390260 A, US2060109 A, US1849176 A,

Forward Citations: US2692793, DE1247155,

Abstract:
Source: US2507287A (Claim 1) In a vehicle window for a vehicle having li5 spaced wall portions with a drain to the outside of said vehicle for water collecting between sai–d spaced wall portions, vrhich window comarises a no–draft ventilator having a window–palie Pivotal abolit a generally vertical axi–S inter– OU mediate its ends from a Closed –Dosition in the general plane of the entire wind–ow to an open position with the forward portion thereof extending into the vehicie and a posterior portion thereof extending outside the vehicle, the im– provement which cor–,iprises a rigid drip shield attached to the lower window frame flange for the purpose of separating out water carried by the air stream entering a moving vehicle through said no–draft ventilator, said drip shield com– prising a generally upstanding baffle surface, and means for drainitig water impinging on said baffle surface to the space between said spaced wall portions, said baffle surface being, spaced from the surface generated by the lower forward edges of the pivota win o pane as it is moved from closed to open position and having contours cut by vertical planes through said windo_v of a shade generally correspond;ng to the bottom and forward portion of said pivotal wi–ndowpare, spid up,standing baffle surface exterdiiig 'ilo,,;7ardly 5 along the windox opening substantially to the _upper pivot of the window pane and in a trai,,sverse direction inwordly of said vehicle from the re.–ion of the sealing edge of said pivotal windowpane when said pivotal windowpad–e is in th_– 1,,) closed Position to change the direction of the air stream entering into said vehicle and cause water carried along NviLb it to strike sa,–d baffe surface, the inner ed_.,e of said bafrie 3urface havirig a defl,,cting iip projecti_–ig rearwa–,,–,dly l r) from,,3aid baffle surface.

0) GB699466A – WINDOW PANEL MOUNTING AND LOCKING MEANS

6) Family number: 20583242 (GB699466A) © PatBase

Title: WINDOW PANEL MOUNTING AND LOCKING MEANS

Priority: GB19510003346 19510212

Family:

Publication number	Publication date	Application number	Application date
GB699466 A	19531111	GB19510003346	19510212

Probable Assignee: WILLYS OVERLAND MOTORS INC

Assignee(s):(std)**:** WILLYS OVERLAND MOTORS INC

International class (IPC 8–9): B60J10/04 (Advanced/Invention); B60J10/02 (Core/Invention)

International class (IPC 1–7): E06B3/62

CPC: B60J10/74

European class: B60J10/04

Classification Explorer

Forward Citations: US2918706,

Abstract:
Source: GB699466A 699,466. Vehicle windows. WILLYS–. OVERLAND MOTORS. Inc. Feb. 12, 1951 [Feb. 10, 1950], No. 3346/51. Class 20(iii) [Also in Group XXV] A vehicle window comprises horizontal and vertical frame members 30, 31 and 32. a fixed panel 27 positioned by a resilient glazing strip 38, which is partly of channel section, Fig. 3, and partly of the section shown in Fig. 5, and a sliding panel 28 mounted in a felt lined channel strip 55, and sealing in its closed position against a lip 50 of the strip 38, the construction being completed by moulding strips 60 which are secured by screws 63 and 66 to tongues 65 struck out of the frame member 31 and to spaced clips 68 respectively. The strip 38 is provided with metal reinforcements 49 and the lower horizontal portion of the channel strip 55 has a series of spaced holes to allow water collecting therein to run to a trough 74 and a drainpipe 77. A felt draught excluder strip 80, Fig. 5, is secured on the fixed panel 27 in contact with the sliding panel 28 and a locking device 87 mounted on the upper moulding strip 60 and comprising a spring–pressed plunger 94 adapted to engage when the sliding panel is closed in a dishedmember 102 secured to the fixed panel 27 prevents opening of the window from the outside,

0) US2721636A – WINDOW PANEL MOUNTING AND LOCKING MEANS

7) Family number: 22434162 (US2721636A) © PatBase

Title:	WINDOW PANEL MOUNTING AND LOCKING MEANS
Priority:	US19500143514 19500210

Family:

Publication number	Publication date	Application number	Application date
US2721636 A	19551025	US19500143514	19500210

Probable Assignee:	BANK OF AMERICA NAT TRUST AND SAVINGS ASS
Assignee(s):(std):	BANK OF AMERICA NAT TRUST AND ; BANK OF AMERICA NAT TRUST AND SAVINGS ASS
Assignee(s):	BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIA ; BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION
Inventor(s):(std):	ORDORICA MIGUEL A ; PURSELL JOHN E
International class (IPC 8–9):	B60J10/02 B60J10/04 (Advanced/Invention); B60J10/02 (Core/Invention)
International class (IPC 1–7):	B60J1/16
CPC:	Y10S292/46 B60J10/74 B60J10/70
European class:	B60J10/02 B60J10/04
US class:	292/DIG.46 49/408 49/413 49/449 52/204.51
Classification Explorer	
Cited documents:	US90092 A, US866073 A, US2494161 A, US2274730 A, US2192519 A, US1636008 A, US1451026 A, GB623957 A, GB580618 A, GB568824 A, GB525916 A, GB482541 A, GB163872 A, FR29858 E,
Forward Citations:	USRE41502, US9126474, US8668989, US8322073, US8048529, US5829195, US5809706, US5799449, US5522191, US5209018, US3827184, US3490176, US2004020131, US2003213179,

Abstract:
Source: US2721636A (Claim 1) 1. Window construction and mounting means including a stationary panel arranged to be secured in a window opening and occupy a portion of the window area; a seec)nd panel slidably movable in a direction parallel to said first mentioned panel and occupying the remaining portion of the window area when in closed position; a weather strip formed of yieldable material completely surrounding and defining the window area; said weather strip being formed with a recess to receive and support the stationary panel and form therewith a weather–tight joint; a stationary channel–shaped guiding means coextensively arranged adjacent said weather strip and directly engaging the surfaces of and forming a run for guiding said movable panel; a metal escutcheon surrounding said window opening and coextensively disposed adjacent the movable win– dow guiding means; movable abutment means – nornially projecting into the path of movement of the slidable panel for retaining the latter in closed positioii; said abutment means being supported by and depending from said escutcheon; said abutment means being manually movable 7o to a position out of the path of movement of the slidable panel whereby the latter may be moved to full open or intermediate positions, said abutment means engaging a surface of the slidable panel when the latter is moved from closed position.

0) US3017674A – SLIDING DOOR ARRANGEMENT FOR VEHICLES SUCH AS R...

8) Family number: 20514477 (US3017674A) © PatBase

Title: SLIDING DOOR ARRANGEMENT FOR VEHICLES SUCH AS RAILROAD CARS

Priority: DE1956S050325 19560911 DE1957S055414 19571002 DE1958R023722 19580721

Family:

Publication number	Publication date	Application number	Application date
BE560545 A	00000000		00000000
CH357088 A	19610930		19570821
CH367847 A	19630315	CH19580064475	19580929
DE1116260 B	19611102	DE1956S050325	19560911
DE1136363 B	19620913	DE1957S055414	19571002
DE1169983 B	19640514	DE1958R023722	19580721
FR1189943 A	19591008		19570906
GB831355 A	19600330	GB19570028713	19570911
GB854496 A	19601123	GB19580031387	19581001
NL103323 C	00000000		00000000
NL108024 C	00000000		00000000
NL120380 C	00000000		00000000
NL231844 A	00000000		00000000
NL233518 A	00000000		00000000
US2997753 A	19610829	US19570681917	19570904
US3017674 A	19620123	US19580764627	19581001

Probable Assignee: RHEINSTAHL SIEGENER EISENBAHNB

Assignee(s):(std)**:** RHEINSTAHL SIEGENER EISENBAHNB ; RHEINSTAHL SIEGENER EISENBAHUB

Assignee(s): RHEINSTAHL SIEGENER EISENBAHNBEDARF GMBH ; RHEINSTAHL SIEGENER EISENBAHNBEHARF AG ; RHEINSTAHL SIEGENER EISENBAHUBEDARF AG ; RHEINSTAHL SIEGENER EISENBAHNBEDARF A G ; RHEINSTAHL SIEGENER EISENBAHNBEDARF AG ; RHEINSTAHL SIEGENER EISENBAHNBEDARF AKTIENGESELLSC ; RHEINSTAHL SIEGENER EISENBAHNBEDARF AKTIENGESELLSCHAFT ; RHEINSTAHL SIEGENER EISENBAHUBEDARF A G ; RHEINSTAHL SIEGENER EISENBAHNBEHARF A G ; RHEINSTAHL SIEGENER EISENBAHNBEDARF G M B H

Inventor(s):(std)**:** BRILL FRITZ DIPL ING ; EMIL BRILL FRIEDRICH ; FRIEDRICH EMIL BRILL ; FRITZ BRILL ; KARL RAAB ; KEIL WALTER ; RAAB DIPL ING DR KARL ; RAAB DR ING KARL ; RAAB KARL DR ; TITTELBACH DIPL ING FRITZ ; TITTELBACH FRITZ DIPL ING ; WALTER KEIL ; BRILL DIPL ING FRITZ

Inventor(s): BRILL FRIEDRICH EMIL ; BRILL FRITZ ; RAAB KARL

International class (IPC 8–9)**:** B61D19/00 B61D39/00 E05D15/10 (Advanced/Invention) ; B61D19/00 B61D39/00 E05D15/10 (Core/Invention)

International class (IPC 1–7)**:** B60J5/06 B61D19/00

CPC: Y10T16/379 E05D15/1044 B61D19/007 B61D39/002 E05D2015/1055 E05D2015/1063 E05Y2900/51 Y10T292/1049

European class: B61D19/00C3D B61D39/00C E05D15/10S1 P05D15/10S5 P05D15/10S9 P05Y900/510

US class: 105/377.09 16/96.00R 16/96R 292/218 49/130 49/209

Classification Explorer

Cited documents: US648889 A, US470089 A, US438325 A, US433256 A, US2709969 A, US2690141 A, US2650392 A, US2625421 A, US2587348 A, US2587027 A, US2559447 A, US2511425 A, US2320216 A, US2269631 A, US2269630 A, US2228711 A, US2201737 A, US2170053 A, US2062757 A, US1835100 A, US1832014 A, US1720933 A, US1596008 A, US1522494 A, US1448287 A, US1433324 A, US1303984 A, US1220263 A,

US1068540 A, GB607361 A, GB233567 A, GB190714958 A, DE923669 A, DE871461 A, DE839365 A, DE713968 A, DE542624 A, DE527175 A, DE421173 A, DE369377 A, DE366375 A, DE1713409 U,

Forward Citations: WO0210539, WO0210539, US8113607, US3695661, US2010281931, DK150933, DE1605040, DE1274156, DE1176690,

Abstract:
Source: GB831355A 831,355. Vehicle doors. RHEINSTAHL SIEGENER EISENBAHNBEDARF A. G., [formerly SIEGENER EISENBAHNBEDARF A. G Sept. 11, 1957 [Sept. 11, 1956], No. 28713/57. Class 103(4) Sliding wall panels 19, Figs. 6, 6a, of a railroad freight car which comprise beams 20, 21 extend in a common plane between corner posts 4, Fig. 1, and intermediate posts 5 to enclose the car sides by sliding past posts 5 by means of rear rollers 48, which engage overhead support rails 26 on car−connecting beams 7 and by front rollers 47 which travel on rails 27, or travel first of all a short distance on intermediate rails 50 which are on the posts 5 in alignment with the rails 27. The rails 26 are bent at their ends near the corner posts 4 so that as rollers 48 roll therealong upon closure of a panel 19, the panel moves inwardly from a position in which it can slide past the other panel to a position in a common plane therewith. A lever 29 pivots about a shaft 28 having a claw 30 which engages a bolt on each of the end portions of the panels adjacent the posts 5 in the common plane with each other when in the closed position to swing the panels to their sliding position outside the common plane to allow movement past the post 5 and the other panel lever 29. The lower edges of the panels have guide rollers 51 and locking means are provided on the levers which comprise a projection which engages a corresponding opening in the panel 19 with the lever against the panel in its closed position. At one end each panel 19 has a sleeve 34, Fig. 2, which has a ram 42 slidably positioned therein which co−operates with a spring 41 in a vertical recess 9 in the corner post 4 when in the closed position and the panel is also in contact with a surface 10 of the recess so that the surface forms a thrust bearing for any load from within the car. A flange 11 on the post 4 together with the edge of the panel 19 forms a seal. The panels 19 each have at their other ends a closure plate with a sealing flange 25 parallel to the panel 19 which engages around a leg on the central posts 5 by means of a nose 23 to form a seal which is resiliently secured in this position by means of the springs 41 at the other end of the panel and by the locking means. The end walls may comprise a number of panels 6 extending between the corner posts 4; a multipanel door 93, Fig. 10, braced by a bar 99, the panels being connected by hinges 94 to the corner posts and having a central, hinged door 92, or the end walls may comprise an upper part hinged at its lower edge to a rigid lower portion. Specification 726,899 is referred to.

0) GB831021A – POWER OPERATED WINDOW REGULATORS

9) Family number: 20772979 (GB831021A) © PatBase

Title: Power operated window regulators

Priority: 19561121

Family:

Publication number	Publication date	Application number	Application date
GB831021 A	19600323	GB19570034842	19571108

Probable Assignee: HUPP CORP

Assignee(s):(std)**:** HUPP CORP

International class (IPC 8–9)**:** E05F11/38 (Advanced/Invention)

International class (IPC 1–7)**:** B60J1/17 E05F11/38

CPC: E05F11/382 E05Y2900/55

European class: E05F11/38B P05Y900/550

Classification Explorer

Abstract:
Source: GB831021A 831,021. Window operating apparatus. HUPP CORPORATION. Nov. 8, 1957 [Nov. 21, 1956], No. 34842/57. Class 20(3) In a power operated window regulator the main mounting plate 22 carries a gear sector 30 which is connected directly or through an intermediate link to a linkage for raising or lowering the window, and is so shaped that a lower mounting plate 24 having an area shaped complementarily may be secured to the main mounting plate in a number of different positions to allow for left– or right–hand mounting and c. As shown the lower mounting plate has an annular part 90 which is invariant relative to the main plate 22 on turning the lower plate through about 180 degrees clockwise from the position shown. A cover 28 for reduction gearing from the motor 26 which is secured to a flange 94 is pressed out from the lower mounting plate. The plates are spot welded together. In a modification a die cast lower mounting plate is described which is bolted to the main plate. Specification 692,134 is referred to.

0) GB925549A – IMPROVEMENTS IN OR RELATING TO AN AUTOMOBILE CO...

10) Family number: 266353 (GB925549A) © PatBase

Title: IMPROVEMENTS IN OR RELATING TO AN AUTOMOBILE CONSTRUCTION

Priority: FR19610877718 19611102 GB19600037684 19601102

Family:

Publication number	Publication date	Application number	Application date
DE1480647 A1	19690717	DE19611480647	19611028
FR1305776 A	19621005	FR19610877718	19611102
GB925549 A	19630508	GB19600037684	19601102

Probable Assignee: YAT CHUEN YUEN

Assignee(s):(std)**:** YAT CHUEN YUEN

Inventor(s):(std)**:** YUEN YAT CHUEN

International class (IPC 8–9)**:** B60J1/00 B60J1/20 B60J3/00 B60J5/04 (Advanced/Invention); B60J1/00 B60J1/20 B60J3/00 B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00 B60J1/17

CPC: E05Y2900/55 B60J3/007 B60J1/001 B60J1/2011 E05F11/445 E05F11/465

European class: B60J1/00B B60J1/20B B60J3/00C B60J5/04 E05F11/44B E05F11/46B

Classification Explorer

Forward Citations: DE102010012655,

Abstract:
Source: GB925549A 925,549. Road vehicle bodies. YAT CHUEN YUEN. Nov. 2, 1960, No. 37684/60. Class 108(1). An automobile has its side walls constructed of or lined with double walled plastic panels provided with strengthening distance pieces which may hold screws, the space between the panels being evacuated and the internal surfaces of the panels being preferably silvered or otherwise coated with heat reflecting material, (see also Specification 925,550 [Group X]). In Fig. 5 the double panel 60, 61 may be evacuated through holes 64, 66 in a boss 62 provided with a plug 67. The angle of the windscreen and rear light is about 20 degrees in Fig. 6. Specification 876,163 also is referred to.

0) US3553833A – HEATED GLASS STRUCTURES

11) Family number: 21131275 (US3553833A) © PatBase

Title: HEATED GLASS STRUCTURES

Priority: BE19650662903 19650422 DE1964V016223U 19640423 DE1964V027114 19641109 DE1965V027765 19650212 DE1966C040691 19661114 US19720318115 19721226 US19670682173 19671113

Family:

Publication number	Publication date	Application number	Application date
BE662903 A	19651022	BE19650662903	19650422
BE706440 A	19680513		00000000
BE723544 A	19690507		00000000
BR6803924 A0	19730123	BR19680203924	19681112
CH466056 A	19681130	CH19670015880	19671114
CH482379 A	19691130	CH19680016941	19681113
CH483178 A	19691215	CH19680016940	19681113
DE1291647 B	19690327	DE1965V027765	19650212
DE1480445 B1	19691023	DE19641480445	19641109
DE1555053 B1	19700430	DE19661555053	19661114
DE1807643 A1	19690619	DE19681807643	19681107
DE1807643 B2	19701119	DE19681807643	19681107
DE1900484 U	19640910	DE1964V016223U	19640423
DK123199 B	19720523	DK19680005493	19681112
ES312177 A1	19660116	ES19650312177	19650423
ES347156 A2	19690116	ES19670347156	19671114
ES360197 A2	19701116	ES19680360197	19681113
FI52259 B	19770331	FI19680003246	19681113
FI52259 C	19770711	FI19680003246	19681113
FI52260 B	19770331	FI19680003247	19681113
FI52260 C	19770711	FI19680003247	19681113
FR1464585 A	19670106	FR19650010518	19650324
FR93853 E	19690530	FR19670127930	19671113
FR96087 E	19720519		00000000
GB1145367 A	19690312	GB19660030581	19660707
GB1209777 A	19701021	GB19670051819	19671114
GB1250202 A	19711020		00000000
NL156294 B	19780315	NL19670015459	19671114
NL168391 B	19811016	NL19680015837	19681107
NL6715459 A	19680515	NL19670015459	19671114
NL6815837 A	19690516	NL19680015837	19681107
NO123655 B	19711227	NO19680004483	19681112
NO130228 B	19740729	NO19670170497	19671113
SE326805 B	19700803	SE19670015636	19671114
SE368180 B	19740624	SE19680015109	19681107
US3553833 A	19710112		00000000
US3813519 A	19740528	US19720318115	19721226

Probable Assignee: SAINT GOBAIN

Assignee(s):(std)**:** SAINT GOBAIN ; CIE DE SAINT GOBAIN ; VER GLASWERKE GMBH

Assignee(s):

CO DE SAINT GOBAIN ; CO DE SAINT GOBAIN FR ; COMPAGNIE DE SAINT GOBAIN ; GLASWERKE GMBH VER ; COMPAGNIE DE SAINT GOBAIN SOCIETE ANONYME NEUILLY SUR SEINE FRANKRIJK ; COMPAGNIE DE SAINT GOBAIN SOCIETE ANONYME TE NEUILLY SUR SEINE FRANKRIJK ; DE SAINT GOBAIN COMP ; DE SAINT GOBAIN SOC ANONYME NEUILLY SUR SEINE FRANKRIJK COMP ; DE SAINT GOBAIN SOC ANONYME TE NEUILLY SUR SEINE FRANKRIJK COMP ; VEREINIGTE GLASWERKE

Inventor(s):(std)**:** ACKER ROLF ; ACKER R ; HANS DIETER PEETZ ; HANS DIETER PEETZ DIPL ING ; HEINZ KARLA ; JOCHIM F ; KARLA HEINZ ; KARLA HEINZ GEORG ; LUERSSEN H ; LUERSSEN HERMANN ; NOWOCZYN H ; NOWOCZYN HANS WERNER ; NOWOZCYN DR HANS WERNER ; JOCHIM FRIEDRICH ; KARLA H ; NOWOZCYN H ; NOWOZCYN HANS DIETER DR ; PEETZ D ; PEETZ DIETER ; PEETZ DIPL ING HANS DIETER ; PEETZ H ; PEETZ HANS DIETER ; PUTZ H ; ROLF ACKER

Inventor(s): PEETZ H DT ; PEETZ DIPL INGHANS DIETER ; PEETZ D DT ; NOWOZCYN H DT ; KARLA H DT ; NOWOZCYN DRHANS WERNER ; LUERSSEN H DT ; JOCHIM F DT ; HERMANN LUERSSEN ; HANS WERNER NOWOCZYN ; ACKER R DT ; DIETER PEETZ ; DIETER PEETZ HANS ; FRIEDRICH JOCHIM

International class (IPC 8–9)**:** B41F15/08 B41M1/12 B41M1/34 B41M5/00 B60J1/02 B60S1/02 B60S1/58 B64D15/12 B64D15/14 C03B23/02 C03C27/12 C09B23/08 C25D21/02 C25D21/12 G01R31/02 H01B1/16 H01C17/06 H01C17/075 H01C17/16 H01C17/24 H05B3/84 (Advanced/Invention); B41M1/12 (Advanced/Non–invention); B41F15/08 B41M1/12 B41M1/26 B41M5/00 B60J1/02 B60S1/02 B60S1/56 B64D15/00 C03B23/02 C03C27/12 C09B23/00 C25D21/00 C25D21/12 G01R31/02 H01B1/14 H01C17/06 H01C17/075 H01C17/22 H05B3/84 (Core/Invention); B41M1/12 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/00 B60J1/02 B60J1/20 B60S1/02 B64D15/12 C03C17/04 C03C17/08 C23B7/00 C25D3/00 E06B7/12 H01C17/00 H05B3/06 H05B3/12 H05B3/22 H05B3/26 H05B3/28

CPC: Y10T29/49083 Y10T29/49099 Y10T29/49155 Y10T428/24479 Y10T428/24777 Y10T428/26 B60S1/586 C03B23/02 B41M5/00 B60J1/02 B60S1/026 H01B1/16 B64D15/12 B41F15/08 B41M1/12 B41M1/34 B64D15/14 C09B23/083 C25D21/02 C25D21/12 G01R31/026 H01C17/06 H01C17/075 H01C17/16 H01C17/24 H01C17/2412 H05B3/84 H05B2203/016 H05B2203/017

European class: B41F15/08 B41M1/12 B41M1/34 B41M5/00 B60J1/02 B60S1/02B2 B60S1/58D B64D15/12 B64D15/14 C03B23/02 C09B23/08B C25D21/02 C25D21/12 G01R31/02C4 H01B1/16 H01C17/06 H01C17/075 H01C17/16 H01C17/24 H01C17/24E H05B3/84 L41M1/12 L64D700/62D5G4C T05B203/016 T05B203/017

US class: 101/126 101/128.4 219/203 219/52.2 219/522 219/543 29/611 29/620 29/846 338/217 338/309 428/156 428/192 428/332 428/426

Classification Explorer

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Forward Citations: WO06063064, WO06059025, WO03011607, WO02100129, US9595768, US9573846, US9370048, US8278609, US7731373, US7652226, US7582833, US7362491, US7344059, US7053313, US6891134, US6640434, US6267630, US5824993, US5798499, US5716536, US5075535, US4971848, US4958560, US4920635, US4876178, US4874930, US4814586, US4752672, US4707586, US4582981, US4545339, US4455481, US4453669, US4450346, US4436575, US4419570, US4415196, US4396900, US4395622, US4315134, US4251316, US4246467, US4196338, US4137447, US4109133, US4035576, US4004126, US3995142, US3928748, US3912905, US3865680, US3852564, US3851581, US3851368, US3813519, US3673044, US3532858, US2016068272, US2014138155, US2013233842, US2013220682, US2012067641, US2011114631, US2011109115, US2010236608, US2010200293, US2009147360, US2008164248, US2007188842, US2007181565, US2006157462, US2006065435, US2005035090, US2004155026, US2004031146, KR101246303, KR100758255, JP54016182, JP49002596, GB2157137, FR2963311, FR2743973, FR2737075, FR2679384, FR2618264, FR2558652, FR2484397, FR2473243, FR2448335, FR2202423, FR2202423, FR2202422, FR2202422, EP3031671, EP1684546, EP1412198, EP0785700, EP0678750, EP0559035, EP0524113, EP0522907, EP0410839, EP0314053, EP0299868, EP0281351, EP0245092, EP0032139, DK154334, DE4333655, DE4333655, DE4129578, DE4120653, DE3828526, DE3645101, DE3604437, DE3004131, DE2632164, DE2411838, DE19735282, CN102470470, CN102470470, BE1014219,

Abstract:
Source: US3553833A 1,209,777. Stencilling. COMPAGNIE DE SAINT−GOBAIN. 14 Nov., 1967 [14 Nov., 1966], No. 51819/67. Addition to 1,145,367. Heading B6C. [Also in Division H5] The heatable glass sheet of the parent Specification has its resistance bands 2 initially deposited by a screen−printing process. The stencil is produced in the printing fabric by coating the fabric with a light−sensitive copying solution, which is exposed to light through a diapositive corresponding to the printed pattern, hardened in the areas exposed and washed out in the unexposed areas. The printing fabric is held with its threads at an angle of between 14 and 76 degrees, preferably 45 degrees, to the bands when printed. Since the meshes are either completely closed or fully open, the bands formed from this fabric have regularly spaced projections along their sides forming a sawtooth outline, Fig. 2. Since electrodeposition favours such projections, the reinforcing conductive coating thereafter formed is uniform. The fabric is adhered to a printing frame 10 with the threads running diagonally thereof and is evenly tensioned by pumping up a rubber tube (12) fitted in a channel 11 around the frame.

0) US3511186A – SUSPENDED RAILWAY CAR FLUIDICLY SUPPORTED

12) Family number: 24746375 (US3511186A) © PatBase

Title: SUSPENDED RAILWAY CAR FLUIDICLY SUPPORTED

Priority: CH19670000039 19670103 FR19650079989 19651014 FR19660046415 19660119 FR19670109425 19670607 FR19660079989 19661014

Family:

Publication number	Publication date	Application number	Application date
BE691888 A	19670529		19661228
BE715162 A	19680930		19680515
BR6786364 A0	19730628	BR19670186364	19670119
CH451993 A	19680515	CH19670000039	19670103
CH505721 A	19710415	CH19680007458	19680520
DE1580861 A1	19700423	DE19661580861	19661230
DE1580861 B2	19740815	DE19661580861	19661230
DE1580861 C3	19750417	DE19661580861	19661230
DE1580871 A1	19700723	DE1967B094934	19671013
DE1580871 B2	19770929	DE1967B094934	19671013
DE1580871 C3	19780524	DE1967B094934	19671013
DE1755608 A1	19720105	DE19681755608	19680528
ES335595 A1	19671201	ES19670335595	19670113
FR1474851 A	19670331	FR19660046415	19660119
FR91423 E	19680607	FR19660079989	19661014
FR93421 E	19690328	FR19670109425	19670607
GB1167621 A	19691015	GB19670000450	19670104
GB1198268 A	19700708	GB19670046780	19671013
GB1224334 A	19710310	GB19680023831	19680520
NL152798 B	19770415	NL19670000402	19670111
NL6700402 A	19670720	NL19670000402	19670111
NL6807480 A	19681209	NL19680007480	19680527
OA2287 A	19700505	OA19660052701	19661227
SE325916 B	19700713	SE19660017773	19661227
SU437266 D	19740725	SU19671130060	19670119
SU437266 T	19740725	SU19671130060	19670119
US3511186 A	19700512	US19680729211	19680515
US3534689 A	19701020	US19670003818	19671009

Probable Assignee: MAURICE BARTHALON PARIJS

Assignee(s):(std)**:** BARTHALON M ; BARTHALON MAURICE ; INOSTRANETS MORIS BARTALON

Assignee(s): MAURICE BARTHALON ; MAURICE BARTHALON PARIJS ; BARTHALON MAURICE PARIS

Inventor(s):(std)**:** INOSTRANETS MORIS BARTALON ; MAURICE BARTHALON ; BARTHALON M ; BARTHALON MAURICE

Inventor(s): BARTHALON MAURICE PARIS

International class (IPC 8–9)**:** B60J3/04 B60V3/04 B61B13/04 B61B13/08 B61B5/00 E01B25/08 E01B25/12 E01B25/22 E01B25/24 E01B25/26 (Advanced/Invention); B60J3/00 B60V3/00 B61B13/04 B61B13/08 B61B5/00 E01B25/00 (Core/Invention)

International class (IPC 1–7)**:** B60J3/04 B60V3/00 B60V3/04 B61B13/06 B61B13/08 B61B3/00 B61B3/02 B61B5/00 E01B

CPC: E01B25/08 B60J3/04 E01B25/24 B61B3/02 E01B25/26 B60V3/04 B61B13/04 B61B13/08 E01B25/12 E01B25/22

European class: B60J3/04 B60V3/04 B61B13/04 B61B13/08 E01B25/08 E01B25/12 E01B25/22 E01B25/24 E01B25/26

US class: 104/134 104/155 104/23.1 104/23.2 104/89 105/148 105/150 180/15 198/321 212/346

Classification Explorer

Cited documents: US3381541 A, US3233556 A, US3225228 A, US3167145 A, US3125964 A, US3106171 A, US2511979 A, US1698482 A,

Forward Citations: WO9423978, WO9208634, WO16109490, WO12061995, US9701319, US8783084, US8375865, US7124692, US7124692, US6708623, US6644209, US6279485, US5909710, US5669308, US5566620, US5542357, US5535963, US5460099, US5146854, US5020441, US4970967, US4970966, US4970964, US4970962, US4821647, US4698895, US4620358, US4102272, US4072109, US3971459, US3915093, US3872793, US3854403, US3841223, US3799061, US3797409, US3797398, US3738280, US3675582, US3631806, US3580181, US2015329097, US2012055367, US2011027057, US2007017410, US2006219124, US2004244633, US2004134373, JP56028901, JP53022283, JP52029089, JP51145191, ITMI20090804, GB2166102, FR2427427, FR2236705, FR2091929, EP0017856,

Abstract:
Source: US3511186A 1,224,334. Transporter systems; tracked hovercars. M. BARTHALON. 20 May, 1968 [7 June, 1967], No. 23831/68. Addition to 1,167,621 and 1,198,268. Headings B7K and B7L. The transporter system of parent Specifications comprising a powered car suspended from an overhead track beam by creating a subatmospheric pressure in lifting chambers formed between the car and the beam, is improved or modified in the following respects. The track beam 1 comprises adjustable wings 7 having projecting flanges 403 and the slide block 55 dovetails therein. The air extractor fans 427 extract air from a lifting chamber 420 and guide chambers 426 and discharge it through longitudinal nozzles 433 so as to impede the flow of air into the chambers 426. Lips are provided for sealing on each surface 411 of the slide block 55 and are equipped with friction shoes to engage the upper surface of each flange 403. The airconditioned car 9 is suspended from the slide block 55 by an evacuated springing chamber 408 communicating with the lifting chamber 420, and by hydropneumatic spring links 409. Successive slide blocks 55 are interconnected by flexible joints and successive cabins 9 by flexible bellows. The fans 427 may alternatively extract air directly from the guide chambers 426 (Fig. 10), and may be four in number, mounted on a frame 495 together with the windings 422 of the linear electric traction motor, the frame being spring−damper−mounted on the slide block. A points system (Fig. 13) joins a branch line 523 to a main line 522, 521, and comprises laterally pivotable side sections 526, 527 of the wings 524 and flanges 525, and a movable wing 537 rotatable about axis O by a pinion 544 meshing with a toothed section 545 movably housed in the beam 1, and guided by T−section slides 538, 539 sliding in grooves in the beam 1. In another embodiment, the points system comprises two wing sections (with flanges) connected to opposite ends of centrallypivoted cross−members which are oscillated by cranks on a shaft driven by a motor, so that the wing sections are retractable vertically and oppositely into slots in the beam 1 to set the points system in the two conditions. One of the wing sections is laterally pivotable as before. Each wing section is locked in working position by latches which engage in grooves in the interior of the beam 1 and which are on the end of a link joining the end of the cross−member to the wing section.

0) US3874028A – BEARING FOR SWIVEL HINGES

13) Family number: 17804486 (US3874028A) © PatBase

Title: BEARING FOR SWIVEL HINGES

Priority: DE19720029170U 19720805

Family:

Publication number	Publication date	Application number	Application date
DE7229170 U	19721102	DE19720229170U	19720805
FR2195291 A5	19740301	FR19730028521	19730803
GB1423871 A	19760204	GB19730037218	19730806
IT996585 A	19751210	IT19730069260	19730726
JP1115405 C3	19820929	JP19730082792	19730724
JP49058248 A2	19740606	JP19730082792	19730724
JP57002929 B4	19820119	JP19730082792	19730724
US3874028 A	19750401	US19730382832	19730726

Probable Assignee: SKF KUGELLAGERFAB GMBH

Assignee(s):(std)**:** SKF IND TRADING AND DEV ; SKF KUGELLAGERFABRIKEN GMBH

Assignee(s): SKF KUGELLAGERFAB GMBH ; SKF INDUSTRIAL TRADING DEVELOPMENT CO BV ; SKF INDUSTRIAL TRADING DEV CY BV NL ; SKF INDUSTRIAL TRADING DEV CY NL BV ; SKF IND TRADING AND DEVELOPMENT CO BV ; SKF INDUSTRIAL TRADING AND DEVELOPMENT CO BV ; SKF INDUSTRIAL TRADING AND DEVELOPMENT COMPANY B V

Inventor(s):(std)**:** BRANDENSTEIN MANFRED ; ERNST HORST ; OLSCHEWSKI ARMIN

International class(IPC 8–9)**:** E05D11/04 F16C11/04 F16C19/12 F16C19/16 F16C33/58 F16C33/78 (Advanced/Invention); E05D11/00 F16C11/04 F16C19/02 F16C33/58 F16C33/76 (Core/Invention)

International class(IPC 1–7)**:** B60J E05D11/00 E05D11/04 E05D3/02 F16C19/10 F16C19/12 F16C19/16 F16C33/58

CPC: F16C33/588 F16C19/166 E05D11/04 E05Y2900/531 F16C11/045 F16C19/12 F16C33/761 Y10T16/5379 F16C2350/54

European class: E05D11/04 F16C11/04 F16C11/04B F16C19/12 F16C19/16A4 F16C33/76B P05Y900/531

US class: 16/136 16/276

Classification Explorer

Cited documents: US924511 A, US757824 A, US2947021 A, US1885990 A, US1796068 A,

Forward Citations: US7578030, US7552512, US7203996, US4530609, US2007036350, US2006265838, US2004020014, JP62196826, FR2308826, EP1049880, EP0889254, DE4404193, DE4404193, DE19833114, DE19802454, DE19755547, DE19728606, DE19613928, DE102004053194, DE10126892, DE10126892, CN106761097, CN103388618,

Abstract:
Source: US3874028A A swivel hinge wherein a pair of cup shaped bearing rings are aligned in the same axial direction and have a plurality of balls arranged therebetween. Each of the bearing rings has an axially outward directed hinge supporting shoulder which is adapted to be received by respective hinge leaves, and a radially outward extending ball race surface supporting the balls. Each of the ball race surfaces terminate in an axially inwardly directed annular flange, the flange of one of the rings overlying and gripping the flange of the other of the rings so as to seal the bearing.

0) NL7900154A – INRICHTING TER BESCHERMING VAN EEN AUTORUIT OF ...

14) Family number: 4971855 (NL7900154A) © PatBase

Title: INRICHTING TER BESCHERMING VAN EEN AUTORUIT OF DERGELIJKE TEGEN IJS– EN SNEEUWAFZETTING. PLASTICS ANTI–FROST OR SNOW SHEET FOR CAR WINDOW – HAS SUCTION CUPS AT LEAST AT CORNERS FOR FIXING ON WINDOW OR NEARBY SMOOTH SURFACE

Priority: NL19790000154 19790109

Family:

Publication number	Publication date	Application number	Application date
NL7900154 A	19800711	NL19790000154	19790109

Probable Assignee: MARTEN DOUWE VAN D VEEN

Assignee(s):(std)**:** MARTEN DOUWE VAN D VEEN ; MARTEN DOUWE VAN DER VEEN

Assignee(s): MARTEN DOUWE VAN DER VEEN TE UITWELLINGERGA ; MARTEN DOUWE VAN D VEEN TE UITWELLINGERGA

International class (IPC 8–9): B60J1/20 B60J11/00 (Advanced/Invention); B60J1/20 B60J11/00 (Core/Invention)

International class (IPC 1–7): B60J1/20

CPC: B60J1/20 B60J11/08

European class: B60J1/20 B60J11/08

Classification Explorer

Abstract:
The arrangement prevents adhesion of ice or snow to a car window. It comprises a rectangular sheet of plastic foil (1) provided, at least at the corners, with suction cups (9) to secure the sheet on on the window pane or a smooth surface nearby. The sheet may have a flexible tubular seam (4) along at least one side contng. a resilient strip (5). The strip may be in carboard, or foam plastic. The cups may be fixed to the sheet by clamp rings (11) or press studs, which may have knobs (11) for ease of handling.

0) US4351016A – DEVICE FOR ARRESTING THE MOTION OF A MOTOR DRIV...

15) Family number: 1827389 (US4351016A) © PatBase

Title: DEVICE FOR ARRESTING THE MOTION OF A MOTOR DRIVEN PANEL

Priority: CA19800361568 19801002 DE19792939942 19791002

Family:

Publication number	Publication date	Application number	Application date
BR8006348 A	19810414	BR19800006348	19801002
CA1169949 A1	19840626	CA19800361568	19801002
DE2939942 A1	19810409	DE19792939942	19791002
DE2939942 C2	19860109	DE19792939942	19791002
EP0026719 A1	19810408	EP19800401393	19801002
EP0026719 B1	19840606	EP19800401393	19801002
ES495585 A0	19810616	ES19800495585	19801002
ES495585 A2	19810630	ES19800495585	19801002
ES8105903 A1	19810901	ES19800495585	19801002
JP56108481 A2	19810828	JP19800138207	19801002
PT71858 A	19801001	PT19800071858	19800930
PT71858 B	19810629	PT19800071858	19800930
US4351016 A	19820921	US19800192889	19801001
YU250180 A	19820831	YU19800002501	19801001

Probable Assignee: SAINT GOBAIN VITRAGE

Assignee(s):(std): GLASWERKE GMBH VER ; SAINT GOBAIN VITRAGE ; FHN VERBINDUNGSTECHNIK GMBH

Assignee(s): FHN VERBINDUNGSTECHNIK GMBH 8501 ECKENTAL DE ; GLASWERKE GMBH 5100 AACHEN DE VER ; FELBINGER WILLY ; VEREINIGTE GLASWERKE GMBH 5100 AACHEN DE ; SAINT GOBAIN VITRAGE S A ; SAINT GOBAIN VITRAGE A FRENCH CO ; SAINT GOBAIN VITRAGE SA

Inventor(s):(std): BUIRII FUERUBINGAA ; FELBINGER W ; FELBINGER WILLY

Inventor(s): NICHTNENNUNG ANTRAG AUF ; VERZICHT DES ERFINDERS AUF NENNUNG ; WILLY FELBINGER

Agent(s): GOUDREAU GAGE DUBUC

Designated states: BE FR GB IT SE

International class (IPC 8–9): B60J1/20 E05F15/00 E05F15/16 E05F15/20 G05B9/02 (Advanced/Invention); E05F15/00 E05F15/16 G05B9/02 (Core/Invention)

International class (IPC 1–7): B60J1/20 E05F15/00 E05F15/02 E05F15/16 E05F15/20 G05B9/02 H01H47/12 H01H67/00 H02P7/00

CPC: E05F15/46 E05Y2900/55

European class: E05F15/00B6F P05Y900/550

US class: 318/266 318/286 318/466 361/181 49/27 49/28

Classification Explorer

Cited documents: US3815005 A, US3764861 A, US3651389 A, US3624473 A, GB2013428 A1, FR2415711 A1, FR2111514 A5, FR2073975 A5, DE2934401 A1,

Forward Citations: WO9409240, WO0136772, WO0079085, US9417099, US9234979, US9033394, US8493081, US7504943, US6972575, US6962228, US6777958, US6750624, US6724324, US6723933, US6701673, US6700393, US6515441, US6469524, US6389752, US6337549, US6169379, US6043620, US5955854, US5621290, US5605429, US5545961, US5402075, US5203110, US5023529, US4983896, US4952855, US4943757, US4908554, US4810944, US4631461, US4621223, US4571884, US4458446, US4458445, US4453112, US4422521, US4410843, US2014041302, US2011169513, US2007095595, US2007022819, US2004112662,

US2003011225, US2002154039, JP60095088, GB2282848, GB2282848, FR2534306, EP1612822, EP0061970, EP0061409, DE4239609, DE29803365,

Abstract:
Source: US4351016A Apparatus is disclosed for arresting the motion of a motor driven panel wherein an electrical conductor along an exposed edge of the panel is connected to an electrical sensing circuit. The presence of an object in contact with the electrical conductor is sensed by the sensing circuit, which then operates a switching device. The switching device disconnects drive power to the motor, preventing motion of the panel for as long as the object is in contact with the electrical conductor.

0) US4367660A – WINDOW LIFT DRIVE

16) Family number: 30828554 (US4367660A) © PatBase

Title: WINDOW LIFT DRIVE

Priority: DE19792915669 19790418 DE19792952408 19791227 DE19792954590 19790418 GB19800012411 19800415 JP19800180606 19801222 DE19912056692U 19790418

Family:

Publication number	Publication date	Application number	Application date
AU198057357 A1	19810115	AU19800057357	19800411
AU519467 B2	19811203	AU19800057357	19800411
BR8002378 A	19801202	BR19800002378	19800417
BR8008451 A	19810714	BR19800008451	19801222
DE2915669 A1	19801023	DE19792915669	19790418
DE2915669 C2	19891130	DE19792915669	19790418
DE2952408 A1	19810702	DE19792952408	19791227
DE2952408 C2	19881117	DE19792952408	19791227
DE2954590 C2	19911010	DE19792954590	19790418
GB2048369 A1	19801210	GB19800012411	19800415
GB2121870 A1	19840104	GB19820026253	19800415
GB2121870 B2	19840606	GB19820026253	19800415
JP1602932 C3	19910329	JP19800180606	19801222
JP1607004 C3	19910613	JP19880037693	19880222
JP2028666 B4	19900626	JP19800180606	19801222
JP2029834 B4	19900703	JP19880037693	19880222
JP55142884 A2	19801107	JP19800048164	19800414
JP56097082 A2	19810805	JP19800180606	19801222
JP63261082 A2	19881027	JP19880037693	19880222
SU1083902 D	19840330	SU19803223547	19801222
SU1178332 D	19850907	SU19802901950	19800404
SU1281177 A3	19861230	SU19813373697	19811223
US4367660 A	19830111	US19800139420	19800411
US4428250 A	19840131	US19800220009	19801223

Probable Assignee: BROSE AND CO METALLWERK MAX

Assignee(s):(std)**:** BROSE AND CO METALLWERK MAX ; BROSE FAHRZEUGTEILE ; BROSE VERWALTUNG ; METALLVERK MAKS BROZE GMBKH U KO FA ; BUROOZE FUERUBUARUTSUNGUSU GMBH

Assignee(s): METALLWERK MAX BROSE GMBH AND CO ; METALLVERK MAKS BROZE GMBKH UND KO FIRMA ; METALLVERK MAKS BROZE GMBKH U KO FIRMA ; BROSE VERWALTUNGS GMBH ; BROSE VERWALTUNGSGESELLSCHAFT M B H ; METALLWERK MAX BROSE GMBH ; BROSE VERWALTUNGSGESELLSCHAFT MBH ; BROSE FAHRZEUGTEILE GMBH AND CO 8630 COBURG DE KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG 8630 COBURG DE ; BROSE VERWALT GMBH

Inventor(s):(std)**:** BEANTRAGT NICHTNENNUNG ; BECKER H ; BECKER HERBERT ; BEKER KHERBERT ; FOLKER GRAMS DE ; FUORUKAA GURAMUSU ; GERUHARUTO SHIERUHORUN ; GRAMS FOLKER ; GRAMS V ; GRAMS VOLKER ; H BECKER ; HERUBERUTO BETSUKAA ; KHERBERT BEKER DE ; M SUNKEL ; GERKHARD SHELKHORN DE ; MANFRED ZYUNKEL DE ; MANFUREETO ZUYUNKERU ; SCHELHORN G ; SCHELHORN GERHARD ; SHELKHORN GERKHARD ; SUENKEL MANFRED ; SUNKEL M ; SUNKEL MANFRED ; ZYUNKEL MANFRED

Inventor(s): VERZICHT DES ERFINDERS AUF NENNUNG ; NICHTNENNUNG ANTRAG AUF ; GERUHARUTO SHERUHORUN ; MANFRED SUNKEL ; HERBERT BECKER ; GERHARD SCHELHORN

Agent(s): FB RICE; FB RICE PTY LTD

International class (IPC 8–9):	B60J1/00 E05F11/38 E05F11/50 E05F15/10 E05F15/16 H02K7/10 (Advanced/Invention); B60J1/00 E05F11/38 E05F15/10 E05F15/16 H02K7/10 (Core/Invention)
International class (IPC 1–7):	B60J1/00 B60J1/17 B66D1/12 E05F11/50 E05F15/10 E05F15/14 E05F15/16 F16H1/16 F16H1/20 H02K7/10 H02K7/116 H03K7/10
CPC:	E05Y2201/49 E05F11/382 Y10T74/19633 Y10T74/19828 Y10T74/18848 Y10T74/19851 E05Y2800/12 H02K7/1004 E05F15/692 E05F15/697 E05F15/689 H02K7/1008 E05Y2201/10 E05Y2201/654 E05Y2201/664 E05Y2800/428 E05Y2900/55
European class:	E05F11/38B E05F15/16C E05F15/16C1 H02K7/10B H02K7/10B2 P05F15/16C5 P05Y201/10 P05Y201/654 P05Y201/664 P05Y800/12 P05Y800/428 P05Y900/550
US class:	254/362 49/352 74/411 74/425 74/431 74/625 74/89.22
Classification Explorer	
Cited documents:	WO8000092 A1, US516489 A, US4314692, US4167834 A, US4085629 A, US3706236 A, US3635100, US3554045 A, US3334443 A, US2848218 A, US2230756 A, US1876654 A, GB2029502 A1, GB1493294 A, DE7802575 U, DE2719617 A1, DE2609775 A1, DE2553677 B2, DE2553667 B2, DE2238889 A1, DE2149912 A1, DE2132067 A1,
Forward Citations:	WO12104113, WO04038162, US8887591, US8632106, US8429995, US8191442, US7263909, US7140151, US7098562, US7069696, US7044412, US6971277, US6889578, US6643979, US6591707, US6557688, US6288506, US6177742, US6014915, US5913937, US5564231, US5559409, US5307704, US5199310, US5172463, US5161431, US5109725, US5095766, US5040430, US5027670, US5006766, US4970827, US4899608, US4821589, US4774848, US4770056, US4748865, US4643040, US4589297, US4503732, US4499787, US2015345697, US2013074701, US2012247245, US2011175465, US2011167958, US2011167882, US2011120264, US2010320053, US2010000355, US2008093496, US2005072049, US2005067521, US2004164634, US2004099077, US2004025614, US2003160124, US2002095899, RU2483183, JP63054779, JP62141884, JP3043586, JP2300490, JP2300487, JP2012080775, JP2010124598, JP2002178747, FR2532983, EP1847728, EP1749964, EP1122390, EP0961053, EP0860572, EP0622513, EP0388500, EP0360912, EP0360911, EP0261525, EP0064763, DE4447151, DE4447151, DE4420692, DE4323008, DE3905589, DE3519056, DE3438255, DE3438254, DE3403259, DE102005063374, DE102005023816, DE102005022497, DE102005022497, CN103835608, CN103711399, CN102529753, CN102529753, CN101929510,

Abstract:
Source: US4367660A An electrical window lift drive especially for use in a motor vehicle, includes a drive housing, an electric motor attached to the housing having a shaft extending into the interior of the housing. A worm gear is mounted on the motor shaft for rotation thereby. A worm wheel is mounted for independent rotation coaxially with respect to a first portion of a bearing shaft inside the housing on a member intermediate the bearing shaft and the wheel. The bearing shaft is supported in the housing on both sides of the worm wheel and extends transversely of the motor shaft. The worm wheel meshes with and is driven by the worm gear. A drive member is mounted coaxially with respect to a second portion of the bearing shaft, and means are provided intermediate the worm gear and the drive member for transferring rotary motion of the worm gear to the drive member.

0) US4328451A – DEVICE FOR CONTROLLING THE ELECTRIC DRIVE MOTOR...

17) Family number: 1805449 (US4328451A) © PatBase

Title: DEVICE FOR CONTROLLING THE ELECTRIC DRIVE MOTOR OF A WINDOW RAISER IN PARTICULAR IN AN AUTOMOBILE VEHICLE

Priority: FR19790016694 19790628

Family:

Publication number	Publication date	Application number	Application date
DE3025116 A1	19810108	DE19803025116	19800630
DE3025116 C2	19900802	DE19803025116	19800630
ES493263 A0	19810416	ES19800493263	19800627
ES493263 A2	19810514	ES19800493263	19800627
ES8104850 A1	19810716	ES19800493263	19800627
FR2460383 A1	19810123	FR19790016694	19790628
FR2460383 B1	19830930	FR19790016694	19790628
GB2051946 A1	19810121	GB19800020842	19800625
GB2051946 B2	19830511	GB19800020842	19800625
IT1209806 A	19890830	IT19800068014	19800627
IT8068014 A0	19800627	IT19800068014	19800627
US4328451 A	19820504	US19800163236	19800625
YU168280 A	19831031	YU19800001682	19800627
YU44315 B	19900630	YU19800001682	19800627

Probable Assignee: ECIA EQUIPMENTS ET COMPOSANTS POUR L INDUSTRIE AUTOMOBILE

Assignee(s):(std)**:** PEUGEOT ACIERS ET OUTILLAGE

Assignee(s): PEUGEOT ACIERS OUTILLAGE ; ECIA EQUIPMENTS ET COMPOSANTS POUR L'INDUSTRIE AUT ; ECIA EQUIPMENTS ET COMPOSANTS POUR L'INDUSTRIE AUTOMOBILE ; ACIERS ET OUTILLAGE PEUGEOT ; ACIERS ET OUTILLAGE PEUGEOT A FRENCH BODY CORPORAT ; ACIERS ET OUTILLAGE PEUGEOT A FRENCH BODY CORPORATE ; ACIERS ET OUTILLAGE PEUGEOT AUDINCOURT FR ; ECIA EQUIPMENTS ET COMPOSANTS POUR L INDUSTRIE AUT ; ECIA EQUIPMENTS ET COMPOSANTS POUR L INDUSTRIE AUTOMOBILE ; ECIA EQUIPMENTS ET COMPOSANTS POUR L''INDUSTRIE AU

Inventor(s):(std)**:** BARGE JEAN ; BARGE JEAN A ; BAROE J ; BEANTRAGT NICHTNENNUNG

Inventor(s): JEAN BARGE ; VERZICHT DES ERFINDERS AUF NENNUNG

International class (IPC 8–9)**:** E05F15/16 H02P7/00 (Advanced/Invention); E05F15/00 E05F15/20 (Advanced/Non–invention); E05F15/16 H02P7/00 (Core/Invention); E05F15/00 E05F15/20 (Core/Non–invention)

International class (IPC 1–7)**:** B60J1/00 B60J1/17 E05F15/16 G05B11/18 G05B19/02

CPC: E05F15/00 E05Y2400/52 E05Y2201/41 E05Y2201/422 E05Y2201/434 E05Y2400/525 E05Y2400/57 E05Y2400/854 E05Y2400/86 E05Y2800/254 E05Y2900/55 E05F15/41 E05F15/695 E05F15/72 H02P7/03 E05F15/40

European class: E05F15/00B1 E05F15/16C3 H02P7/00E P05F15/20C P05Y201/41 P05Y201/422 P05Y201/434 P05Y400/525 P05Y400/57 P05Y400/86 P05Y800/252 P05Y900/550

US class: 318/265 318/266 318/267 318/466 318/469 318/470 318/596 318/599 318/663 318/667 318/684 49/28 49/31

Classification Explorer

Cited documents: US4072268 A, US3743912 A, US3624473 A, US2640958 A, GB1198439 A, DE7819547 U, DE2824510 A1, DE2654802 A1, DE2305731 A1, DE1070941 A,

Forward Citations: US8242736, US8080961, US7362068, US7282817, US7023161, US6989643, US6966149, US6859004, US6820369, US6759817, US6640494, US6434885, US6427749, US6274993, US6145252, US6085825, US6072290, US6060794,

US5483135, US5285137, US5023529, US5004961, US4977360, US4931714, US4900994, US4631461, US4608637, US4575662, US4562387, US4394605, US2010032980, US2009251080, US2007151158, US2007125000, US2006284486, US2006028162, US2005160675, US2005017667, US2004187391, US2004111970, US2004056623, US2004036430, US2002171384, FR2557049, FR2505919, EP2309088, EP1369987, EP1369987, EP1030427, EP0931899, EP0921256, EP0898039, EP0898039, EP0889192, EP0889192, EP0149940, EP0064929, DE3433204, DE3401864, DE3348489, DE3324107,

Abstract:
Source: US4328451A The device comprises for each window an electric driving motor and a selector which is adapted to ensure the selective supply of current to the motor, in one direction or the other, through a control circuit acting on a supply source. The supply source is of the type capable of delivering at least two distinct energy levels. The control circuit comprises means for applying to an input of the supply source an energy level control signal which produces, as a function of the position of the selector, the application of a torque to the motor when raising the window which is higher than the torque applied when descending the window.

0) US4475767A – SLIDING ROOF FOR AUTOMOBILES

18) Family number: 22399921 (US4475767A) © PatBase

Title: SLIDING ROOF FOR AUTOMOBILES

Priority: DE19813146905 19811126

Family:

Publication number	Publication date	Application number	Application date
DE3146905 A1	19830601	DE19813146905	19811126
DE3146905 C2	19841108	DE19813146905	19811126
FR2516870 A1	19830527	FR19820019687	19821124
FR2516870 B1	19901207	FR19820019687	19821124
GB2111590 A1	19830706	GB19820028704	19821007
GB2111590 B2	19850703	GB19820028704	19821007
IT1155082 A	19870121	IT19820024449	19821125
IT8224449 A0	19821125	IT19820024449	19821125
JP1588548 C3	19901119	JP19820203806	19821122
JP2010729 B4	19900309	JP19820203806	19821122
JP58093621 A2	19830603	JP19820203806	19821122
NL190106 B	19930601	NL19820004357	19821110
NL190106 C	19931101	NL19820004357	19821110
NL8204357 A	19830616	NL19820004357	19821110
SE444916 B	19860520	SE19820006716	19821125
SE444916 C	19860828	SE19820006716	19821125
SE8206716 A	19830527	SE19820006716D	19821125
SE8206716 A0	19821125	SE19820006716	19821125
SE8206716 L	19830527	SE19820006716	19821125
US4475767 A	19841009	US19820437669	19821029

Probable Assignee: ROCKWELL GOLDE GMBH

Assignee(s):(std)**:** ROCKWELL GOLDE GMBH ; ROCKWELL GOLDE GMBH TE FRANKFORT A D MAIN BONDSREP ; ROTSUKUUERU GORUDE GMBH

Assignee(s): ROCKWELL GOLDE GMBH TE FRANKFORT A D MAIN BONDSREPUBLIEK DUITSLAND ; ROCKWELL GOLDE GMBH TE FRANKFORT AD MAIN BONDSREPUBLIEK DUITSLAND ; ROCKWELL GOLDE GMBH 6000 FRANKFURT DE

Inventor(s):(std)**:** SCHEFER P ; SCHAFER PETER ; SCHAEFER PETER DIPL ING ; RAINER GRIMM PETER SCHAFER ET HORST BOHM ; RAINAA GURIMU ; R GRIMM ; PEETAA SHIEEFUAA ; P SCHEFER ; HORUSUTO BEEMU ; H BOHM ; GRIMM RAINER ; GRIMM R ; BOHM HORST ; BOHM H ; GRIMM RAINER ING GRAD ; BOEHM HORST ING GRAD

Inventor(s): BOEHM HORST ING ; GRIMM RAINER ING ; BOEHM HORST ING GRAD 6000 FRANKFURT DE ; GRIMM RAINER ING GRAD 6330 WETZLAR DE ; HORST BOHM ; PEETAA SHEEFUAA ; PETER SCHAFER ; RAINER GRIMM ; SCHAEFER PETER DIPL ING 6457 MAINTAL DE

International class (IPC 8–9): B60J10/12 B60J10/82 B60J7/043 B60J7/05 B60J7/057 (Advanced/Invention) ; B60J10/00 B60J7/04 (Core/Invention)

International class (IPC 1–7): B60J7/04 B60J7/057 E05F11/36

CPC: B60J10/82 B60J7/0435 B60J7/057

European class: B60J10/12 B60J7/043B B60J7/057

US class: 296/221 296/222 296/224

Classification Explorer

Cited documents:	US4407541 A, US4186525 A, US4089557 A, GB339236 A, GB1435387 A, FR2471876 A1, DE2950453 A1, DE2941516 A1, DE2933585 A1, DE2848344 A1, DE2351270 A1, DE2308080 A1,
Forward Citations:	US8840174, US6454347, US6199944, US5725273, US5011219, US4893868, US4749227, US4749225, US4624501, US2011233971, NL8303013, JP60099121, JP60004419, FR2586972, FR2573364, FR2539081, EP2368736, EP2368735, EP0321003, DE3423143, CN103459175, CN103459175, CN102198788, CN102198788,

Abstract:
Source: US4475767A A sliding roof for automobiles, comprising a raisable lid associated with a roof opening, which lid is pivotally journalled in the region of its forward edge about a horizontal axis oriented transversely to the direction of travel, is supported slidably on lateral guide rails on the forward third of its length and thereby can be displaced partly over the rear, fixed roof surface in its raised position while maintaining its raised angle, a raising device consisting of a threaded telescopic device participating displacements being provided in the region of the support on each side of the lid, the threaded nut of which is connected rotationally locked with a pinion coaxial therewith, which is in engagement with a threaded cable, journalled displaceably in tension and compression transmitting manner, of a drive device.

0) EP0146884A2 – ADJUSTABLE AIR SHIELD FOR THE WINDOWS OF MOTOR ...

19) Family number: 16952822 (EP0146884A2) © PatBase

Title: Adjustable air shield for the windows of motor vehicles.

Priority: IT19830023914U 19831221 EP19840115297 19841212

Family:

Publication number	Publication date	Application number	Application date
AT26810 E	19870515	AT19840115297T	19841212
DE3463349 D1	19870604	DE19843463349	19841212
EP0146884 A2	19850703	EP19840115297	19841212
EP0146884 A3	19850731	EP19840115297	19841212
EP0146884 B1	19870429	EP19840115297	19841212
ES283573 U	19850616	ES19840283573U	19841220
ES283573 Y	19860401	ES19840283573U	19841220
ES283573 Y1	19860503	ES19840283573U	19841220
IT8323914 U0	19831221	IT19830023914U	19831221

Probable Assignee: MASI LAMBERTO

Assignee(s):(std)**:** MASI LAMBERTO

Assignee(s): LAMBERTO MASI

Inventor(s):(std)**:** MASI LAMBERTO

Designated states: AT BE CH DE FR GB LI

International class (IPC 8–9)**:** B60J1/20 (Advanced/Invention); B60J1/20 (Core/Invention)

International class (IPC 1–7)**:** B60J1/20

CPC: B60J1/20

European class: B60J1/20

Classification Explorer

Cited documents: US3726207 A, US1942225 A, GB787228 A, GB609577 A, FR2443941 A1, EP0005358 A1,

Forward Citations: US6295713, US6073989, US6036256, US5992917, US5979969, US5947546, US5673959,

Abstract:
Source: EP0146884A2 An air shield (5) for the sliding glass windows of the front doors of motor vehicles, capable of adapting to windows (2) of any width and/or having differently sloping front edges (4). The air shield (5) comprises a downward–sloping front portion (7) and a horizontal rear portion (6) which adapt to the corresponding edges (4, 3) of the window (2), and is characterized by the fact that it comprises a hinge joint (12) between the two portions (6, 7) of the shield (5), said shield portions having facing edges (13, 14) diverging from the hinging point. Airtight means (18) prevent the passage of air in correspondence with the air gap between the facing edges (13, 14) of the two adjacent shield portions (6, 7).

20) Family number: 4623547 (US4492405A) © PatBase

Title: SEALING STRUCTURE FOR AUTOMOTIVE VEHICLE SIDE DOORS

Priority: JP19820124192 19820716

Family:

Publication number	Publication date	Application number	Application date
DE3380987 D1	19900125	DE19833380987	19830712
EP0099116 A2	19840125	EP19830106836	19830712
EP0099116 A3	19861008	EP19830106836	19830712
EP0099116 B1	19891220	EP19830106836	19830712
JP1498571 C3	19890529	JP19820124192	19820716
JP59014519 A2	19840125	JP19820124192	19820716
JP63047647 B4	19880922	JP19820124192	19820716
US4492405 A	19850108	US19830513401	19830714

Probable Assignee: NISSAN MOTOR CO LTD

Assignee(s):(std): NISSAN SHATAI CO LTD ; NISSAN SHATAI CO ; NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN JIDOSHA KK ; NISSAN MOTOR COMPANY LIMITED ; NISSAN SHATAI COMPANY LIMITED ; NITSUSAN JIDOSHA KK ; NISSAN SHATAI CO LTD HIRATSUKA KANAGAWA JP ; NISSAN MOTOR CO LTD YOKOHAMA KANAGAWA JP ; NITSUSAN SHIYATAI KK ; NITSUSAN SHATAI KK

Inventor(s):(std): CHIKARAISHI TAKAYO ; KAWAMO KAZUNORI ; TUCHIYA YOSIMASA ; TSUCHIYA YOSHIMASA ; KAWAOMO KAZUNORI

Inventor(s): KAWAMO KAZUNORI ATSUGI SHI KANAGAWA KEN JP ; CHIKARAISHI TAKAYO KAWASAKI SHI KANAGAWA KEN JP ; TSUCHA YOSHIMASA ; TUCHIYA YOSIMASA EBINA SHI KANAGAWA KEN JP

Designated states: DE FR GB

International class (IPC 8–9): B60J10/00 B60J10/08 B60J5/06 B60R13/07 E06B7/23 (Advanced/Invention); B60J10/00 B60J5/06 B60R13/00 E06B7/22 (Core/Invention)

International class (IPC 1–7): B60J5/04 B60J5/06 B60R13/06 B60R13/07 E06B7/22

CPC: B60J10/24 B60J10/248 B60J10/25 B60J10/30 B60J10/40 B60J10/85 B60J10/86 B60R13/07 B60J5/06

European class: B60J10/00D5 B60J10/00D5E B60J10/00D6 B60J10/00G B60J10/00J B60J10/08B2 B60J10/08C B60J5/06 B60R13/07

US class: 296/146 296/146.9 296/154 296/213 49/483 49/483.1

Classification Explorer

Cited documents: US4378130 A, US3728819 A, US3432966 A, JP57045420 U1, JP57045420 A2, JP57045419 A2, JP57041209 A2, GB1091332 A, EP0103734 A1,

Forward Citations: WO15072558, WO12057842, USD488243, USD474845, USD460563, US9649922, US9617112, US8342601, US8328268, US7823963, US7168755, US6751908, US6601345, US4979333, US4678227, US4582358, US2017182871, US2016082815, US2012139298, US2012091749, US2011186577, US2007252410, US2006186608, US2005253413, US2003005644, KR101242266, KR100946447, JP61124416, JP6055930, JP5028723, JP4050546, JP2015072558, JP2009269526, JP2008285067, JP2006248426, JP2006248424, FR2794490, EP3072722, EP1346864, EP1057673, CN105916715,

Abstract:
Source: US4492405A A sealing structure for an automotive vehicle is adapted to establish a water–proof seal for a type of vehicle which has no pillar between adjacent front and rear doors. The seal between the adjacent doors serves as a downspout for a vehicle roof gutter for draining any water which might leak from the gutter.

0) US4561690A – BODY STRUCTURE OF AUTOMOTIVE VEHICLE HAVING FRO...

21) Family number: 4931352 (US4561690A) © PatBase

Title: BODY STRUCTURE OF AUTOMOTIVE VEHICLE HAVING FRONT SWINGING DOOR AND REAR SLIDING DOOR AND HAVING NO PILLAR BETWEEN FRONT AND REAR DOORS

Priority: JP19820145857 19820823

Family:

Publication number	Publication date	Application number	Application date
DE3369288 D1	19870226	DE19833369288	19830810
EP0103734 A1	19840328	EP19830107913	19830810
EP0103734 B1	19870121	EP19830107913	19830810
JP59034922 A2	19840225	JP19820145857	19820823
US4561690 A	19851231	US19830524581	19830819

Probable Assignee: NISSAN MOTOR CO

Assignee(s):(std)**:** NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; NISSAN MOTOR COMPANY LIMITED ; NISSAN JIDOSHA KK

Inventor(s):(std)**:** CHIKARAISHI TAKAYO ; NAKAMURA YOSHIHARU ; NAKAMURA ZENJI ; SHINJIYOU TSUNEO ; SHINJO TUNEO

Designated states: DE FR GB

International class (IPC 8–9)**:** B60J5/04 B60J5/06 B62D25/02 B62D25/04 B62D25/20 (Advanced/Invention); B60J5/04 B60J5/06 B62D25/00 B62D25/04 B62D25/20 (Core/Invention)

International class (IPC 1–7)**:** B60J5/04 B60J5/06 B62D25/02 B62D25/04 B62D25/20

CPC: B60J5/0409 B60J5/0479 B60J5/06 Y10T292/0839 Y10T292/0853 Y10T292/564

European class: B60J5/04B7 B60J5/04H5B B60J5/06 B62D25/02

US class: 292/336 292/36 292/48 296/155 49/217

Classification Explorer

Cited documents: US4413444 A, US4157846 A, US4152872 A, US4110934 A, US4014587 A, US3728819 A, US3697124 A, US3171669 A, US3137518 A, US3011209 A, JP57045420 A2, JP57045419 A2, JP57041209 A2, JP56105079 A2, EP0100455 A1, EP0045139 A1, DE3127998 A1, DE2854204 A1, DE1078454 A,

Forward Citations: WO17162994, US9340234, US8496275, US7520557, US7104588, US7017979, US6955389, US6899374, US6840567, US6827387, US6616214, US6447054, US6382705, US6328374, US6234565, US6213535, US6196618, US6059352, US5782523, US5605363, US5398988, US5117665, US4917412, US4896906, US2015360547, US2009235767, US2006055184, US2006000145, US2005140145, US2005052045, US2004262945, US2004207227, US2004094991, GB2325653, GB2325653, GB2139273, FR3049260, FR2849094, EP2803560, EP2803560, EP0540053, EP0342915, EP0342915, EP0099116, CN104039633, CN104039633, CN103660874,

Abstract:
Source: US4561690A A vehicle body structure which can provide a wider passenger compartment than conventional sedan–type vehicles. The vehicle has a substantially flat floor which provides extra space and a single integral door opening on each side. The door opening is closed by a front swinging door and a rear sliding door. The rear sliding door support mechanism is adapted to allow the floor to be positioned lower than in conventional van–type vehicles. The front swinging door has upper and lower door lock mechanisms for locking the front door when closed. The rear sliding door support mechanism includes upper and lower guide rails which are respectively adapted to reinforce a roof side rail and a side sill comprising part of a vehicle framework to provide sufficient resistance to bending stresses applied to the framework, thus allowing a center–pillarless body structure.

22) Family number: 19217765 (US4504526A) © PatBase

Title: Apparatus and method for producing a laminar flow of constant velocity fluid along a substrate

Priority: CA19840463183 19840914 CA19840463186 19840914 US19830535870 19831223 CA19840463786 19840921 US19830535870 19830926 US19830535798 19830926 WO1984US01460 19840917 US19860858338 19860501 WO1984US01523 19840924 US19830564721 19831223

Family:

Publication number	Publication date	Application number	Application date
AU198433496 A1	19850404	AU19840033496	19840925
AU198434348 A1	19850423	AU19840034348	19840917
AU198434373 A1	19850423	AU19840034373	19840924
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BRPI8404756 A	19850813	BR1984PI04756	19840921
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BRPI8407071 A	19850813	BR1984PI07071	19840924
CA1237860 A1	19880614	CA19840463786	19840921
CA1252369 A1	19890411	CA19840463186	19840914
CA1259090 A1	19890905	CA19840463183	19840914
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DE3485324 D1	19920116	DE19843485324	19840924
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EP0156857 B1	19910130	EP19840903521	19840917
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EP0156882 A4	19880223	EP19840903607	19840924
EP0156882 B1	19911204	EP19840903607	19840924
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ES290957 Y	19870501	ES19840290957U	19841220
ES290957 Y1	19870528	ES19840290957U	19841220
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FR2553083 B1	19911227	FR19840014672	19840925
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GB2147244 B2	19880602	GB19840023656	19840919
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IT1178436 A	19870909	IT19840048896	19840925
IT1178437 A	19870909	IT19840048897	19840925
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IT8448897 A0	19840925	IT19840048897	19840925

IT8449082 A0	19841029	IT19840049082	19841029	
JP2012644 C3	19960202	JP19840503497	19840917	
JP5082475 B4	19931119	JP19840503497	19840917	
JP60104412 A2	19850608	JP19840200319	19840925	
JP60502250 T2	19851226	JP19840503589T	19840924	
JP60502259 T2	19851226	JP19840503497T	19840917	
KR850002559 A	19850515	KR19840005871	19840925	
KR920008768 B1	19921009	KR19850070043	19850516	
KR920008768 B1	19921009	KR19850700043	19840924	
KR930000754 B1	19930201	KR19840005871	19840925	
LU85554 A	19850402	LU19840085554	19840925	
MX162515 A	19910516	MX19840202823	19840925	
MX163164 B	19910926	MX19840203799	19841219	
MX163477 B	19920519	MX19840202824	19840925	
NL192979 B	19980302	NL19840002900	19840921	
NL192979 C	19980703	NL19840002900	19840921	
NL8402900 A	19850416	NL19840002900	19840921	
SE8404788 A	00000000		00000000	
SE8404788 A0	19840925	SE19840004788	19840925	
SE8404788 L	00000000	SE19840004788	19840925	
US4504526 A	19850312	US19830535798	19830926	
US4561625 A	19851231	US19830564721	19831223	
US4839122 A	19890613	US19860858338	19860501	
WO8501468 A1	19850411	WO1984US01523	19840924	
WO8501522 A1	19850411	WO1984US01460	19840917	

Probable Assignee: LOF GLASS INC

Assignee(s):(std)**:** LIBBEY OWENS FORD CO ; LIBBEY OWENS FORD CO TE TOLEDO OHIO VER ST V ; LOF GLASS INC ; TORAINOBA CORP

Assignee(s): WEAVER WILLIAM R ; ALBACH EBERHARD R ; HOFER PETER H ; L O F GLASS INC ; L O F GLASS INC TOLEDO OHIO US ; LIBBEY OWENS FORD COMPANY TE TOLEDO OHIO VER ST V ; LIBBEY OWENS FORD COMPANY ; LIBBEY OWENS FORD CY ; LIBBEY OWENS FORD CO A CORP OF OH ; LIBBEY OWENS FORD COMPANY TE TOLEDO OHIO VER ST V AM ; LIBBEY OWENS FORD CO TE TOLEDO OHIO VER ST V AM

Inventor(s):(std)**:** ALBACH EBERHARD ROBERT ; WEAVER W R ; WR WEAVER ; WILLIAM RAY WEAVER ; WILLIAM R WEAVER ; W R WEAVER ; UIRIAMU REI UIIBAA ; WEAVER WILLIAM R ; OORUBATSUKU EBAAHAADO AARU ; HOOFUAA PIITAA EICHI ; WEAVER WILLIAM RAY ; ALBACH EBERHARDROBERT ; HOFER PETER H ; HOFER H ; ALBACH R ; ALBACH EBERHARD R ; HOFER PETER HANS

Inventor(s): ALBACH R EBERHARD TOLEDO OH 43615 US ; HOFER H PETER PERRYSBURG OH 43551 US ; WEAVER R WILLIAM TOLEDO OH 43614 US ; RAY WEAVER WILLIAM ; EBERHARD ROBERT ALBACH ; PETER HANS HOFER ; WEAVER R

Agent(s): PHILLIPS ORMONDE FITZPATRICK; MACRAE AND CO

Designated states: AT AU BE BR CH DE FR GB JP KR LI LU NL SE

International class(IPC 8–9)**:** B29C33/00 B29C33/12 B29C33/42 B29C39/10 B29C39/12 B29C39/26 B29C45/14 B29C45/26 B29C67/24 B29C70/76 B60J1/00 B60J1/02 B60J1/18 B60J10/00 B60J10/02 C03C17/00 C23C16/00 C23C16/44 C23C16/455 C23C16/54 (Advanced/Invention);
B29C33/12 B29C39/26 B29C45/26 B29C67/24 B29L31/30 B60J1/00 B60J1/02 C23C16/44 C23C16/54 (Advanced/Non–invention);
B29C33/00 B29C33/12 B29C33/42 B29C39/10 B29C39/12 B29C39/26 B29C45/14 B29C45/26 B29C70/00 B60J1/00 B60J1/02 B60J1/18 B60J10/00 B60J10/02 C03C17/00 C23C16/44 C23C16/455 C23C16/54 (Core/Invention);
B29C67/24 C23C16/44 (Core/Non–invention);
B29C (Subclass/Invention)

International class (IPC 1–7): B05C5/02 B05D1/26 B29C1/00 B29C33/00 B29C33/12 B29C33/40 B29C33/42 B29C39/00 B29C39/10 B29C39/12 B29C39/18 B29C39/26 B29C45/14 B29C45/26 B29C5/00 B29C65/70 B29F1/022 B29H9/10 B29L31/30 B29L31:30 B29L33/00 B29L39/10 B29L45/14 B32B B60J1/00 B60J1/02 B60J1/10 B60J1/18 B60J10/02 C03B C03C17/00 C03C21/0 C03C21/00 C03C27/00 C09K3/10 C23C11/00 C23C13/00 C23C13/10 C23C16/00 C23C16/40 C23C16/44 C23C16/54 C23C22/77 C23F E06B3/54 E06B3/58 E06B3/62

CPC: C03C17/002 C23C16/45504 C23C16/45582 C23C16/45585 C23C16/45591 C23C16/45595 Y10S264/83 B60J10/265 B60J10/30 B60J10/70 B29C45/14434 B29C67/246 B29C70/763 B29K2063/00 B29K2067/00 B29K2075/00 B29K2077/00 B29K2709/08 B29L2031/265 B29L2031/778 B29C33/0044

European class: B29C33/00E2 B29C45/14F8 B29C70/76A B60J10/00D7B B60J10/00G B60J10/02 C03C17/00B2 C23C16/455 C23C16/455A2 C23C16/455M C23C16/455N C23C16/455P4 C23C16/455T L29C67/24D L29K63/00 L29K67/00 L29K709/08 L29K75/00 L29K77/00 L29L31/26B L29L31/778 M23C16/44E22 M23C16/44E24 M23C16/44E2B M23C16/44E32

US class: 118/718 118/719 249/160 249/85 264/129 264/135 264/252 264/275 264/279 264/328.6 264/331.19 264/40.1 264/40.4 264/40.5 264/40.6 264/DIG.83 425/116 425/127 425/129.1 425/542 425/543 427/248.1 427/255 427/255.19

Classification Explorer

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Forward Citations: WO9805487, WO9747456, WO9614979, WO9420721, WO9012943, WO8901398, WO8900101, WO8804985, WO8704973, WO13016369, WO11134617, WO10087973, WO10083027, WO08077042, WO08051903, WO08051903, WO08043531, WO07002328, WO03061998, WO02083588, WO02066277, WO0067915, WO0046055, WO0046055, WO0021684, WO0010733, WO0010733, WO0006512, WO0006512, USRE37395, US9783115, US9783114, US9758102, US9694753, US9694749, US9694659, US9688128, US9557584, US9545883, US9487144, US9481306, US9454054, US9376061, US9352623, US9352491, US9341914, US9327299, US9315151, US9278654, US9221399, US9193880, US9162552, US9128345, US9090211, US9076901, US9073491, US9057925, US9045091, US9019091, US9014966, US8992199, US8908039, US8891154, US8884788, US8842176, US8833987, US8797627, US8790562, US8779910, US8727547, US8723950, US8705161, US8676491, US8668989, US8654433, US8653959, US8610992, US8608327, US8577549, US8559093, US8543330, US8525703, US8511841, US8508384, US8508383, US8506096, US8503062, US8465163, US8465162, US8462204, US8427288, US8400704, US8393668, US8379289, US8355839, US8345345, US8335032, US8325055, US8325028, US8322073, US8309907, US8294975, US8288711, US8282253, US8282226, US8277059, US8273801, US8271187, US8267559, US8235452, US8228588, US8194133, US8179586, US8179236, US8177376, US8170748, US8168019, US8164817, US8162493, US8147974, US8142705, US8134117, US8121787, US8106347, US8101043, US8100568, US8095260, US8094002, US8083386, US8080609, US8080299, US8076224, US8068331, US8063753, US8049640, US8048529, US8047667, US8033597, US8019505, US8000894, US7994471, US7968201, US7956151, US7955702, US7955696, US7939161, US7926960, US7918570, US7916009, US7914188, US7906756, US7898719, US7898398, US7888629, US7884995, US7871169, US7864399, US7859737, US7838115, US7832882, US7826123, US7815326, US7786183, US7781493, US7771061, US7754128, US7674713, US7643200, US7637554, US7635647, US7589883, US7588652, US7572017, US7543947, US7523524, US7494231, US7490007, US7474963, US7404884, US7360338, US7349144, US7332225, US7314590, US7202987, US7063378, US7025405, US7004592, US6954300, US6929765, US6899935, US6890468, US6855431, US6803001, US6787085, US6746556, US6730258, US6638046, US6513854, US6474970, US6461137, US6420036, US6401399, US6398396, US6395371, US6393768, US6287406, US6276064, US6241304, US6235166, US6223497, US6214261, US6179940, US6154306, US6148563, US6143209, US6134851, US6123535, US6120720, US6120274, US6106931, US6103015, US6022063,

US6002511, US5985184, US5916600, US5910854, US5895170, US5864996, US5858458, US5851470, US5846463, US5807515, US5799450, US5770674, US5724187, US5707473, US5679382, US5676898, US5676381, US5668663, US5665397, US5620648, US5620635, US5611966, US5547359, US5544458, US5519979, US5505023, US5500760, US5475956, US5454706, US5447446, US5437131, US5424865, US5421940, US5413748, US5395578, US5391336, US5385755, US5384995, US5332541, US5268183, US5243785, US5240668, US5239405, US5236650, US5234653, US5233461, US5219382, US5197243, US5196210, US5171508, US5108687, US5095669, US5069852, US5069835, US5068076, US5065545, US5061429, US5057265, US5035096, US4994301, US4951927, US4938521, US4915395, US4894972, US4861540, US4858988, US4854599, US4849260, US4832785, US4826417, US4795667, US4761916, US4755339, US4737335, US4732553, US4702873, US4700525, US4688752, US4648832, US2015224677, US2012112383, US2011304727, US2011272859, US2011220269, US2011207301, US2011115127, US2011045123, US2011018303, US2010316828, US2010194151, US2010144130, US2010105829, US2010065219, US2010063196, US2009155619, US2009017312, US2008319133, US2008311729, US2008268261, US2008237045, US2008213545, US2008153268, US2008152926, US2008145564, US2008102237, US2008094684, US2008044512, US2007151178, US2007063451, US2006287408, US2006260204, US2006157890, US2006125714, US2005269741, US2005083577, US2005079326, US2004261933, US2004214947, US2004211668, US2004209087, US2004104166, US2004035451, JP62255219, JP62163118, JP62068992, JP61089117, JP6094760, JP5264718, JP5192373, JP3085214, JP2254012, JP2175118, JP2009541196, JP2008544070, GB2319282, GB2290822, GB2290822, GB2255523, GB2255523, GB2245861, GB2200159, GB2200159, GB2164080, FR2769896, FR2627721, FR2620966, FR2608668, EP2866998, EP2521621, EP2521621, EP1645391, EP1495891, EP1447253, EP1238786, EP1066545, EP1057606, EP1036686, EP0911276, EP0907485, EP0892209, EP0892209, EP0468713, EP0449347, EP0368817, EP0333538, EP0312496, EP0309325, EP0307317, EP0296213, EP0252123, EP0204348, EP0173907, DE4234810, DE4234810, DE4039077, DE3742881, DE3728440, DE3714176, DE19703542, DE19703270, DE19703269, DE10337460, DE102015104902, DE102007024359, CZ297173, CN104561938, CN104487225, CN104451601, CN103057384, CN103057384, CN102700096, AU749537, AU610635, AU604977, AU601594, AU595977,

Abstract:
Source: US4504526A The present invention relates to an apparatus and method for directing a constant velocity laminar flow of a fluid along a surface of a planar substrate. The apparatus comprises a plurality of serially arranged, individual passageways interconnecting an inlet and an outlet. The inlet is adapted to be connected to a supply of fluid, while the outlet is positioned adjacent the surface of the substrate for directing the uniform laminar flow of fluid onto the substrate surface. The individual passageways are adapted to vary the velocity of the fluid as it passes through the passageways to ensure that a laminar flow of constant velocity is produced along the surface of the substrate. In the preferred embodiment of the invention, the apparatus is utilized to apply a metal oxide coating to a sheet of moving glass. In these instances, the outlet is an elongate nozzle extending transversely relative to the path of the moving glass to enable a gaseous reactant utilized to form the metal oxide coating to be applied across the entire width of the glass sheet. In one embodiment of the invention, the individual passageways are alternating converging and diverging passageways which function to evenly distribute the fluid within the passageways such that the fluid exits the elongate outlet at a relatively constant velocity to produce a uniform laminar flow of the gaseous reactant across the glass sheet.

0) DE3628377C1 – SEALING ARRANGEMENT

23) Family number: 4501713 (DE3628377C1) © PatBase

Title: Sealing arrangement

Priority: DE19863628377 19860821

Family:

Publication number	Publication date	Application number	Application date
DE3628377 C1	19870619	DE19863628377	19860821

Probable Assignee: DAIMLER BENZ AG

Assignee(s):(std)**:** DAIMLER BENZ AG

Assignee(s): DAIMLER BENZ AG 7000 STUTTGART DE

Inventor(s):(std)**:** KIRSCH HANS ; WEISSE JOACHIM ; WULFF DIETRICH DIPL ING

Inventor(s): WULFF DIETRICH DIPL ING FH 7031 AIDLINGEN DE ; WEISSE JOACHIM 7033 HERRENBERG DE ; KIRSCH HANS 7273 EBHAUSEN DE

International class (IPC 8–9): B60J5/00 F16J15/54 (Advanced/Invention) ; B60J5/00 F16J15/00 (Core/Invention)

International class (IPC 1–7): B04B9/12 B60J5/00 E05F11/38 F16J15/54

CPC: B60J5/00 F16J15/54

European class: B60J5/00 F16J15/54

Classification Explorer

Forward Citations: DE19712847, DE19712847,

Abstract:
Source: DE3628377C1 The invention relates to a sealing arrangement for the passage of a rotatably mounted shaft through an associated opening in a sealing film stretched out in a transverse plane. In order to allow reliable sealing between the shaft and the sealing film, it is envisaged according to the invention that an elastomer cup packing be arranged on one side of the sealing film and a cup–shaped supporting housing be arranged on the other side of the sealing film, these likewise being penetrated by the shaft and being supported axially, that the cup packing rest flat, with an end face facing the sealing film, on a sealing–film surface adjoining the opening, that the supporting housing rest with a narrow end face of an axially projecting encircling rim on an opposite surface of the sealing film, that an associated circumferential portion of the shaft be surrounded, with radial sealing, by the cup packing, and that the sealing film be clamped between the rim of the supporting housing and the end face of the cup packing in such a way that the cup packing is prevented from rotating with the shaft.

0) US4829633A – VEHICLE DOOR HINGE

24) Family number: 17734413 (US4829633A) © PatBase

Title: VEHICLE DOOR HINGE

Priority: DE19860027459U 19861015 DE19873765516 19870710 EP19870109980 19870710

Family:

Publication number	Publication date	Application number	Application date
DE3765516 D1	19901115	DE19873765516	19870710
DE8627459 U1	19871119	DE19860027459U	19861015
EP0266490 A1	19880511	EP19870109980	19870710
EP0266490 B1	19901010	EP19870109980	19870710
JP63107673 A2	19880512	JP19870260765	19871015
US4829633 A	19890516	US19870094446	19870909

Probable Assignee: LUNKE AND SOHN GMBH DORTMUNDER STR 54 IN 5810 WITTEN WEST GERMANY

Assignee(s):(std)**:** LUNKE AND SOHN AKTIENGESELLSCHAF ; LUNKE AND SOHN GMBH ; RUNKE AND ZOON GMBH

Assignee(s): LUNKE AND SOHN GMBH DORTMUNDER STR 54 IN 5810 WITT ; LUNKE AND SOHN GMBH DORTMUNDER STR 54 IN 5810 WITTEN WEST GERMANY ; LUNKE AND SOHN AG ; LUNKE AND SOHN GMBH 5810 WITTEN DE ; LUNKE AND SOHN AKTIENGESELLSCHAFT

Inventor(s):(std)**:** KASSNER PETER ; KASSNER PETER DR ING ; PIITAA KASUNAA ; STENDER HANS WERNER

Inventor(s): STENDER HANS WERNER D 4630 BOCHUM DE ; KASSNER DR ING PETER

Designated states: DE ES FR GB IT

International class (IPC 8–9)**:** B60J5/04 E05D11/10 (Advanced/Invention); B60J5/04 E05D11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B60J5/04 E05C17/00 E05D11/10 E05D7/086

CPC: Y10T16/533 Y10T16/54021 Y10T16/540257 Y10T16/54028 Y10T16/540345 Y10T16/625 E05D11/1085 E05D2011/1035 E05Y2900/531

European class: E05D11/10E4A P05D11/10E1 P05Y900/531

US class: 16/250 16/322 16/332 16/334 16/340 16/85 296/202

Classification Explorer

Cited documents: US4117567 A, US3028619 A, US2635281 A, US1612237 A, GB170363 A, DE647896 A, DE3401252 A1,

Forward Citations: WO9920865, WO9823835, WO9015728, WO08059680, WO0014371, WO0008283, WO0008283, WO0008283, US9555741, US8555465, US8438703, US8424247, US8136204, US7353569, US7219393, US7103938, US6845546, US6789976, US6684455, US6607236, US6601268, US6568032, US6532627, US6481056, US6477738, US6457207, US6446305, US6349916, US6286968, US6282752, US6256837, US6092778, US6092334, US6073309, US6038739, US6029314, US6000098, US5920960, US5913350, US5887317, US5878463, US5772351, US5598607, US5586363, US5311644, US5269047, US5239731, US5208944, US5173993, US5143468, US5107402, US5008976, US2017106799, US2015305951, US2011107677, US2009300880, US2006126282, US2005125950, US2005117284, US2005005399, US2004187260, US2004139579, US2004105719, US2003159243, US2003156891, US2002112319, JP5087155, JP4734283, JP2011149276, JP2008144569, FR2648761, EP2088020, EP2088020, EP0931897, EP0897044, EP0807738, EP0458454, EP0445559, DE29815747, DE29712454, DE19734841, DE19727098, DE19727098,

Abstract:
Source: US4829633A A door hinge for a vehicle door is provided with an integrated door check. One hinge member carries on its one end face a profile in the form of depressions, in which are inserted the retaining elements, e.g. in the form of balls, for a temporary arresting in predetermined positions. The balls are pressed

down by a set of cup springs via a pressure plate or a ball bearing, so that there is a rolling movement of the retaining elements on the profile faces and on the pressure plate or ball bearing. The door check integrated into the door hinge is adjustable and/or readjustable with respect to its arresting force.

0) BRPI8602482A – APERFEICOAMENTO EM MOTO REDUTOR DE CORRENTE CON...

25) Family number: 191715 (BRPI8602482A) © PatBase

Title: APERFEICOAMENTO EM MOTO REDUTOR DE CORRENTE CONTINUA PARA VIDRO ELETRICO PROGRESS IN CURRENT REDUCER BIKE FOR ELECTRIC GLASS (Machine translation)

Priority: BR1986PI02482 19860522

Family:

Publication number	Publication date	Application number	Application date
BRPI8602482 A	19871229	BR1986PI02482	19860522

Probable Assignee: ESTATROM IND E COMERCIO LTDA

Assignee(s):(std)**:** ESTATROM IND E COMERCIO LTDA

Assignee(s): ESTATROM INDUSTRIA E COMERCIO LTDA

Inventor(s):(std)**:** SANTORO JOSE MIGUEL APARECIDO ; TOMA PAULO SHIHARU

Inventor(s): JOSE MIGUEL APARECIDO SANTORO ; PAULO SHIHARU TOMA

International class (IPC 8–9): B60J1/17 (Advanced/Invention); B60J1/17 (Core/Invention)

International class (IPC 1–7): B60J1/17

Classification Explorer

Abstract:
Source: BRPI8602482A RESUMO Patente de Invencao para VPER – FEICOAMENTO EM MOTO REDUTOR DE CORRENTE CONTINUA PARA VI DRO ELETRICO", que podera ser adaptado, facilmente, em qualquer auto veiculo nacional ou importado, tanto na 1 porta esquerda como na direita e que em virtude dos aper feicoamentos que nele foram introduzidos e mais resisten te e duravel e, consequentemente, vem superar as desvan– tagens e inconvenientes encontrados nos convencionais. E de facil instalacao, podendo ser adaptado em qualquer ti po de veiculo, nacional ou importado, tanto na porta di– reita como na esquerda. E dotado de sistema de seguranca (12) que permite a interrupcao da corrente eletrica quan do houver um super aquecimento do motor; a–carcaca do mo tor e achatada para reduzir o espaco ocupado na instala– cao do moto redutor? possui ainda amortecedores de vibra cao (18) para evitar que sejam transmitidas as vibracoes ao moto redutor e visam reduzir o ruido do mesmo; inclui ainda amortecedor de impacto (30) acoplado a passagem de forca para permitir o funcionamento uniforme do motor 1 evitando desgastes das partes mecanicas do mesmo, nrolon gando, consequentemente, a sua duracao; os pontos de fi– xacao (5, 35 e 36) sao dispostos dimensionalmente de for ma a permitir a adaptacao em qualquer tipo de veiculo e a tomada de forca motriz e transversal ao eixo e de aces so de ambos os lados do motor. SUMMARY of Invention Patent for VPER FEICOAMENTO BIKE–CURRENT REDUCTION CONTINUES to SAW DRO ", which REDUCE could be adapted easily on any national or imported auto vehicle, both in 1 door left as on the right and that in virtue of aper feicoamentos that were introduced and more you resisten and durable and therefore comes to overcome the handicaps and advantages and disadvantages found in conventional. And easy installation, and can be adapted in any you po of national or imported vehicle, both in door di–reita as on the left. And with security system (12) that enables the interruption of electric current when there is no overheating of the engine; the–skeleton of the mo tor and flattened to reduce the space occupied in the install–cao of the moto reducer? has vibrating dampers cao (18) to prevent them from being transmitted the jerking to back geared motor and to reduce the noise; includes shock absorber (30) bound to gallows ticket to allow the operation of motor 1 avoiding wear of mechanical parts, nrolon gando, consequently, its duration; the points of fi–xacao (5, 35 and 36) are prepared for dimensional ma to allow adjustment in any type of vehicle and engine and transverse to the gallows and axis of aces OS on both sides of the engine.

0) DE3740988A1 – SUSPENSION OF A SUPPORTING HOOK EINHAENGUNG EIN...

26) Family number: 7031274 (DE3740988A1) © PatBase

Title: Suspension of a supporting hook

Priority: DE19873740988 19871203

Family:

Publication number	Publication date	Application number	Application date
DE3740988 A1	19881215	DE19873740988	19871203

Probable Assignee: DAIMLER BENZ AG

Assignee(s):(std)**:** DAIMLER BENZ AG

Inventor(s):(std)**:** ECKERT DIETER ; KLING GUENTER ; WALDHAUSER FRANZ

International class (IPC 8–9)**:** B60R13/02 B60R13/07 F16B5/07 (Advanced/Invention); B60R13/00 B60R13/02 F16B5/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B60R11/00 B60R13/02 F16B5/07

CPC: B60R13/0206 B60R13/07 F16B5/07

European class: B60R13/02B B60R13/07 F16B5/07

Classification Explorer

Cited documents: US2454066 A, FR2239098 A5, DE3441350 C1,

Forward Citations: EP2006134, DE4222102, DE202016102799, DE102011053425, DE102011053393,

Abstract:
Source: DE3740988A1 The invention relates to suspension of a supporting hook so that it hangs into a vehicle body side which delimits a humid chamber, in the case of which the supporting hook can be partly inserted through a hooking–in aperture which is cut out of the body side and can be transferred, in the course of a backwardly directed feed movement while suspended, into a supporting position which grips from behind a hooking–in edge of the body side. In order to prevent the emergence of water through the hooking–in aperture, provision is made for a section, which is situated above the hooking–in edge, of the body side opposite the hooking–in edge to be offset in the direction of the depth of the humid chamber in such a way that water running down the humid chamber side of the body side above the hooking–in aperture is diverted downwards around the hooking–in edge and the suspended supporting hook.

0) US4932712A – SIDE BODY SECTION FOR MOTOR VEHICLES

27) Family number: 3475343 (US4932712A) © PatBase

Title: SIDE BODY SECTION FOR MOTOR VEHICLES

Priority: DE19873737736 19871106

Family:

Publication number	Publication date	Application number	Application date
DE3737736 A1	19890524	DE19873737736	19871106
DE3737736 C2	19930722	DE19873737736	19871106
JP1148670 A2	19890612	JP19880274660	19881101
US4932712 A	19900612	US19880268261	19881107

Probable Assignee: DAIMLER BENZ AG

Assignee(s):(std)**:** DAIMLER BENZ AG

Assignee(s): DAIMLER BENZ AKTIENGESELLSCHAFT ; DAIMLER BENZ AKTIENGESELLSCHAFT 7000 STUTTGART DE ; DAIMLER BENZ 7000 STUTTGART DE AG

Inventor(s):(std)**:** TOMFORDE JOHANN ; TOMFORDE JOHANN DIPL ING ; YOOHAN TOMUFUORUDE

International class (IPC 8–9): B60J1/17 B60J10/00 B60J10/06 B60R13/00 B62D25/04 (Advanced/Invention); B60J1/17 B60J10/00 B60J10/02 B60R13/00 B62D25/04 (Core/Invention)

International class (IPC 1–7): B60J1/08 B60J1/17 B60J10/06 B60J5/00 B60R13/02 B62D25/04

CPC: B60J10/24 B60J10/248 B60J10/76 B60J10/79 B60J10/84 B60J10/86 B60R13/00

European class: B60J10/00D5 B60J10/00D5E B60J10/04D B60J10/06 B60J10/08B B60J10/08C B60R13/00

US class: 296/146 296/146.3 296/146.9 296/152 296/201 296/202 49/502

Classification Explorer

Cited documents: US4688847 A, US4591204 A, JP59206262 A2, JP59079471 B4, JP53064415 B4, EP0099451 A1, DE3444898 A1, DE3313658 A1, DE3119595 A1, DE1743111 U, DE1743111 A1,

Forward Citations: WO16007815, US8650802, US7871120, US7243983, US6416113, US5804018, US5614051, US5609385, US5443673, US5440849, US5331784, US5092078, US2016121701, US2012025564, US2009100762, US2006186705, EP0529815, EP0369798, DE19800075, DE19800075, DE10344123, DE10344123, DE102004036072,

Abstract:
Source: US4932712A A side body section for motor vehicles is disclosed in a whole surface flush side glazing unit where even the region of the center column is covered by a transparent shield. In the side body section according to the invention, a transparent shield is fastened to a door frame which is prolonged by the width of the center column. This produces only one separating line between the two side doors. The glass or synthetic glass shield is arranged in the plane of the side windows. In the region of the shield, the door frame has recesses which permit the fastening of receiver units for locking systems or the like to the inside of the shield.

0) US4848823A – REMOTE CONTROL POWER–ASSISTED VEHICLE COVER

28) Family number: 18903678 (US4848823A) © PatBase

Title: Remote control power–assisted vehicle cover

Priority: US19870106816 19871013 US19880261037 19881116 WO1990US06311 19901031 WO1989US05111 19891114 US19890430486 19891101

Family:

Publication number	Publication date	Application number	Application date
AU198946626 A1	19900612	AU19890046626	19891114
AU199169527 A1	19910531	AU19910069527	19901031
DE8915549 U1	19901220	DE19890015549U	19891114
EP0426769 A1	19910515	EP19900901187	19891114
EP0426769 A4	19910710	EP19900901187	19891114
ES2017359 AF	19910116	ES19890003908	19891116
JP3502316 T2	19910530	JP19900501229T	19891114
US4848823 A	19890718	US19870106816	19871013
US5176421 A	19930105	US19890430486	19891101
WO9005648 A1	19900531	WO1989US05111	19891114
WO9106443 A1	19910516	WO1990US06311	19901031

Probable Assignee: ENTRETEC INC

Assignee(s):(std): ENTRETEC INC

Assignee(s): ENTRETEC INC A CA CORP ; ENTRETEC INC A CORP OF CA ; ENTRETEC INC PITTSBURGH PA US

Inventor(s):(std): FASISKA EDWARD J ; FLOHR ARNO K ; FLOHR ARNO K C O URSULA PIPES ; FLOHR ARNO KARL ; EDWARD J FASISKA ; ARNO K FLOHR

Agent(s): MADDERNS

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR IT JP KR LI LU MC NL NO SE SU

International class (IPC 8–9): B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7): B60J11/00 B60J7/06 B60J7/20 G08C19/00

CPC: B60J11/02

European class: B60J11/02

US class: 150/166 160/310 293/117 296/136.02 296/136.03 296/98 340/12.5 340/825.69

Classification Explorer

Cited documents: US4858985 A, US4856842 A, US4848823 A, US4834446 A, US4795207 A, US4720135 A, US4718711 A, US4657298 A, US4596418 A, US4589459 A, US4519644 A, US4432581 A, US4324427 A, US4274077 A, US4174134 A, US3992053 A, US3292684 A, US3222102 A, US2811321 A, US2688513 A, US1999171 A, US1912231 A, US1719055 A, US1238642 A, GB811313 A, FR2585299 A1, FR2524398 A1, FR1074987 A, DE3245017 A1, DE3043592 A1,

Forward Citations: WO9801314, WO9616829, WO14128413, WO10139274, WO08139258, WO08061433, WO07099384, WO07095409, WO05062711, WO05062711, USD800047, USD775017, USD698514, USD692634, USD566033, USD432979, US9776465, US9745797, US9725952, US9725948, US9701185, US9611690, US9610834, US9428039, US9358942, US9091118, US8967172, US8960260, US8608223, US8490668, US8087443, US7967366, US7654045, US7621581, US7559165, US7478862, US7464982, US7438299, US7338100, US7281752, US7213868, US7205946, US7185920, US7008002, US6981509, US6966152, US6964446, US6916043, US6896312, US6830119, US6739095, US6663156, US6641203, US6581231, US6547313, US6513858, US6502889, US6476778, US6393806, US6371547, US6263648, US6206448, US6203095, US6131643, US6100500, US6092857, US6089645, US6059105, US6056347, US6017078, US5954388, US5954200,

US5941594, US5902003, US5823607, US5628542, US5597196, US5588511, US5542733, US5518283, US5516181, US5511845, US5490707, US5409286, US5303972, US5176421, US5027990, US2016358448, US2016200180, US2016193905, US2013068488, US2010224124, US2010083587, US2010059095, US2009288891, US2009183809, US2009056780, US2009013610, US2009008042, US2008229638, US2008036233, US2008023982, US2007216193, US2007096501, US2007029827, US2006289131, US2006284445, US2006232095, US2006090405, US2005212322, US2005206188, US2005179283, US2005127710, US2005055886, US2004261325, US2004217622, US2004178618, US2004178117, US2004164540, US2004017072, GB2450500, GB2448731, GB2448731, GB2287441, FR3002496, EP1944183, EP1316455, EP0876931, EP0876931, EP0493582, EP0426769, DE102009047824, DE102009047824,

Abstract:
Source: US4848823A A remotely controlled power−assisted vehicle cover is attached to a take−up spool winding and unwinding mechanism which is housed in an eccentric−shaped containment tube, mounted under the front or back bumper areas of a vehicle. The vehicle cover is extracted from the cylindrical cover containment tube and placed over a vehicle by a wand fastened to the l eading edge of the vehicle cover and houses a wireless control system including a remote motor control and a transmitter to send: on/off, single or variable speed, and reversing controls to the drive motor of the cover extracting/retracting mechanism. In addition to controlling the co ver drive motor, the control wand is used to physically guide the protective cover on or off the vehicle. The control wand can easily be operated with one hand and enables precise control of the power−assisted application or removal of the vehicle cover. The cover application operation is done so quickly that a blanket of air is trapped between the cover and the vehicle and helps the cover slide freely over the surface of the vehicle.

0) US4907835A – PORTABLE ARM REST APPARATUS

29) Family number: 3367763 (US4907835A) © PatBase

Title: Portable arm rest apparatus

Priority: US19880229347 19880808

Family:

Publication number	Publication date	Application number	Application date
US4907835 A	19900313	US19880229347	19880808

Probable Assignee: SALTERS CHARLES

Assignee(s):(std)**:** SALTERS CHARLES

Inventor(s):(std)**:** SALTERS CHARLES

International class (IPC 8–9)**:** B60N2/46 (Advanced/Invention); B60N2/46 (Core/Invention)

International class (IPC 1–7)**:** B60J9/00

CPC: B60N2/4673

European class: B60N2/46G

US class: 248/118 296/1.09 296/1.1 296/153 297/411 297/411.21 297/411.36

Classification Explorer

Cited documents: US3985924 A, US3310339 A, US3072784 A, US2979605 A, US2965751 A, US2793286 A, US2693332 A, AT71675 B,

Forward Citations: US9663962, US9441392, US8998301, US8857499, US8627873, US8616614, US8371360, US8162274, US8066051, US7836880, US7810771, US7810767, US7658219, US7533712, US7503373, US7387342, US7261140, US7108040, US7073758, US7014269, US6953076, US6942004, US6923487, US6905163, US6871721, US6736357, US6729691, US6508295, US6321823, US5984415, US5892499, US5765919, US5346282, US5131614, US2013270865, US2012193964, US2010301000, US2010108849, US2009071614, US2008006374, US2007277817, US2006272785, US2006163933, US2005284591, US2005269142, US2005247414, US2005151388, US2004245038, US2004200585, US2004100122, US2004065799, US2004031892, US2003070773, CN102627081, CN102627081,

Abstract:
Source: US4907835A A removable arm rest apparatus for use in a truck cab utilizes an upright tubing structure and a flat arm support member projecting normally outward therefrom. Compressive mounting means enclosed within the uppermost end of the tubing structure position the tubing structure firmly between the cab roof and cab floor. A washer encircling the tubing structure positions the arm support member at the desired location. Movement of the washer along the longitudinal axis of the tubing structure adjusts the height of the arm support member relative to the cab floor. The apparatus may be easily removed and disassembled for storage and subsequent use in another truck cab.

0) US5007201A – DOOR CONSTRUCTION

30) Family number: 4534171 (US5007201A) © PatBase

Title: Door construction

Priority: US19900504390 19900404

Family:

Publication number	Publication date	Application number	Application date
US5007201 A	19910416	US19900504390	19900404

Probable Assignee: EXCEL IND

Assignee(s):(std)**:** EXCEL IND

Assignee(s): EXCEL INDUSTRIES INC

Inventor(s):(std)**:** D HOORE TERENCE P ; SMITH MARK L

International class (IPC 8–9)**:** B60J1/17 B60J5/04 (Advanced/Invention); B60J1/17 B60J5/04 (Core/Invention)

International class (IPC 1–7)**:** E05F11/38

CPC: B60J1/17 B60J5/0402

European class: B60J1/17 B60J5/04B2

US class: 49/348 49/349 49/502

Classification Explorer

Cited documents: US4761915 A, US4648208 A, US4306381 A, US2236450 A, US1754623 A, US1595499 A,

Forward Citations: US9126474, US9032669, US8668989, US8322073, US8048529, US7219949, US7152373, US7097742, US6959957, US6425207, US6128861, US2015151614, US2013219794, US2009160220, US2004221512, US2004216387, US2004189051, FR2741376,

Abstract:
Source: US5007201A A vehicle door construction which includes a door frame which defines integral longitudinal screw grooves for seating fasteners used to mount cross braces to which the window regulator assembly is mounted. The frame may also include a lower recess to collect debris and an outer channel to allow fasteners mounting a window guide brace to be countersunk for easier mounting of the door frame in the vehicle. The frame may also include a removable insert which defines the window slide channel to allow rapid replacement of a broken window.

0) US5069499A – MOTOR VEHICLE HATCHBACK AND A METHOD FOR PRODUC...

31) Family number: 4860843 (US5069499A) © PatBase

Title: Motor vehicle hatchback and a method for producing same

Priority: DE19893938476 19891120 DE19905002926 19900827

Family:

Publication number	Publication date	Application number	Application date
DE3938476 A1	19910523	DE19893938476	19891120
DE59002926 D1	19931104	DE19905002926	19900827
EP0428837 A2	19910529	EP19900116345	19900827
EP0428837 A3	19910731	EP19900116345	19900827
EP0428837 B1	19930929	EP19900116345	19900827
ES2044350 T3	19940101	ES19900116345T	19900827
US5069499 A	19911203	US19900611655	19901113

Probable Assignee: PORSCHE AG

Assignee(s):(std)**:** PORSCHE AG

Assignee(s): DR ING HCF PORSCHE AG ; DR ING H C F PORSCHE AG ; DR ING H C F PORSCHE AG 7000 STUTTGART DE ; DR ING H C F PORSCHE AG 70435 STUTTGART DE ; DR ING H C F PORSCHE AKTIENGESELLSCHAFT

Inventor(s):(std)**:** BURST HERMANN ; BURST HERMANN DIPL ING ; GOESSE AUGUST WILHELM ; GOESSE AUGUST WILHELM DIPL ING ; GOSSE AUGUST WILHELM DIPL ING ; HOETZER GEORG ; HOTZER GEORG ; SCAEDLICH GUENTER ; SCHADLICH GUNTER ; SCHAEDLICH GUENTER ; HOETZER GEORG HOETZER GEORG

Inventor(s): HOETZER GEORG HOETZER GEORG D 7141 SCHWIEBERDINGEN ; SCHAEDLICH GUENTER 7252 WEIL DER STADT DE ; SCHAEDLICH GUENTER D 7252 WEIL DER STADT 2 DE ; HOETZER GEORG 7141 SCHWIEBERDINGEN DE ; GOSSE AUGUST WILHELM DIPL ING FH ; GOESSE AUGUST WILHELM DIPL ING FH ; GOESSE AUGUST WILHELM DIPL ING FH D 7251 MOENSHEIM ; GOESSE AUGUST WILHELM 7251 MOENSHEIM DE ; BURST HERMANN DIPL ING D 7255 RUTESHEIM DE ; BURST HERMANN 7255 RUTESHEIM DE

Designated states: DE ES FR GB IT NL

International class(IPC 8–9)**:** B60J5/10 B62D35/00 (Advanced/Invention); B60J5/10 B62D35/00 (Core/Invention)

International class(IPC 1–7)**:** B60J1/02 B60J1/04 B60J5/10 B62D25/10 B62D35/0 B62D37/02

CPC: B60J5/101 B62D35/007

European class: B60J5/10 B60J5/10C B62D35/00D

US class: 296/146 296/146.2 296/146.8 296/180.1 296/201 296/93

Classification Explorer

Cited documents: WO8804985 A1, US4139234 A, JP63297009 A2, JP63045012 A2, GB2192023 A1, GB2092655 A1, EP0368817 A2, EP0122545 A2, DE7814079 U,

Forward Citations: US6227612, US6000747, EP2020321, DE102007035509,

Abstract:
Source: US5069499A Hatchback for a motor vehicle comprises a bordering frame which is glued together with and surrounds at least in part an edge area of a window. The bordering frame, at least in a partial area of its circumferential course, has a covering part resting on the exterior side of the window and on the bordering frame. In order to provide such a hatchback which has a simple construction, can be manufactured fast and at low cost, and reliably meets the requirements with respect to tightness, a method of manufacture forms the covering part by direct foaming around the bordering frame and of an edge area of the window.

0) US5492387A – AUTOMOBILE WINDSHIELD MOLDING

32) Family number: 29245194 (US5492387A) © PatBase

Title: AUTOMOBILE WINDSHIELD MOLDING

Priority: JP19910076858 19910315 JP19910126895 19910430 JP19920022079 19920110 US19920850831 19920313 US19940219421 19940329 US19950488366 19950607

Family:

Publication number	Publication date	Application number	Application date
EP0511871 A1	19921104	EP19920303946	19920430
EP0511871 B1	19980812	EP19920303946	19920430
JP2762173 B2	19980604	JP19910076858	19910315
JP3065156 B2	20000712	JP19920022079	19920110
JP3153267 B2	20010403	JP19910126895	19910430
JP4287713 A2	19921013	JP19910076858	19910315
JP4328019 A2	19921117	JP19910126895	19910430
JP5185832 A2	19930727	JP19920022079	19920110
US5492387 A	19960220	US19940219421	19940329
US5628948 A	19970513	US19950488366	19950607

Probable Assignee: TOKAI KOGYO KABUSHIKI KAISHA

Assignee(s):(std)**:** TOKAI KOGYO CO LTD

Assignee(s): TOKAI KOGYO KABUSHIKI KAISHA ; TOKAI KOGYO KK

Inventor(s):(std)**:** HIROSE TOSHIO ; YADA YUKIHIKO

Designated states: FR GB

International class (IPC 8–9)**:** B29C47/00 B29C47/02 B29C47/12 B29D99/00 B60J1/02 B60J1/20 B60J10/00 B60J10/02 B60R13/04 (Advanced/Invention); B29L31/30 (Advanced/Non–invention); B29C47/00 B29C47/02 B29C47/12 B29D99/00 B60J1/02 B60J1/20 B60J10/00 B60J10/02 B60R13/04 (Core/Invention)

International class (IPC 1–7)**:** B29C47/00 B29C47/02 B29C47/12 B29C47/16 B29L31/30 B60J1/02 B60J1/20 B60J10/02 B60R13/04

CPC: B60J10/18 B60J10/21 B60J10/22 B60J10/25 B60J10/70 B29C47/12 B60J1/2002 B29D99/0053 B29C47/003 B29C47/124 B29L2031/26

European class: B29C47/12 B29C47/12C B29D99/00K B60J1/20A B60J10/00C4 B60J10/00D1 B60J10/00D2 B60J10/00D6 B60J10/02 L29L31/26

US class: 156/244.18 156/244.25 264/146 264/167 264/171.17 264/173.17 264/177.16 264/177.2 296/93 52/204.597

Classification Explorer

Cited documents: US5474729 A, US5433808 A, US5348364 A, US5332541 A, US5193876 A, US5190338 A, US5167893 A, US5139302 A, US5114206 A, US5061335 A, US5009460 A, US4884380 A, US4861530 A, US4851067 A, US4830898 A, JP63291721 A2, JP63008020 A2, JP62289427 A2, JP62283017 A2, JP62231814 A2, JP61167521 A2, JP3086621 A2, JP1269613 A2, JP1269612 A2, JP1269611 A2, JP1244820 A2, JP1244820, JP1195032 A2, FR2579927 A1, EP0423407 A1,

Forward Citations: USRE37737, US9493061, US7472947, US7210729, US6409244, US6311450, US6196615, US6095586, US5952013, US5950366, US2011239410, US2009246526, US2007039255, US2006001290, JP7285329, GB2334064, GB2334064, FR2755896, EP0818299,

Abstract:
Source: US5492387A An automobile windshield molding is installed together with a metallic core material against a windshield installed in a window opening section of an automobile body panel. The windshield molding having a decorative section for covering an outside portion of the vehicle body panel and an installation section projecting from a rear side of the decorative section. The molding also includes a metallic core material which acts as a supporting frame for the molding. The metallic core material is disposed from the decorative section to the

installation section.

33) Family number: 30080680 (US2001001582A) © PatBase

Title: Projection screen apparatus including holographic optical element

Priority: DE19924215744 19920513 US19930060906 19930512 US19950481199 19950607 US19980060906 19980415 US20030452278 20030603 US20030452254 20030603 US20040824672 20040414 US20030455769 20030603 US20000521236 20000405 US20030452238 20030603 US20020120785 20020412 US20020122138 20020415 WO2004US17450 20040602 WO2004US17449 20040602 WO2004US17399 20040602 WO2004US17446 20040602 WO2003US03116 20030220

Family:

Publication number	Publication date	Application number	Application date
AU2003207812 AA	20031027	AU20030207812	20030220
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JP2007526491 T2	20070913	JP20060515117T	20040602
JP2007526492 T2	20070913	JP20060515118T	20040602
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KR20060059889 A	20060602	KR20057023029	20040602
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US2002159109 AA	20021031	US20020122138	20020415
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US2003206342 AA	20031106	US20030452278	20030603
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WO04109341 A3	20050526	WO2004US17399	20040602	
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WO04111706 A3	20050303	WO2004US17449	20040602	
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WO04111915 A3	20050602	WO2004US17450	20040602	
WO05002196 A2	20050106	WO2004US17446	20040602	
WO05002196 A3	20050512	WO2004US17446	20040602	

Probable Assignee: BRIGHT VIEW TECHNOLOGIES CORP

Assignee(s):(std)**:** BROSE FAHRZEUGTEILE ; KNOX RICHARD M ; FREESE ROBERT R ; REED DAVID ; FADEL EDWARD ; FREESE ROBERT P ; DUKE UNIV ; BRIGHT VIEW TECHNOLOGIES INC ; UNIV DUKE ; WALKER DALE S

Assignee(s): TREDEGAR NEWCO INC ; BRIGHT VIEW TECHNOLOGIES CORP ; CHI MEI MATERIALS TECHNOLOGY CORP ; BRIGHT VIEW TECHNOLOGIES INC513 LAKESHORE LANECHAPEL HILLNC27514US ; OMNIOPTICS CO ; OMNIINNOVATION CO LTD ; OMNIOPTICS CO LTD ; CHI MEI CORP ; DUKE UNIVERSITY ; BROSE FAHRZEUGTEILE GMBH AND CO 96450 COBURG DE KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG 96450 COBURG DE

Inventor(s):(std)**:** DALE S WALKER ; DAVID REED ; EDWARD FADEL ; FADEL EDWARD ; FREESE ROBERT P ; FREESE ROBERT R ; HAGEDORN PETER ; KESSLER MICHAEL ; KNOX RICHARD M ; REED DAVID ; RICHARD M KNOX ; ROBERT P FREESE ; ROBERT R FREESE ; SALZBURGER HANS JUERGEN ; WALKER DALE S ; WILBRAND ANSGAR

Inventor(s): WILBRAND ANSGAR 4242 REES DE ; WILBRAND ANSGAR 46459 REES DE ; WALKER DALE SUS ; SALZBURGER HANS JUERGEN 66539 NEUNKIRCHEN DE ; SALZBURGER HANS JUERGEN 6680 NEUNKIRCHEN DE ; REED DAVIDUS ; KESSLER MICHAEL 6050 OFFENBACH DE ; KESSLER MICHAEL 63069 OFFENBACH DE ; HAGEDORN PETER 6104 SEEHEIM JUGENHEIM DE ; HAGEDORN PETER 64342 SEEHEIM JUGENHEIM DE ; FREESE ROBERT PUS

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS; SIM AND MCBURNEY; MYERS BIGEL SIBLEY AND SAJOVEC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): E05F15/00 F16P3/12 G01B7/02 G01V1/00 G02B1/11 G02B27/10 G02B3/00 G02B3/02 G02B5/00 G03B21/10 G03B21/56 G03B21/60 G03B21/62 G03B21/625 G03F7/00 (Advanced/Invention);
G02B27/10 G02B3/00 G03B21/56 G03B21/60 (Advanced/Non–invention);
E05F15/00 F16P3/00 G01B7/02 G01V1/00 G03B21/10 G03B21/62 (Core/Invention);
G02B G02F G06K H04N (Subclass/Invention)

International class (IPC 1–7): B29D11/00 B60J7/057 E05B49/00 E05F15/20 E06B3/00 F16P3/12 G01B7/00 G01L1/16 G01V3/08 G02B21/56 G02B21/60 G02B27/10 G02B5/32 G03B21/10 G03B21/14 G03B21/56 G03B21/60 G03B21/62 G03C5/00 G03F1/00 G06K1/00 G12B1/00

CPC: G02B3/0031 G02B5/005 E05F15/431 G01V1/001 E05Y2400/664 E05Y2900/55 F16P3/12 G01B7/023 B29C43/021 B29L2011/0016 G02B3/0043 G02B3/0062 G02B5/1876 G02B3/0012 G02B3/005 G02B3/0056 G02B5/1885 G03B21/625 B29D11/00278 G03B21/602

European class: B29C43/02B B29D11/00C6 E05F15/00B6B2 F16P3/12 G01B7/02B G01V1/00A G02B3/00A1 G02B3/00A1R G02B3/00A3I G02B3/00A3L G02B3/00A3S G02B3/00A3Z G02B5/00D G02B5/18Z G02B5/18Z1A G03B21/60B G03B21/62B L29C43/02B L29L11/00C P05Y400/664 P05Y900/550

US class: 264/2.5 264/2.500P 359/15 359/15P 359/443 359/443P 359/453 359/455 359/455P 359/456 359/456S 359/457 359/460 359/460P 359/460S 359/619 359/619P 359/620 359/626 430/321 430/5 49/28 49/506

Classification Explorer

Cited documents: WO9727606 A1, WO9534832 A1, WO9429768 A1, WO06057769 A2, WO04088590 A1, WO02077672 A2, WO0203136 A1, WO0067071 A1, US6829087 BB, US6816306 BB, US6700702 BB, US6639705 BB, US6597502 BB, US6594079 BA, US6590605 BA, US6552848 BB, US6503384 BA, US6483612 BB, US6469830 BA, US6469820 BA, US6410213 BA, US6353500 BA, US6335828 BA, US6317263 BA, US6301051 BA, US6278546 BA, US6185038 BA, US6128054 A, US5933276 A, US5932342 A, US5877893 A, US5877874 A, US5870224 A, US5801794 A, US5796499 A, US5695895 A, US5694246 A, US5692820 A, US5688064 A, US5686793 A, US5682080 A, US5670842 A, US5666176 A, US5661531 A, US5657408 A, US5644431 A, US5642226 A, US5626800 A, US5615045 A, US5612820 A, US5606220 A, US5573324 A, US5563738 A, US5557343 A, US5512219 A, US5504391 A, US5496668 A, US5486949 A, US5473453 A, US5467154 A, US5453859 A, US5442482 A, US5410227 A, US5404076 A, US5381309 A, US5337179 A, US5337106 A, US5333072 A, US5229748 A, US5223869 A, US5193015 A, US5190370 A, US5166824 A, US5122906 A, US5122905 A, US5054885 A, US4982214 A, US4969732 A, US4961642 A, US4874228 A, US4799137 A, US4773731 A, US4666249 A, US4666248 A, US4523849 A, US4490010 A, US4458445 A, US4418986 A, US4351016 A, US4268188 A, US4268118 A, US4172219 A, US4083626 A, US4076384 A, US4023156 A, US3893748 A, US3727348 A, US2004004770 AA, US2002145797 AA, US2002034710 AA, US2002034014 AA, US2001001582 AA, US1942841 A, JP9258007 A2, JP5313153 A2, JP3243932 A2, JP3043932 A2, JP2000047332 A2, JP11295504 A2, JP11101902 A2, JP10239503 A2, JP10123623 A2, JP10039769 A2, GB1347474 A, FR2793043 A1, EP96309443, EP96309443, EP0783133 A1, EP0657769 A1, EP0488590 A1, DE3712950 A1, DE3528380 A1, DE3438050 A1, DE3236631 A1, DE3136746 C2, DE3136746 A1, DE3034118 C2, DE3034118 A1, DE2719955 C2, DE2719955 A1, DE2432063 B2, DE2432063 A1, DE2246337 A1, DE2127207 A1, AU395697 A1, AT97/03956,

Forward Citations: WO9710468, WO17023538, WO16142259, WO16077309, WO16053506, WO14165863, WO14165863, WO12107097, WO11114180, WO09065389, WO08091744, WO08070401, WO08045234, WO08045234, WO07140493, WO07133337, WO07067573, WO06130517, WO06115709, WO06060298, WO06060298, WO05067621, WO05067621, WO05066711, WO05002196, WO05002196, WO04109341, WO04109341, USD800618, USD798207, USD797627, USD783480, US9772550, US9761621, US9733459, US9720228, US9694752, US9694751, US9640781, US9632315, US9588370, US9581817, US9511715, US9505349, US9496523, US9448353, US9429826, US9395479, US9279559, US9274263, US9267318, US9244212, US9217912, US9122134, US9121979, US9111471, US9110289, US9036117, US9025235, US9019590, US9019183, US9015993, US8979349, US8971675, US8928967, US8902484, US8884815, US8872085, US8861071, US8848294, US8817208, US8798425, US8795559, US8794810, US8781794, US8757849, US8756863, US8755115, US8740439, US8721149, US8674616, US8670171, US8649090, US8610806, US8586285, US8576489, US8469549, US8459807, US8444296, US8439546, US8416154, US8402647, US8393777, US8369012, US8368981, US8362987, US8348489, US8310762, US8310624, US8309000, US8300304, US8231257, US8228603, US8193441, US8174776, US8162512, US8128257, US8111446, US8111445, US8081377, US8068710, US8061882, US8054414, US8049951, US8045252, US8040589, US8040588, US8021714, US8004767, US8004743, US7963583, US7928928, US7927520, US7911428, US7907319, US7898521, US7864420, US7864395, US7855824, US7845841, US7835079, US7813026, US7808706, US7807488, US7806547, US7800825, US7791823, US7787180, US7782293, US7777954, US7773289, US7728800, US7719747, US7710636, US7710632, US7687205, US7667893, US7652822, US7646538, US7643213, US7639425, US7630123, US7626751, US7619822, US7603001, US7587109, US7570423, US7567380, US7561323, US7560295, US7545586, US7502169,

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Abstract:
Source: US2001001582A A screen apparatus includes a holographic optical element and a diffuser. The holographic optical element may be constructed using standard techniques known in the field of holography. The holographic optical element may be used to replace a typical Fresnel lens used in projection screen apparatuses. In operation, the holographic optical element receives image light from an image engine or projector and redirects the image light to the diffuser for scattering. The holographic optical element can be designed to substantially collimate. converge, or diverge the image light. The combination of the holographic optical element and the diffuser provides improved illumination uniformity that can be perceived by a viewer as the viewer moves in directions transverse to the screen apparatus. The screen apparatus may be designed to provide improved illumination uniformity to optimized or optimal locations in a viewing region. The screen apparatus may be advantageously employed in display apparatuses.

0) US2002101210A – COLLISION MONITORING SYSTEM

34) Family number: 28313853 (US2002101210A) © PatBase

Title: COLLISION MONITORING SYSTEM

Priority: US19920872190 19920422 US19940275107 19940714 US19970795971 19970205 US20000562986 20000501 US19960736786 19961025 US19990169061P 19991206 US20090360942 20090128 US20020071759 20020207 US20040765487 20040127 US20020100892 20020318 US20120542726 20120706

Family:

Publication number	Publication date	Application number	Application date
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EP0692856 A3	19971008	EP19950107438	19950516
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US6064165 A	20000516	US19960736786	19961025
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US7579802 BB	20090825	US20040765487	20040127
US8217612 BB	20120710	US20090360942	20090128
US9030144 BB	20150512	US20120542726	20120706

Probable Assignee: UUSI LLC

Assignee(s):(std)**:** NARTRON CORP ; PERRIN RANDALL ; UUSI LLC ; WASHELESKI JOHN ; BOISVERT MARIO

Inventor(s):(std)**:** WHEELER MARK R ; PERRIN RANDALL ; CATUDAL MICHEL ; BOISVERT MARIO ; WASHELESKI JOHN ; COOPER STEPHEN R W ; BOISVERT MARIO P

Agent(s): TAROLLI SUNDHEIM COVELL AND TUMMINO LLP; HOWARD AND HOWARD ATTORNEYS PLLC

Designated states: DE FR GB IT

International class (IPC 8–9): B60J7/057 E05F15/00 E05F15/10 E05F15/20 G05D3/00 H02H7/08 H02H7/085 H02P3/00 H02P7/00 (Advanced/Invention); H02H3/00 H02H3/44 (Advanced/Non–invention); B60J7/04 H02H7/085 (Core/Invention); H02H3/00 H02H3/44 (Core/Non–invention)

International class (IPC 1–7): B01J19/00 C07K14/00 C12Q1/68 E05F15/14 G01N33/545 G05B5/00 G05D3/00 G05D3/20 H02H7/08 H02H7/085 H02P1/04 H02P3/00 H02P7/00

CPC: Y10S388/903 E05Y2400/44 E05Y2800/00 E05Y2400/54 B60J7/0573 H02H3/006 H02H3/44 H02H7/0851 H02H7/0854 E05F15/41 E05Y2900/542 E05Y2900/55

European class: B01J20/32 B60J7/057B G01N33/545 G01N33/68A H02H7/085B P05Y400/54 T02H3/00C T02H3/44 T02H7/085E

US class: 307/10.1 307/101 318/264 318/265 318/266 318/280 318/282 318/286 318/434 318/453 318/453S 318/461 318/465 318/466 318/467 318/468 318/469 318/469P 318/476 318/565 388/815 388/833 388/903 49/25 49/26 49/28 49/28P 49/31 49/506

Classification Explorer

Cited documents: WO9220891 A1, WO0014846 A1, USRE37784 E, US8341885 BB, US8217612 BB, US8156826 BB, US7579802 BB, US7548037 BB, US7319301 BB, US7307395 BB, US7164246 BB, US6806665 BB, US6806664 BB, US6683431 BB, US6566828 BB,

US6548979 BB, US6528961 BA, US6456022 BA, US6404158 BA, US6400112 BA, US6377009 BA, US6310451 BA, US6278249 BA, US6274947 BA, US6246196 BA, US6243635 BA, US6208102 BA, US6172475 BA, US6172475 B1, US6169379 BA, US6169379 B1, US6157024 A, US6133703 A, US6111374 A, US6107765 A, US6097166 A, US6064165 A, US6057658 A, US5982124 A, US5969637 A, US5955854 A, US5952801 A, US5949207 A, US5932931 A, US5832664 A, US5734245 A, US5729104 A, US5723960 A, US5708338 A, US5701063 A, US5616997 A, US5585702 A, US5539290 A, US5537013 A, US5530329 A, US5525876 A, US5497326 A, US5483133 A, US5436539 A, US5432413 A, US5410227 A, US5404673 A, US5399950 A, US5334876 A, US5278480 A, US5218282 A, US5204592 A, US5162711 A, US5140316 A, US5131506 A, US5081586 A, US5069000 A, US5039925 A, US5038087 A, US4980618 A, US4870333 A, US4855653 A, US4831509 A, US4823059 A, US4746845 A, US4730152 A, US4686598 A, US4673848 A, US4641067 A, US4608637 A, US4514670 A, US4468596 A, US4433509 A, US4386398 A, US4383206 A, US4365250 A, US4347465 A, US4344252 A, US4328540 A, US3888047 A, US3651389 A, US3581174 A, US3513374 A, US2887311 A, US2756990 A, US2751219 A, US2010050787 AA, US2010024301 AA, US2009272035 AA, US2009260289 AA, US2009206784 AA, US2009146668 AA, US2006186844 AA, US2005140323 AA, US2004195986 AA, US2004183493 AA, US2004070316 AA, US2004056621 AA, US2003038606 AA, US2003025470 AA, US2002121872 AA, US2002101210 AA, US2002093301 AA, US2002084759 AA, US2001048280 AA, US2001038272 AA, US2001024095 AA, US2001024094 AA, GB2189906 A1, GB2026723 A1, FR2502679 A1, EP0581509 A1, DE4000730 A1,

Forward Citations: WO9840945, WO9812787, WO9726694, WO9619858, WO9619857, WO16146327, WO09132900, WO07093496, WO06102162, WO05078538, WO05071812, WO04037580, WO03088469, WO0223691, WO02075462, WO0169747, US9797179, US9785156, US9740324, US9722415, US9705494, US9663981, US9660644, US9654103, US9641122, US9621091, US9616439, US9575481, US9568527, US9559688, US9548733, US9531379, US9529088, US9520875, US9515590, US9512662, US9447613, US9417099, US9410371, US9388762, US9347837, US9337832, US9311204, US9290077, US9287864, US9267318, US9234979, US9219472, US9199608, US9197206, US9184745, US9161649, US9143126, US9136840, US9121687, US9058035, US9056749, US9051769, US9046967, US9030144, US9008914, US8991103, US8984809, US8770496, US8769878, US8723471, US8723454, US8720649, US8626384, US8615927, US8590817, US8571774, US8565964, US8508170, US8496194, US8493081, US8463505, US8461786, US8461784, US8456121, US8448521, US8428828, US8379687, US8378609, US8336927, US8321105, US8307878, US8248005, US8237438, US8220846, US8217612, US8175769, US8141300, US8089230, US8022653, US8016213, US7988075, US7978119, US7973506, US7960932, US7926748, US7919883, US7908927, US7902782, US7876152, US7843153, US7816878, US7808200, US7800332, US7798761, US7750588, US7723935, US7719220, US7701157, US7667425, US7633253, US7622876, US7616023, US7612515, US7610030, US7583040, US7579802, US7551995, US7548037, US7548033, US7535191, US7526371, US7518327, US7518325, US7513166, US7511572, US7476860, US7464980, US7449852, US7432676, US7408317, US7385446, US7362068, US7359783, US7354097, US7342373, US7324894, US7323885, US7321607, US7312591, US7293467, US7268506, US7219575, US7215529, US7208694, US7205735, US7196486, US7170244, US7162928, US7161779, US7145299, US7145262, US7132642, US7112900, US7112900, US7109676, US7073291, US7070013, US7068153, US7066518, US7047583, US7046126, US7038414, US7009352, US7000982, US6995532, US6968746, US6949904, US6946853, US6943511, US6940246, US6936988, US6936984, US6933694, US6909253, US6882123, US6859708, US6839372, US6825628, US6822410, US6809488, US6806664, US6795474, US6794837, US6788096, US6788016, US6782759, US6766273, US6759817, US6757316, US6756755, US6756754, US6748308, US6739212, US6693273, US6686669, US6678601, US6598253, US6571488, US6555982, US6552506, US6548979, US6548974, US6541930, US6504332, US6499359, US6498450, US6476518, US6445147, US6437530, US6404158, US6366040, US6329779, US6320341, US6297609, US6288511, US6253135, US6249732, US6246199, US6246194, US6243635, US6236905, US6236176, US6225769, US6215265, US6194857, US6194855, US6169379, US6166508, US6157024, US6137404, US6118243, US6114819, US6086177, US6081088, US6064165, US6054822, US6043620, US6005361, US5955854, US5847289, US5838126, US5825147, US5734245, US5729456, US5723960, US5714854, US5708335, US5612600, US5610484, US5594283, US5585702, US5557887, US5539290, US5530329, US5497326, US5483133, US5459379, US5451849, US5410226, US5399950, US2017117828, US2017030128, US2016379532, US2016248358, US2016180610, US2016156299, US2016131762, US2015284983, US2015130385, US2015114761, US2015108922, US2014265991, US2014200732, US2014173984, US2014008028, US2013328616, US2013307610, US2013305608, US2013276748, US2013271058, US2013271050, US2013106435, US2013080005,

US2012285086, US2012279806, US2012221170, US2012217097, US2012138393, US2012043920, US2011187492, US2011168465, US2011163764, US2011160935, US2011154738, US2011068721, US2011046856, US2011043325, US2011043158, US2011041409, US2011001722, US2010320944, US2010283581, US2010259249, US2010231222, US2010231036, US2010228447, US2010192300, US2010175838, US2010174447, US2010102598, US2010037524, US2009320372, US2009293361, US2009272035, US2009271077, US2009259371, US2009240401, US2009231031, US2009224083, US2009224077, US2009224075, US2009224074, US2009223446, US2009198420, US2009158857, US2009112424, US2009090061, US2009079378, US2009066274, US2009019772, US2008315909, US2008309263, US2008303460, US2008263964, US2008259510, US2008204111, US2008202029, US2008184623, US2008136358, US2008106116, US2008079379, US2008078870, US2008044268, US2008024940, US2008000957, US2007285159, US2007241704, US2007214722, US2007182352, US2007152615, US2007098033, US2007095595, US2007089527, US2007086879, US2007075665, US2007054644, US2007035264, US2007001115, US2006267374, US2006261763, US2006255757, US2006255618, US2006250102, US2006214429, US2006208678, US2006208676, US2006202651, US2006139036, US2006117862, US2006038519, US2006009892, US2006006701, US2005286599, US2005283280, US2005231147, US2005228579, US2005187688, US2005174080, US2005156546, US2005140322, US2005128660, US2005122076, US2005110445, US2005092097, US2005083004, US2005083003, US2005067987, US2005052082, US2005041375, US2005040779, US2005023867, US2005017667, US2005016290, US2004201276, US2004200308, US2004189046, US2004183493, US2004178924, US2004155529, US2004095250, US2004070355, US2004006831, US2003222610, US2003218346, US2003205998, US2003193340, US2003189415, US2003151382, US2003141986, US2003137266, US2003128005, US2003111995, US2003080699, US2003056600, US2003052631, US2003007851, US2002180269, US2002171384, US2002167986, US2002143452, US2002105994, US2002101210, US2002091475, US2002021728, TWI473659, TWI442350, JP2003527057, GB2424965, GB2424965, FR2924150, EP3188334, EP2470736, EP2470736, EP2338717, EP2175330, EP1983648, EP1969709, EP1969709, EP1758224, EP1580861, EP1566510, EP1294070, EP1277912, EP1176687, EP1164245, EP1096633, EP0966782, EP0927447, EP0900679, EP0855488, EP0723886, EP0716492, EP0692856, DE102014221246, CN105401825, CN105298292, CN105257135, CN104795797, CN103984243, CN103806785, CN101824948, CN101824948, AU700051,

Abstract:
Source: US2002101210A Disclosed is an improved system and method for sensing both hard and soft obstructions for a movable panel such as a sunroof. A dual detection scheme is employing that includes an optical sensing as the primary means and electronic sensing of motor current as a secondary means. The secondary means utilizes system empirical precharacterization, fast processing algorithms, motor parameter monitoring including both current sensing and sensorless electronic motor current commutation pulse sensing, and controller memory, to adaptively modify electronic obstacle detection thresholds in real time without the use of templates and cycle averaging techniques.

0) EP0630170A2 – ELECTRICAL CONNECTION FOR WINDOW. ELEKTRISCHES...

35) Family number: 10124588 (EP0630170A2) © PatBase

Title: ELECTRICAL CONNECTION FOR WINDOW.

Priority: EP19940401279 19940608 FR19930007207 19930615

Family:

Publication number	Publication date	Application number	Application date
AT239348 E	20030515	AT19940401279T	19940608
DE69432578 D1	20030605	DE19946032578	19940608
DE69432578 T2	20040318	DE19946032578T	19940608
DE69432578 T3	20141127	DE19946032578T	19940608
EP0630170 A2	19941221	EP19940401279	19940608
EP0630170 A3	19950705	EP19940401279	19940608
EP0630170 B1	20030502	EP19940401279	19940608
EP0630170 B2	20140723	EP19940401279	19940608
ES2198413 T3	20040201	ES19940401279T	19940608
FR2706724 A1	19941223	FR19930007207	19930615
FR2706724 B1	19970430	FR19930007207	19930615
JP3706158 B2	20051012	JP19940133074	19940615
JP7069047 A2	19950314	JP19940133074	19940615
KR100330441 B1	20020821	KR19940013675	19940615
KR19950002120 A	19950104	KR19940013675	19940615
PL175030 B1	19981030	PL19940303842	19940615
PL303842 A1	19950109	PL19940303842	19940615
PT630170 T	20030829	PT19940401279T	19940608
SI0630170 T1	20031031	SI19940030452T	19940608

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN VITRAGE ; SAINT GOBAIN VITRAGE INT

Assignee(s): SAINT GOBAIN VITRAGE INTERNAL ; SAINT GOBAIN GLASS FRANCE COURBEVOIE ; SAINT GOBAIN VITRAGE INTERNATIONAL

Inventor(s):(std)**:** DE PAOLI MARTIAL ; DENIS MATHIVAT ; HUCHET GERARD ; GERARD HUCHET ; DENISU MATEIBA ; DEVERT LAURANT ; MATHIVAT DENIS ; MARTIAL DE PAOLI ; MARUTEIARU DOU PAORI ; JIERAARU USHIE ; PAOLI MARTIAL DE

Agent(s): LE VAGUERESE SYLVAIN JACQUES

Designated states: AT BE DE ES FR GB IT NL PT SE SI

International class (IPC 8–9)**:** B60J1/00 B60J1/20 H02G3/30 H05B3/06 H05B3/84 (Advanced/Invention); H05B3/84 (Advanced/Non–invention); H05B3/06 (Core/Invention)

International class (IPC 1–7)**:** B60J1/00 B60J1/20 H01R13/62 H02G3/26 H02G3/30 H05B3/06 H05B3/84

CPC: H05B3/84 H05B2203/016

European class: H05B3/84 T05B203/016

Classification Explorer

Cited documents: US5049892 A, US4755659 A, US4542282 A, US3467818 A, GB786586 A, GB2207696 A1, FR2233487 A1, FR1544718 A, EP0483707 A2, EP0275575 B1, EP0255218 B1, EP0153806 A1, DE3435566 A1, DE3402518 A1,

Forward Citations: WO11161391, WO08137946, WO08074894, US9658478, US9547206, US9400411, US8106332, KR101426401, KR101316232, JP5140088, JP4693471, JP2010527120, JP2010514121, JP2005307208, FR2961916, EP0671864,

Abstract:
Source: EP0630170A2 The invention relates to a window equipped with at least one accessory supplied with electrical signals. It is fitted with at least one electrical connection device comprising conducting elements and at least one cable comprising conducting filaments, at least part of the cable being fixed on the substrate involved in the construction of the window.

0) US5473125A – VIBRATION–INSULATING PANEL ELEMENT

36) Family number: 32481998 (US5473125A) © PatBase

Title: Vibration–insulating panel element

Priority: DE19934321551 19930629

Family:

Publication number	Publication date	Application number	Application date
DE4321551 A1	19950112	DE19934321551	19930629
DE4321551 C2	19961121	DE19934321551	19930629
EP0631905 A1	19950104	EP19940103644	19940310
JP2693379 B2	19971224	JP19940144599	19940627
JP7020875 A2	19950124	JP19940144599	19940627
US5473125 A	19951205	US19940268220	19940629

Probable Assignee: FREUDENBERG CARL FA

Assignee(s):(std)**:** FREUDENBERG CARL FA ; NOK CORP

Assignee(s): FREUDENBERG FA ; CARL FREUDENBERG 69469 WEINHEIM DE FA ; CARL FREUDENBERG FA

Inventor(s):(std)**:** YURUGEN KAROTSUCHI ; TOOMASU YOSUTO ; ROOGAA SHIYORUKU ; RAINHARUTO SHIYUTEIIFU ; KURISUTOFU MIYURAA ; KURAUSU BITSUKERU ; GERUHARUTO MIYURAA BURORU ; STIEF REINHARD ; SCHORK ROGER ; MUELLER CHRISTOPH ; MUELLER BROLL GERHARD DR ; MUELLER BROLL GERHARD ; JOST THOMAS DIPL ING ; CAROCCI JUERGEN ; BICKEL KLAUS ; JOST THOMAS

Inventor(s): BICKEL KLAUS 64658 FUERTH DE ; CAROCCI JUERGEN 69198 SCHRIESHEIM DE ; JOST THOMAS DIPL ING 69469 WEINHEIM DE ; MUELLER BROLL GERHARD DR CHEM 64668 RIMBACH DE ; MUELLER BROLL GERHARD DR CHEM ; MUELLER CHRISTOPH 69509 MOERLENBACH DE ; SCHORK ROGER 69509 MOERLENBACH DE ; STIEF REINHARD 69469 WEINHEIM DE

Designated states: ES FR GB IT

International class (IPC 8–9): B60J5/00 B60R13/08 B62D29/04 G10K11/16 G10K11/162 (Advanced/Invention); B60J5/00 B60R13/08 B62D29/00 G10K11/00 (Core/Invention)

International class (IPC 1–7): B60J5/00 B60R13/02 B60R13/08 B62D29/04 E04B1/82 G10K11/16 G10K11/162

CPC: B60R13/0892 B60R13/0815 B60R2013/0807

European class: B60R13/08B B60R13/08N L60R13/08A

US class: 181/286 181/290

Classification Explorer

Cited documents: US4904511 A, US4867271 A, US4456092 A, US2073735 A, GB2167020 A1, FR1294215 A, EP0290399 A2, DE9210663 U, DE4124023 A1, DE3615352 A1, DE2518002 A1,

Forward Citations: WO12176324, WO07053067, WO07029697, WO06114196, WO04050432, WO02092371, WO0174623, US9784028, US9783282, US9765563, US9751611, US9567060, US9567058, US9027982, US8371665, US8087494, US7712579, US7093814, US6712179, US6619724, US6550835, US6484845, US2017158333, US2016152117, US2009301809, US2009217491, US2009065298, US2008202846, US2006272279, US2006254854, US2004245427, JP5556964, JP2007302243, FR2847867, FR2824801, EP1839954, EP1744302, EP1262358, EP0847040, EP0847040, DE19914934, DE19914934,

Abstract:
Source: US5473125A A panel element for insulating acoustically undesirable vibrations is disclosed. The panel element comprises a closed–cell foam element for closing off a hollow body provided with an opening on at least one side. The foam element possesses a mounting structure by which it can be fastened to the hollow body. The foam element is configured to the shape of the opening, and has on its perimeter a mounting structure. The mounting structure consists of a self–contained peripheral groove open in the direction of the boundary. The groove and the boundary can be brought into engagement with one another in a sealing and positive manner.

0) US5780985A – DEFORMABLE SYSTEM

37) Family number: 11021300 (US5780985A) © PatBase

Title: DEFORMABLE SYSTEM

Priority: EP19950301792 19950317 GB19940006485 19940331 US19970785302 19970122 US19950413543 19950330 GB19940013398 19940704

Family:

Publication number	Publication date	Application number	Application date
DE69502653 D1	19980702	DE19956002653	19950317
DE69502653 T2	19980924	DE19956002653T	19950317
EP0675255 A1	19951004	EP19950301792	19950317
EP0675255 B1	19980527	EP19950301792	19950317
GB2288014 A1	19951004	GB19940013398	19940704
GB9406485 A0	19940525	GB19940006485	19940331
GB9413398 A0	19940824	GB19940013398	19940704
JP8054299 A2	19960227	JP19950076359	19950331
US5780985 A	19980714	US19970785302	19970122

Probable Assignee: COOPER STANDARD AUTOMOTIVE INC

Assignee(s):(std)**:** STANDARD PRODUCTS CO ; STANDARD PROD LTD

Assignee(s): THE STANDARD PRODUCTS COMPANY ; STANDARD PRODUCTS LIMITED ; STANDARD PRODUCTS LTD HUNTINGDON CAMBRIDGSHIRE GB ; STANDARD PRODUCTS LTD ; COOPER STANDARD AUTOMOTIVE INC ; DEUTSCHE BANK TRUST OF CO ; DEUTSCHE BANK TRUST OF CO AMERICAS A COLLATERAL AG ; DEUTSCHE BANK TRUST OF CO AMERICAS A COLLATERAL AGENT ; STANDARD PROD CO ; STANDARD PROD CO THE

Inventor(s):(std)**:** ARAN CHIYAARUZU BITSUKURII ; BICKLEY ALAN CHARLES ; JIYON NIKORASU HOORU ; HALL JOHN NICHOLAS ; PARNHAM LAURENCE JOHN ; ROORENSU JIYON PAANHAMU

Inventor(s): PARNHAM LAURENCE JOHN HUNTINGDON CAMBS PE19 4PX GB ; HALL JOHN NICHOLAS PETERBOROUGH CAMBRIDGESHIRE PE6 ; HALL JOHN NICHOLAS PETERBOROUGH CAMBRIDGESHIRE PE6 9HP GB ; JOHN NICHOLAS HALL ; LAURENCE JOHN PARNHAM ; BICKLEY ALAN CHARLES HUNTINGDON CAMBS PE8 8XR GB ; ALAN CHARLES BICKLEY

Designated states: DE ES FR GB IT SE

International class (IPC 8–9): B60J1/00 E05F15/00 G01L1/00 G01L1/25 (Advanced/Invention); B60J1/00 E05F15/00 G01L1/00 G01L1/25 (Core/Invention)

International class (IPC 1–7): B60J1/00 E05F15/00 E05F15/20 G01L1/00 G01L1/25 G01V8/16 G05B5/00

CPC: E05F15/431 E05Y2900/55

European class: E05F15/00B6B2 P05Y900/550

US class: 318/282 318/460 318/468 318/488 49/28

Classification Explorer

Cited documents: US4944116 A, US4200169 A, US4143367 A, JP60185626 A2, JP60185626, JP59128009 A2, JP59128009, GB2236388 A1, GB2112934 A1, FR2612027 A1, FR2200882 A5, EP0560047 A1, EP0259573 A1, DE8608064 U, DE3107847 A1,

Forward Citations: WO9937982, WO09013402, WO09013402, WO09000975, US8558732, US8175769, US7821418, US7163221, US6936984, US6420693, US6365000, US6169379, US5949207, US5912625, US2007035113, US2005283280, JP5560187, JP2011516888, JP2010531398, GB2434016, GB2434016, GB2400434, GB2360585, GB2360585, GB2334751, GB2334751, FR2917770, EP1985787, EP1096092, EP1096090, EP1049916, CN105927089, AU2008278934,

Abstract:
Source: US5780985A A deformation detection system including an elongated element having a hollow

deformable wall member that defines a radiation transmission path. A sound radiation transmission source positioned at one end of the elongated member transmits acoustical radiation into the radiation transmission path. A sound radiation detector positioned at an opposite end of the radiation transmission path is responsive to and detects the acoustical radiation transmitted from the radiation source. Deformation of the wall member at least partially interrupts the radiation transmission path such that transmitted acoustical radiation from the sound radiation source is attenuated, and the attenuated acoustical radiation is detected and assessed by the radiation detector. The detection system has particular applicability to monitor a body opening of a motor vehicle in which a closure member, such as a window, is movable towards a peripheral edge of the body to close the opening by an electrically operated drive mechanism. A detected attenuated acoustic radiation signal provides a signal to the drive mechanism to stop movement of the closure member.

0) US5493814A – WEATHERSTRIP ASSEMBLY INCLUDING A GLASS RUN CHA...

38) Family number: 9407248 (US5493814A) © PatBase

Title: WEATHERSTRIP ASSEMBLY INCLUDING A GLASS RUN CHANNEL AND BELT WEATHERSTRIP WITH DECORATIVE COVER

Priority: CA19952147067 19950413 US19940228657 19940418

Family:

Publication number	Publication date	Application number	Application date
BRPI9501375 A	19951114	BR1995PI01375	19950417
CA2147067 AA	19951019	CA19952147067	19950413
CA2147067 C	20051206	CA19952147067	19950413
DE69508132 D1	19990415	DE19956008132	19950418
DE69508132 T2	19990701	DE19956008132T	19950418
EP0678412 A1	19951025	EP19950302543	19950418
EP0678412 B1	19990310	EP19950302543	19950418
JP8048147 A2	19960220	JP19950092628	19950418
KR100373545 B1	20040429	KR19950009335	19950417
KR19950031582 A	19951218	KR19950009335	19950417
US5493814 A	19960227	US19940228657	19940418

Probable Assignee: COOPER STANDARD AUTOMOTIVE INC

Assignee(s):(std)**:** STANDARD PRODUCTS CO

Assignee(s): DEUTSCHE BANK TRUST OF CO ; STANDARD PROD CO THE ; DEUTSCHE BANK TRUST OF CO AMERICAS A COLLATERAL AGENT ; STANDARD PRODUCTS CO CLEVELAND OHIO US ; STANDARD PROD CO ; STANDARD PRODUCTS CO THE ; THE STANDARD PRODUCTS COMPANY ; THE STANDARD PRODUCTS COMPANY CLEVELAND OHIO US ; STANDARD PRODUCTS COMPANY THE ; BANK OF AMERICA NA AGENT AS ; CHRISTIAN WILLARD CARSON ; COOPER STANDARD AUTOMOTIVE INC ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS

Inventor(s):(std)**:** CHRISTIAN WILLARD C ; CHRISTIAN WILLARD CARSON ; UIRAADO KAASON KURISUCHIYAN

Inventor(s): WILLARD CARSON CHRISTIAN ; CHRISTIAN WILLARD CARSON LAMBERTVILLE MICHIGAN 481 ; CHRISTIAN WILLARD CARSON LAMBERTVILLE MICHIGAN 48144 US ; CHRISTIAN WILLARD CARSON LAMBERTVILLE MICHIGAN...

Agent(s): MACRAE AND CO

Designated states: DE FR GB

International class (IPC 8–9): B60J1/02 B60J10/00 B60J10/04 B60J10/06 B60J10/08 (Advanced/Invention); B60J1/02 (Advanced/Non–invention); B60J10/00 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J1/02 B60J10/04 B60J10/06 B60J5/00 E06B7/16

CPC: B60J10/79 B60J10/21 B60J10/233 B60J10/265 B60J10/32 B60J10/75 B60J10/76

European class: B60J10/00D1 B60J10/00D3B B60J10/00D7B B60J10/00G1 B60J10/04 B60J10/04B B60J10/06

US class: 49/377 49/440 49/479.1 49/490.1 49/506

Classification Explorer

Cited documents: US5353549 A, US5311711 A, US5207027 A, US5170586 A, US5151307 A, US5042201 A, US5014464 A, US5010689 A, US4975306 A, US4956943 A, US4951418 A, US4910918 A, US4888929 A, GB2216936 A1, EP0499530 A1, EP0385028 A1, EP0384851 A2, EP0355948 A2, DE3912897 A1,

Forward Citations: WO09012570, WO08157332, WO08037906, WO07135329, WO05103426, WO0115926, US9151107, US9126472, US9032668, US8839564, US8689489, US8661736,

US8479449, US8458959, US8429855, US8327584, US8266841, US8205389, US8001727, US7118169, US7118169, US7069697, US7052021, US6996936, US6968649, US6742304, US6725605, US6681526, US6652952, US6612074, US6446392, US6260254, US6141854, US6082048, US2013097936, US2012079772, US2012060422, US2012023829, US2011308170, US2011219700, US2011099912, US2010186301, US2010052359, US2009265999, US2009071077, US2009064592, US2009025300, US2008216412, US2007125004, US2007101656, US2006005469, US2005235569, US2005189780, US2004036234, US2003150168, GB2372529, GB2372529, GB2312460, GB2312460, FR3002882, FR2906189, FR2901187, EP2127854, EP1522445, EP1245421, EP0737829, DE102011011111, DE102011011111, CN103660867, CN103660867, CN102398500, CN102398500,

Abstract:
Source: US5493814A A weatherstrip assembly for an automotive vehicle including a glass run channel formed to shape and provided with a rigid decorative covering. Additionally, a belt weatherstrip is provided which includes a linear portion and an integrally extending tail portion, wherein the tail portion includes a rounded periphery and a substantially flat inner wall which abuts the glass run channel upon attachment.

0) DE29607664U1 – VEHICLE DOOR FAHRZEUGTUER

39) Family number: 17727942 (DE29607664U1) © PatBase

Title: Vehicle door

Priority: DE19962007664U 19960417

Family:

Publication number	Publication date	Application number	Application date
DE29607664 U1	19960718	DE19962007664U	19960417

Probable Assignee: SOMMER ALLIBERT LIGNOTOCK GMBH

Assignee(s):(std): SOMMER ALLIBERT LIGNOTOCK GMBH

Assignee(s): SOMMER ALLIBERT LIGNOTOCK GMBH 60388 FRANKFURT DE

International class (IPC 8–9): B60J5/04 B60R13/02 (Advanced/Invention); B60R13/08 (Advanced/Non–invention)

International class (IPC 1–7): B60J5/00 B60J5/04 B60R13/02 B60R21/20

CPC: B60J5/0455 B60R13/0243 B60R13/0892

European class: B60J5/04E7 B60R13/02D2 L60R13/08N

Classification Explorer

Forward Citations: WO06032315, US8047602, US5904002, DE19848633, DE19848633, DE19738853, DE19730241, DE19717908, DE19712266, DE19712266, DE10326154, DE102013207627, DE102007042418, DE102006020952, DE102005014570, DE102004046240, DE102004034073, DE10133420, DE10060632, DE10018186,

Abstract:
Source: DE29607664U1 (Claim 1) 1. Fahrzeugtuer, bestehend aus einem Tueraussenblech als Bestandteil der Fahrzeugkarosserie, einemAggregattraeger zur Aufnahme von Funktionselementen, einer dekorativen Innenverkleidungsschaleund einer bewegbaren Fensterscheibe, wobei der Aggregattraeger das Tuerinnere in einen Tuerhohlraumzum Tueraussenblech hin und einen Funktionsraum zur Innenverkleidungsschale hin unterteiltund die Fensterscheibe im Tuerhohlraum angeordnet ist,dadurch gekennzeichnet,dass Aggregattraeger (11), Funktionselemente (5', 12 J, Innenverkleidungsschale (4), Fensterscheibe (3) und deren Fuehrungselemente (17) eine m odulare Einbaueinheit mit folgender Merkmalskombinationbilden: gross fl aechiger, den gesamten Funktionsraum ab– 0 deckender Aggregattraeger (11) mit integriertenBefestigungselementen fuer die Innenverkleidungsschale (4), bestehend aus einem formsteifen Faserverbundwerksto f f mit durch die Fasereinbettung vergroesserter innerer Reibung und erhoehter Schlagzaehigkeit,umlaufende, dem Umriss des Aggregattraegers (11) folgende auswechselbare linienfoermige Dichtung,die zum Tueraussenblech (2) hin angeordnet ist und den Funktionsraum zum Tuerhohlraum hin feuchtig– 0 keitsabsperrend abdichtet,Anordnung aller Funktionselemente (5 ',12) mit Ausnahme der Fensterscheibe (3) und deren Fuehrungselemente(17) in nap fae hnlichen vertieften Ausformungen (5", 1 2 ') des Aggregattraegers (11)5 in dem von diesem und der Innenverkleidungsscha– le (4) umschlossenen Funktionsraum, wobei die napfaehnlichen Vertiefungen (5", 12') flaechenversteifendausgeformt sind.

Machine translation: (Claim 1) 1. Vehicle door, consisting of a door external sheet metal as a component of the vehicle body, one aggregate carrier for the admission of functional elements, a decorative Innenverkleidungsschaleund of of a movable windowpane, whereby the aggregate carrier the door inside is arranged in one door cavity to the door external sheet metal and a functional region to the inside paneling bowl unterteiltund the windowpane in the door cavity, by the fact characterized that aggregate carrier (11), functional elements (5 ', 12 J, inside paneling bowl (4), windowpane (3) and their guiing devices (17) an m odulare installation unit with the following characteristic combination forming: largely flat steel bar more aechiger, the entire functional region off 0 covering aggregate carrier (11) with integrating fastening parts for the inside paneling bowl (4), consisting of a form–rigid Faserverbundwerksto f f also by the fiber imbedding of increased internal friction and increased impact strength, circulating, outlined the aggregate carrier (the 11) following replaceable linienfoermige seal, which is arranged to the door external sheet metal (2) and which functional region seals to the door cavity damp industrial union 0 keitsabsperrend, arrangement of all functional elements (5 “, 12) with exception of the windowpane (3) and their guiing devices (17) into nap fae hnlichen deepened forming out (5 ", 1 2”) of the aggregate carrier (11) 5 in of this and the Innenverkleidungsscha le (4) umschlossenen functional region, whereby the cup–similar recesses (5 ", 12 ') are surface–reinforce–formed out.

0) DE29506596U1 – DOOR OR FLAP HINGE FOR MOTOR VEHICLES TUER– ODE...

40) Family number: 16920250 (DE29506596U1) © PatBase

Title: Door or flap hinge for motor vehicles

Priority: DE19952006596U 19950419

Family:

Publication number	Publication date	Application number	Application date
DE29506596 U1	19960814	DE19952006596U	19950419

Probable Assignee: SCHARWAECHTER GMBH CO KG

Assignee(s):(std)**:** SCHARWAECHTER GMBH CO KG

Assignee(s): ED SCHARWAECHTER GMBH AND CO KG 42855 REMSCHEID ; ED SCHARWAECHTER GMBH AND CO KG 42855 REMSCHEID DE

International class (IPC 8–9): E05D5/06 E05D5/12 (Advanced/Invention)

International class (IPC 1–7): B60J5/00 B62D25/12 E05D5/00 E05D5/02 E05D5/10 E05D7/00

CPC: E05D5/062 E05D5/12 E05Y2900/531

European class: E05D5/06A E05D5/12 P05Y900/531

Classification Explorer

Abstract:
Source: DE29506596U1 (Claim 1) 14 49 DED.Scharwaechter GmbH Co. K G. Hohenhagener Strasse 26 – 28 42809 K emscheidTuer–oder Klap p e nscharnier fuer Kraftwagen? –??? ANSPRUEC H E: 1) Tuer–oder Klappenschamier fuer Kraftwagen, bestehend aus einer ersten ander Fahrzeugkarosserie anzuschlagenden und einer zweiten an der Tuere oderKlappe anzuschlagenden Scharnierhaelfte sowie einem die beiden Scharnierhaelften u m eine Scharnierachse schwenkbar miteinander verbindenden, einoder mehrteiligen Scharnierstift, dessen eine, insbesondere die karosserieseitiganzuschlagende Scharnierhaelfte, derart in einer Mulde des den durch die Klappe oder Tuere zu verschliessenden Ausschnittes der Fahrzeugkarosseriebegrenzenden Teiles, Tuersaeule oder Karosserieholm, angeordnet ist, dass auch die Scharnierachse dem Konturverlauf des den durch die Klappeoder Tuere zu verschliessenden Ausschnitt der Fahrzeugkarosserie begrenzenden Teiles gegenueber versenkt angeordnet istdadurch gekennzeichnet, dassdie eine Scharnierhaelfte durch ein lediglich einseitig offenes, einen Ausschnittin dem durch die Klappe oder Tuere zu verschliessenden Ausschnitt ¦ der Fahrzeugkarosserie begrenzenden Teil, Tuersaeule oder Karosserieholm,verschliessendes Blechformteil gebildet und die andere, tuer–oder klappenseitig anzuschlagende Scharnierhaelfte vermittels eines in Scharnierstiftstummelunterteilten Scharnierstiftes an einander gegenueberliegenden Wandungsbereichen der einen Scharnierhaelfte gelagert ist.

Machine translation: (Claim 1) 14 49 DED.Scharwaechter GmbH and Co. K G. Hohenhagener Street 26–28 42 809 K emscheid door or flap pe nscharnier for cars ? –? ANSPRUEC HE: 1) door or flap hinge for motor vehicles, consisting of a first other vehicle body to the beating and a second or flap on the door to sweeping Scharnierhaelfte and a two Scharnierhaelften a hinge pivotally connecting, single–or multi–part hinge pin whose one, especially the body side to beating Scharnierhaelfte, so in a depression of the through the door or doors to be closed cutout of the vehicle body panels marginal parts, Tuersaeule or chassis beam is arranged so that the hinge axis located to the contour of the door or through the door to be closed section of the vehicle body limiting part sunk opposite istdadurch marked a Scharnierhaelfte dassdie by only one side open, one Ausschnittin the through the door or doors to be closed section | of the vehicle body bounding part, Tuersaeule or body Holm, seal sheet metal part is formed and the other door or flip another to striking Scharnierhaelfte means of an in hinge pin stub Divided hinge pin stored at each opposite wall regions is the one Scharnierhaelfte.

0) US5826440A – CONSTRUCTION MACHINE

41) Family number: 11104004 (US5826440A) © PatBase

Title: CONSTRUCTION MACHINE

Priority: JP19960160701 19960530 JP19960160703 19960530

Family:

Publication number	Publication date	Application number	Application date
DE69727096 D1	20040212	DE19976027096	19970528
DE69727096 T2	20040701	DE19976027096T	19970528
EP0810110 A2	19971203	EP19970303613	19970528
EP0810110 A3	19991222	EP19970303613	19970528
EP0810110 B1	20040107	EP19970303613	19970528
JP3264832 B2	20020311	JP19960160701	19960530
JP3320980 B2	20020903	JP19960160703	19960530
JP9315138 A2	19971209	JP19960160703	19960530
JP9315143 A2	19971209	JP19960160701	19960530
US5826440 A	19981027	US19970862923	19970527

Probable Assignee: KOBE SEIKO SHO KK

Assignee(s):(std)**:** KOBE STEEL LTD ; YUTANI JUKO KK

Assignee(s): KOBELCO CONSTRUCTION MACHINERY CO LTD ; YUTANI HEAVY IND LTD ; KABUSHIKI KAISHA KOBE SEIKO SHO ; KABUSHIKI KAISHA KOBE SEIKO SHO KOBE STEEL LTD ; KOBE SEIKO SHO KK ; KOBE SEIKO SHO KOBE STEEL LTD KK

Inventor(s):(std)**:** AOKI HIDEAKI ; FUJII ATSUO ; FUJII TOKUO ; OKADA AKIRA ; OKADA MAKOTO

Designated states: DE FR GB IT

International class (IPC 8–9)**:** B60H1/00 B60H1/32 B60J1/00 B60J10/02 (Advanced/Invention); B60H1/00 B60H1/32 B60J1/00 B60J10/02 (Core/Invention)

International class (IPC 1–7)**:** B60H1/00 B60H1/32 B60J1/00 B60J10/02

CPC: Y10S62/16 B60H1/3233 B60H1/00378 B60H2001/00235

European class: B60H1/00H3 B60H1/32D

US class: 296/190 62/239 62/285 62/DIG.16

Classification Explorer

Cited documents: US5362118 A, US5184474 A, US4982583 A, US4732011 A, US4658598 A, US4608834 A, US4201064 A, US4098093 A, US3983715 A, US3555846 A, JPS63195016, JP9086151 A2, JP63195016 A2, JP6106963 A2, JP6106962 A2, JP5074919 A2, JP3047287 A2, EP0119906 A1, DE3901511 A1, DE3531045 A1,

Forward Citations: WO11161258, US9316338, US9272603, US9248773, US8720628, US7523804, US7367611, US7353906, US7134519, US7069736, US6058903, US6044656, US2014090913, US2013186125, US2011243700, US2007144725, US2007144724, US2007108796, US2004194488, TWI523783, JP5051755, JP4681522, JP2008307930, JP2008080871, JP2007308030, EP2599652, CN103129345, BE1019386, AU2012258463,

Abstract:
Source: US5826440A In an air conditioner for conditioning the air present within a cabin, a cooler unit and a condenser for liquefying a gaseous refrigerant by forced cooling are arranged integrally on the upper surface of the cabin ceiling. The outer periphery of the cooler unit and that of the condenser are covered with a cover. Further, for the discharge of drain from the cooler unit, drain pipes are disposed on both front and rear sides of the cabin. The space in the narrow cabin can be fully utilized effectively.

0) US2003218356A – MOTOR VEHICLE DOOR MODULE

42) Family number: 29995399 (US2003218356A) © PatBase

Title: MOTOR VEHICLE DOOR MODULE

Priority: US19960018783P 19960531 US19960023929P 19960814 US19960739681 19961029 WO1997US09594 19970530 US20030413878 20030415 US19990288602 19990408 US19970799199 19970213

Family:

Publication number	Publication date	Application number	Application date
AU199734758 A1	19980105	AU19970034758	19970530
CA2256735 AA	19981130	CA19972256735	19970530
DE19781793 T	19990527	DE19971081793T	19970530
DE19781793 T1	19990527	DE19971081793T	19970530
EP0901420 A1	19990317	EP19970931026	19970530
GB2328911 A1	19990310	GB19980025996	19970530
GB2328911 B2	20000913	GB19980025996	19970530
GB9825996 A0	19990120	GB19980025996	19970530
JP2001503696 T2	20010321	JP19970543061T	19970530
TW353052 B	19990221	TW19970111603	19970813
US2003218356 AA	20031127	US20030413878	20030415
US5904002 A	19990518	US19970799199	19970213
US6546674 BA	20030415	US19990288602	19990408
WO9745283 A1	19971204	WO1997US09594	19970530

Probable Assignee: INT AUTOMOTIVE COMPONENTS GROUP NORTH AMERICA INC

Assignee(s):(std): CANNON CARTER S ; DIMIG STEVEN J ; EMERLING DAVID M ; LEAR CORP ; MORRISON GERALD O ; LESHAN KIMBERLY C

Assignee(s): LEAR CORP SOUTHFIELD MICH US ; JPMORGAN CHASE BANK NA GENERAL ADMINISTRATIVE AGENT AS ; LEAR CORPORATIONUS ; BANK OF NEW YORK MELLON COLLATERAL AGENT AS ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; GENERAL ELECTRIC CAPITAL AGENT CORP AS ; INT AUTOMOTIVE COMPONENTS GROUP LLC ; INT AUTOMOTIVE COMPONENTS GROUP NORTH AMERICA INC ; JPMORGAN CHASE BANK NA ; JPMORGAN CHASE BANK NA GENERAL ADMINISTRATIVE AGEN

Inventor(s):(std): DAVID M EMERLING ; CARTER S CANNON ; MORRISON GERALD O ; LESHAN KIMBERLY C ; EMERLING DAVID M ; DIMIG STEVEN J ; CANNON CARTER S ; MORRISON GERALD ; LESHAN KIMBERLEY C ; STEVEN J DIMIG ; KIMBERLY C LESHAN ; GERALD O MORRISON

Inventor(s): GERALD MORRISON ; KIMBERLEY C LESHAN

Agent(s): MACRAE AND CO

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN YU

International class (IPC 8–9): B60J1/17 B60J5/00 B60J5/04 B60R13/02 (Advanced/Invention); B60J5/00 (Advanced/Non–invention); B60J5/00 B60J5/04 (Core/Invention); B60J5/04 (Core/Non–invention)

International class (IPC 1–7): B60J1/17 B60J5/00 B60J5/04 B60R13/02 E06B3/30

CPC: B60J5/04 E05B77/34 B60J5/0416 B60J5/0406 B60J5/0411 B60J5/0418

European class: B60J5/04B5 B60J5/04C B60J5/04D4 B60J5/04D5

US class: 296/146.1 296/146.100P 296/146.7 49/502 49/503

Classification Explorer

Cited documents: WO9628314 A1, WO9403341 A1, WO9205011 A1, US6139088 A, US5822927 A, US5820191 A, US5802770 A, US5762394 A, US5716044 A, US5667868 A, US5623785 A, US5617676 A, US5603548 A, US5595415 A, US5584144 A, US5580119 A, US5573297 A, US5570922 A, US5555677 A, US5548930 A, US5536060 A, US5505024 A, US5484221 A, US5469668 A, US5469662 A, US5446999 A, US5417470 A, US5408785 A, US5398453 A, US5386674 A, US5379553 A, US5355629 A, US5351443 A, US5325632 A, US5308138 A, US5308129 A, US5234237 A, US5233790 A, US5233758 A, US5226259 A, US5180004 A, US5169204 A, US5163248 A, US5127191 A, US5111620 A, US5095659 A, US5095655 A, US5094034 A, US5092647 A, US5090158 A, US5083832 A, US5067281 A, US5060711 A, US5056264 A, US5050351 A, US5050350 A, US5048234 A, US5040334 A, US5033236 A, US4991351 A, US4986029 A, US4984389 A, US4974365 A, US4974363 A, US4969680 A, US4964630 A, US4945682 A, US4943109 A, US4941258 A, US4934099 A, US4924630 A, US4920697 A, US4917433 A, US4908988 A, US4882842 A, US4866883 A, US4800648 A, US4648208 A, US4306381 A, EP0712746 A1, EP0495712 A1, DE3402135 A1, DE29607664 U1, DE2960766,

Forward Citations: WO9842527, WO12162810, WO11000338, WO09029412, WO07111878, WO07111788, WO07111787, WO07111786, WO07111785, WO07111782, WO07107668, WO07107668, WO06127643, WO06127643, WO06082261, WO04108481, WO04098934, WO04062968, WO04012951, WO03093063, WO0132456, WO0132456, WO0023294, US9731582, US9623729, US9555695, US9132721, US8985674, US8776438, US8763308, US8562064, US8348330, US8196974, US8029041, US7992347, US7938472, US7877932, US7854466, US7797882, US7766414, US7753435, US7708313, US7677640, US7661743, US7572401, US7384091, US7363750, US7347026, US7198319, US7191493, US7149554, US7059659, US7032955, US6991278, US6983978, US6969108, US6929309, US6929308, US6910303, US6892496, US6862846, US6857688, US6854785, US6843085, US6838027, US6823628, US6793181, US6792719, US6767049, US6725606, US6723263, US6672650, US6656397, US6640500, US6616216, US6615546, US6615475, US6571516, US6565142, US6530251, US6493919, US6453615, US6428081, US6422640, US6417452, US6393767, US6390533, US6381906, US6378251, US6367865, US6364346, US6189267, US6158789, US6112470, US6076882, US2016107510, US2016001642, US2015336447, US2013169002, US2013033066, US2011089713, US2009289470, US2009256391, US2009134658, US2009056230, US2009033104, US2009008959, US2008276541, US2008258495, US2008258494, US2008217961, US2008129084, US2008098655, US2007271849, US2007267889, US2007246968, US2007245780, US2007222257, US2007222256, US2007222249, US2007220812, US2007220811, US2007131003, US2007079568, US2007077374, US2007065648, US2007056219, US2007001479, US2006265962, US2006265961, US2006264554, US2006220414, US2006156631, US2006086049, US2006026799, US2006017306, US2006012218, US2006000149, US2005268560, US2005258665, US2005253416, US2005188647, US2005166462, US2005150166, US2005082712, US2005066696, US2005046230, US2004226223, US2004178659, US2004144142, US2004041438, US2004012226, US2003177796, US2003057731, US2003001408, US2002095869, US2001028131, KR101628949, JP2006527115, JP2005527422, FR2900100, FR2898563, FR2839022, FR2825665, FR2811941, FR2779995, ES2152800, EP2377704, EP2377703, EP1842708, EP1842705, EP1758748, EP1685993, EP1636068, EP1621383, EP1314598, EP1291211, EP1138535, EP1087080, EP1060918, EP0967097, DE19964450, DE19964450, DE19942644, DE19942644, DE19924615, DE19848633, DE10359265, DE10358043, DE10325024, DE102013201557, DE102011120982, DE102006002436, DE102006002436, DE10133421, DE10133421, DE10110753, DE10031850,

Abstract:
Source: US2003218356A A door assembly is disclosed for a motor vehicle. The door assembly comprises a molded door panel having a first side and a second side. The first side of the door panel is adapted to face into a passenger compartment of the motor vehicle. The second side of the door panel supports a belt line reinforcement, a lock and catch assembly, and a window lift assembly. The door assembly of the present invention is adapted for joining with a door exterior.

0) US5773375A – THERMALLY STABLE ACOUSTICAL INSULATION

43) Family number: 29372855 (US5773375A) © PatBase

Title: THERMALLY STABLE ACOUSTICAL INSULATION

Priority: US19960655047 19960529 US19980065326 19980423 WO1996US15707 19960930

Family:

Publication number	Publication date	Application number	Application date
AU199672506 A1	19980105	AU19960072506	19960930
CA2254840 AA	19981117	CA19962254840	19960930
CA2254840 C	20061121	CA19962254840	19960930
DE69608577 D1	20000629	DE19966008577	19960930
DE69608577 T2	20010118	DE19966008577T	19960930
EP0902853 A1	19990324	EP19960933976	19960930
EP0902853 B1	20000524	EP19960933976	19960930
ES2146905 T3	20000816	ES19960933976T	19960930
JP2000511244 T2	20000829	JP19970542291T	19960930
JP3911548 B2	20070509	JP19970542291T	19960930
KR100409061 B1	20040324	KR19980709625	19981127
KR20000016058 A	20000325	KR19980709625	19960930
US5773375 A	19980630	US19960655047	19960529
US5961904 A	19991005	US19980065326	19980423
WO9745581 A1	19971204	WO1996US15707	19960930

Probable Assignee: MINNESOTA MINING AND MFG

Assignee(s):(std)**:** MINNESOTA MINING AND MFG

Assignee(s): MINNESOTA MINING AND MFG CO ; MINNESOTA MINING AND MFG CO SAINT PAUL ; SWAN MICHAEL D ; EBBENS RUTH A ; MINNESOTA MINING AND MANUFACTURING CO ; MINNESOTA MINING AND MANUFACTURING COMPANY

Inventor(s):(std)**:** EBBENS A ; MICHAEL D SWAN ; RUTH A EBBENS ; SWAN D ; SWAN MICHAEL D ; EBBENS RUTH A

Agent(s): SMART AND BIGGAR

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CN CU CZ DE DK EE ES FI FR GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG UZ VN

International class (IPC 8–9)**:** B32B27/32 B32B5/02 B60J5/00 B60J5/04 B60R11/00 B60R11/02 B60R13/08 C08K5/134 D01F6/06 D04H1/42 D04H1/54 D04H1/56 D04H3/00 D04H3/16 G10K11/162 (Advanced/Invention); B32B27/32 B32B5/02 B60R11/00 B60R11/02 D04H1/42 D04H1/54 D04H1/56 D04H3/16 (Advanced/Non–invention); B32B27/32 B32B5/02 B60J5/00 B60J5/04 B60R13/08 C08K5/00 D01F6/04 D04H1/42 D04H1/54 D04H1/56 D04H3/00 D04H3/16 G10K11/00 (Core/Invention); B60R11/00 B60R11/02 (Core/Non–invention)

International class (IPC 1–7)**:** B29D28/00 B32B27/32 B32B5/02 B60R13/08 D01F6/06 D04H1/00 D04H1/42 D04H1/54 D04H1/56 D04H13/00 D04H3/16

CPC: Y10S428/903 B60J5/0418 B60J5/00 B60R11/0217 B60R13/0815 B60R13/083 B60R13/0838 B60R13/0892 B60R2011/0021 C08K5/1345 Y10T442/614 Y10T442/615 Y10T442/619 Y10T442/659 Y10T442/674 D04H1/56 D04H1/4382 D04H1/4291

European class: B60J5/00 B60J5/04D5 B60R13/08B B60R13/08N C08K5/134B D04H1/42 D04H1/56B L60R11/00P1H2 L60R11/02D L60R13/08B2 L60R13/08C

US class: 19/296 264/103 264/211.12 428/903 442/340 442/341 442/344 442/381 442/394

Classification Explorer

Cited documents:

WO9609428 A1, USRE31885 E, US5480466 A, US5459291 A, US5437922 A, US5393831 A, US5298694 A, US5288791 A, US5286929 A, US5271883 A, US5149468 A, US5145727 A, US5122593 A, US5118722 A, US5116662 A, US5073436 A, US5064578 A, US4992327 A, US4981747 A, US4933229 A, US4883549 A, US4873132 A, US4865791 A, US4859512 A, US4851283 A, US4837067 A, US4828910 A, US4813948 A, US4753843 A, US4707398 A, US4696848 A, US4604302 A, US4588635 A, US4588627 A, US4568581 A, US4551378 A, US4469732 A, US4420526 A, US4420520 A, US4379192 A, US4328279 A, US4323534 A, US4196245 A, US4118531 A, US4069026 A, US4067836 A, US4048364 A, US4041203 A, US4038228 A, US4011067 A, US3870567 A, US3849241 A, US3773605 A, US3546063 A, US3382305 A, US31885 A, JP2271607 A2, EP0607946 A1, EP0484592 A2, EP0375781 A1, EP0309285 A2, DE2543781 A1,

Forward Citations: WO9944817, WO16125646, WO15199998, WO11002056, WO0209089, USH2086, US9540827, US9416547, US9334659, US9217253, US9186608, US9073061, US8938925, US8798421, US8534738, US8507075, US8496088, US8361912, US8341911, US8341910, US8057881, US7918313, US7878301, US7837009, US7820573, US7810281, US7749595, US7727915, US7618907, US7591346, US7500541, US7402537, US7380865, US7320739, US7282252, US7226656, US6893711, US6833177, US6756332, US6720068, US6669265, US6572723, US6490828, US2011154762, US2011096395, US2011016792, US2010095846, US2009077896, US2009068913, US2009019825, US2008274274, US2008166939, US2008121461, US2008081163, US2008073146, US2008050565, US2008022645, US2007298218, US2006237130, US2006128246, US2006065482, US2006037630, US2005200159, US2005153151, US2005026527, US2004231915, US2004231914, US2004185679, US2004185226, US2004185225, US2004185204, US2004131836, US2004077247, US2004053003, US2004023586, US2004023014, US2004013855, US2003134557, US2003112673, US2003098529, US2003008592, US2002137421, KR100574764, JP2011025915, JP2007302243, JP2004504517, FR2847866, EP2889407, EP2784203, EP1426239, EP1365388, EP1321554, DE19840050, DE19840050, DE102009006295, DE10163576, CZ303670, CH693409, AU2007202503, AU2007202503,

Abstract:
Source: US5773375A There is provided thermally stabilized polypropylene melt−blown microfiber acoustical insulation web which has a resistance to thermal degradation at a temperature of 135 DEG C. for at least 10 days. The polypropylene has a thermal stabilizer uniformly distributed within the melt−blown microfiber polymer which polymer when produced is subject to thermal and/or catalytic degradation in the absence of significant levels of thermal stabilizer or antioxidant.

0) US6070931A – ASSEMBLY STRUCTURE OF AN AUTOMOTIVE DOOR HARNES...

44) Family number: 14944849 (US6070931A) © PatBase

Title: Assembly structure of an automotive door harness

Priority: JP19960176688 19960705

Family:

Publication number	Publication date	Application number	Application date
DE19728708 A1	19980108	DE19971028708	19970704
DE19728708 C2	20010222	DE19971028708	19970704
JP10016673 A2	19980120	JP19960176688	19960705
JP3339309 B2	20021028	JP19960176688	19960705
US6070931 A	20000606	US19970887284	19970702

Probable Assignee: YAZAKI CORP

Assignee(s):(std)**:** YAZAKI CORP

Assignee(s): YAZAKI CORP TOKIO TOKYO ; YAZAKI CORP TOKIO TOKYO JP

Inventor(s):(std)**:** SERIZAWA YASUYOSHI ; YAMAGUCHI NOBORU

Inventor(s): YAMAGUCHI NOBORU SHIZUOKA JP ; SERIZAWA YASUYOSHI SUSONO SHIZUOKA JP

International class (IPC 8–9)**:** B60J5/04 B60R16/02 H02G11/00 H02G3/38 (Advanced/Invention); B60J5/04 B60R16/02 H02G11/00 H02G3/36 (Core/Invention)

International class (IPC 1–7)**:** B60J5/00 B60J5/04 B60R16/02 H02G11/00 H02G3/04 H02G3/26 H02G3/28 H02G3/30 H02G3/38

CPC: B60R16/0215

European class: B60R16/02C2

US class: 296/146.7

Classification Explorer

Cited documents: US5716044 A, US4862011 A, US4653799 A, JP833166, JP8132991, JP8033166 A2, JP5923224, JP59023224 A2, JP58113566 U1, JP51069090 U, JP341079, JP3041079 A2,

Forward Citations: WO09021707, WO02083444, US8231168, US7905537, US7042738, US6747208, US6492592, US6245997, US2017050589, US2010264687, US2007148994, US2004017648, JP5065930, JP2009194989, FR2842958, EP1312510, DE19959429, DE19858689, DE10204597, DE10204597,

Abstract:
Source: US6070931A Between the door panel and the door trim is installed a protector, through which a wiring harness is inserted. The wiring harness has a connector arranged at one end of the protector. The protector is slidably held along a slide guide on a door trim mounted on a car door. The slide guide for the protector has a base plate portion having a guide slot and legs for fixing the slide guide to the door trim. The protector is situated on the back side of the base plate portion along the legs and is retracted into the protector receiving portion through the cut hole in the door trim. The slide guide is provided with a temporary locking portion to temporarily hold the protector when the door is in a subassembly state.

0) US5924872A – STRUCTURE FOR ASSEMBLING CIRCUIT BODIES ON DOOR...

45) Family number: 11640548 (US5924872A) © PatBase

Title: Structure for assembling circuit bodies on doors

Priority: JP19960185135 19960715

Family:

Publication number	Publication date	Application number	Application date
DE19730343 A1	19980129	DE19971030343	19970715
DE19730343 B4	20041111	DE19971030343	19970715
JP10029476 A2	19980203	JP19960185135	19960715
JP3293744 B2	20020617	JP19960185135	19960715
US5924872 A	19990720	US19970893554	19970711

Probable Assignee: YAZAKI CORP

Assignee(s):(std)**:** YAZAKI CORP

Assignee(s): YAZAKI CORP TOKIO TOKYO ; YAZAKI CORP TOKIO TOKYO JP

Inventor(s):(std)**:** NISHITANI KEIZO ; TAKIGUCHI SHUJI

Inventor(s): TAKIGUCHI SHUJI SHIZUOKA JP ; NISHITANI KEIZO SHIZUOKA JP

International class (IPC 8–9): B60J5/04 B60R16/02 H02G3/38 (Advanced/Invention); B60J5/04 B60R16/02 H02G3/36 (Core/Invention)

International class (IPC 1–7): B60J5/04 B60R16/02 H01R13/73 H01R33/00 H02G3/28 H02G3/38

CPC: B60R16/0215

European class: B60R16/02C2

US class: 439/246 439/34 439/77

Classification Explorer

Cited documents: US5527187 A, US4869670 A, US4848829 A, US4824164 A, JP8128699 A2, JP6051013 U, JP2126957 U, EP0535712 A2, EP0534659 A2, DE3740593 A1, DE19515569 A1,

Forward Citations: WO04035336, WO0020256, US8196974, US6792719, US2009033104, US2005235574, US2005013459, EP1291211, EP1216886, EP1104720, DE19845280, DE19845280,

Abstract:
Source: US5924872A A door panel (12) is provided with auxiliaries (2–4) and their respective connectors (7–9), and a door trim (5), which is joined to the door panel, is provided with a circuit body (6) having connectors (30–32) fittable to the connectors (7–9). The door trim (5) has a rib (34) projecting thereon, and end conductors (16a,...) of the circuit body (6) extend onto the rib (34) to constitute connectors (30–32). The rib (34) is deflectable. The door trim (5) has a circuit body expand and contract member (47) through which the circuit body (6) extends to an automobile body side. The troublesome wiring work of a circuit body on the door panel side is obviated.

46) Family number: 29435569 (US6039390A) © PatBase

Title: CHROMOGENIC WINDOW ASSEMBLY CONSTRUCTION AND OTHER CHROMOGENIC DEVICES

Priority: US19960699940 19960820 US19970914876 19970820 US20000493263 20000128 WO1997US14558 19970820 US20000595315 20000616

Family:

Publication number	Publication date	Application number	Application date
AU199741533 A1	19980306	AU19970041533	19970820
EP0923754 A1	19990623	EP19970939446	19970820
US6039390 A	20000321	US19970914876	19970820
US6493128 BA	20021210	US20000493263	20000128
US6528782 BA	20030304	US20000595315	20000616
WO9808137 A1	19980226	WO1997US14558	19970820

Probable Assignee: SCHOTT DONNELLY LLC SMART GLASS SOLUTIONS

Assignee(s):(std)**:** DONNELLY CORP ; SCHOTT DONNELLY LLC

Assignee(s): SCHOTT DONNELLY LLC SMART GLASS SOLUTIONS

Inventor(s):(std)**:** AGRAWAL ANOOP ; BAERTELIN CARL ; BAERTLEIN CARL ; FISCHER DOUGLAS ALAN ; HANSEN STEPHAN ; LECOMPTE BOB ; LECOMPTE ROBERT STEVEN ; TONAZZI JUAN CARLOS LOPEZ ; ZHANG RAYMOND

Inventor(s): ROBERT STEVEN LECOMPTE ; JUAN CARLOS LOPEZ TONAZZI ; DOUGLAS ALAN FISCHER ; CARL BAERTLEIN ; ANOOP AGRAWAL

Agent(s): E F WELLINGTON AND CO

Designated states: AT AU BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): B60J3/04 E06B9/24 G02F1/01 G02F1/13 G02F1/133 G02F1/153 G02F1/163 (Advanced/Invention); G02F1/01 G02F1/153 G02F1/163 (Advanced/Non–invention); B60J3/00 E06B9/24 G02F1/13 (Core/Invention); G02F1/01 (Core/Non–invention)

International class (IPC 1–7): B60J1/20 B60J3/04 E06B3/66 E06B9/24 G01J3/50 G02F1/1335 G02F1/15 G02F1/153 G02F1/17

CPC: B32B17/10467 B32B17/10513 B32B17/10036 Y02T10/90 B60J3/04 E06B9/24 E06B2009/2464 G02F1/011 G02F1/13318 G02F1/133308 G02F1/133382 G02F1/153 G02F1/163

European class: B32B17/10C4 B60J3/04 E06B9/24 G02F1/1333E G02F1/133D2 P06B9/24F S02F1/01C S02F1/1333V S02F1/133D2 S02F1/153 S02F1/163 Y02T10/88

US class: 244/129.3 250/205 250/226 296/211 296/215 349/16 359/241 359/265 359/275 52/171.3 52/204.5 52/786.1

Classification Explorer

Cited documents: WO9624882 A1, USRE30835 E, US6099283 A, US5763050 A, US5733483 A, US5659417 A, US5604626 A, US5589958 A, US5524955 A, US5472643 A, US5466037 A, US5434371 A, US5424898 A, US5424865 A, US5384578 A, US5377037 A, US5261722 A, US5241411 A, US5239406 A, US5233461 A, US5220317 A, US5148014 A, US5142407 A, US5122647 A, US5076674 A, US5076673 A, US5073012 A, US5066112 A, US5042923 A, US5009044 A, US5007718 A, US4893908 A, US4799768 A, US4793690 A, US4750816 A, US4749261 A, US4712879 A, US4702566 A, US4671619 A, US4652090 A, US4475031 A, US4338000 A, US4306769 A, US4268126 A, US4217391 A, US4174152 A, US4164365 A, US3807832 A, US3521941 A, US30835 A, JP63106731 A2, JP63106730 A2, JP59032521 A2, JP58020729 A2, JP32521, JP282021, JP1282021 A2, JP1215621 A2, GB2268595 A1, GB2055942 A1, EP0238164 A1, DE3816069 A1, CA698472 A,

Forward Citations: WO15050946, WO14065823, WO11133830, WO11017588, WO10149284, WO10124279, WO09030406, WO09030406, WO09019033, WO09002350, WO08029982, WO05008010, WO05008010, WO02071138, WO0077564, WO0013060, WO0013060, USD585365,

US9797141, US9765522, US9736028, US9733478, US9728920, US9694740, US9690162, US9671665, US9664976, US9645465, US9638978, US9618819, US9539883, US9521726, US9517721, US9511650, US9504133, US9482922, US9482399, US9470828, US9454055, US9436055, US9436054, US9423664, US9365281, US9360747, US9353938, US9351381, US9341912, US9341909, US9335565, US9333728, US9268157, US9217582, US9215780, US9200452, US9170465, US9146438, US9146437, US9146012, US9130097, US9128346, US9126474, US9116370, US9110345, US9081246, US9057535, US9042085, US9016630, US8988757, US8967538, US8921751, US8891153, US8885242, US8884203, US8882185, US8827347, US8801220, US8787590, US8781676, US8779340, US8749870, US8736943, US8729446, US8678483, US8668989, US8662577, US8632034, US8611828, US8601745, US8599466, US8514476, US8432600, US8417127, US8406632, US8380393, US8375657, US8362700, US8344912, US8322073, US8292228, US8280398, US8256940, US8248680, US8219217, US8200390, US8115984, US8076870, US8070902, US8064120, US8048529, US7980031, US7976189, US7970172, US7954281, US7893890, US7826113, US7822490, US7782519, US7776436, US7773284, US7772966, US7771103, US7738155, US7677495, US7610910, US7607266, US7542809, US7535614, US7505136, US7429827, US7405523, US7355161, US7348896, US7330102, US7327226, US7300166, US7278241, US7275716, US7266930, US7266204, US7254927, US7245205, US7196477, US7185464, US7149026, US7085609, US7082736, US7082726, US7080874, US7021006, US7012729, US6995892, US6980092, US6969920, US6965813, US6957520, US6939612, US6937380, US6906842, US6871902, US6802162, US6795226, US6786610, US6783099, US6759945, US6753047, US6750823, US6750414, US6640142, US6630813, US6622812, US6536828, US6491338, US6466298, US6465963, US6459460, US6428216, US6407712, US6405105, US6369935, US6305123, US6294258, US6199933, US6166698, US2017008449, US2016214467, US2016130816, US2016109778, US2016011483, US2015369434, US2015362143, US2015286057, US2015153639, US2015122474, US2015103389, US2015098121, US2015073204, US2014320947, US2014146382, US2014118810, US2013193721, US2013158790, US2013147239, US2013043347, US2013038093, US2012280537, US2012203601, US2012153684, US2012113623, US2012004523, US2011266953, US2011214712, US2011209319, US2011199976, US2011187984, US2011122554, US2011046810, US2011030290, US2011029194, US2010315717, US2010224838, US2010175819, US2010119242, US2010119233, US2010079844, US2010031590, US2009323160, US2009302783, US2009293386, US2009279004, US2009204269, US2009176101, US2009168185, US2009121970, US2009115922, US2009102387, US2009085497, US2008315163, US2008310007, US2008259433, US2008239451, US2008239422, US2008234893, US2008230653, US2008224034, US2008218434, US2008104903, US2008074724, US2008061236, US2008055731, US2008048101, US2008042012, US2007291383, US2007271848, US2007236228, US2007179239, US2007177161, US2007170870, US2007075876, US2007068096, US2007067048, US2007064446, US2007058114, US2007019273, US2006226949, US2006097855, US2006011309, US2005268629, US2005248285, US2005233125, US2005231527, US2005231336, US2005200934, US2005200933, US2005184561, US2005168794, US2005152218, US2005135101, US2005063036, US2005023413, US2005005542, US2005000174, US2004247883, US2004246607, US2004241385, US2004240029, US2004233537, US2004100676, US2004042223, US2004028881, US2004020754, US2004012762, US2003233172, US2003227664, US2003227663, US2003192991, US2003079422, US2003057733, US2002158805, US2002140884, RU2621282, JP6206539, GB2448041, GB2448041, FR3023510, FR2909316, FR2821937, EP2956322, EP2841671, EP2799927, EP2517332, EP2517332, EP2080648, EP1762885, EP1297380, EP1295169, EP1110123, DE102008045552, CN103991366, CN103163706, CN102947133, CN102472890, CN102472890, AU765097, AU2010279364,

Abstract:
Source: US6039390A A chromogenic window panel assembly, and a chromogenic skylight each includes an outer panel and a chromogenic member having an optical property which varies according to an applied signal. A chromogenic light pipe includes a light harvesting member and a chromogenic member having an optical property which varies according to an applied signal. A chromogenic vehicle sunroof, a chromogenic aircraft window assembly, and a chromogenic window assembly each includes a panel having a particular panel contour corresponding to a surface contour and a chromogenic panel having an optical property which varies according to an applied signal. A chromogenic block includes two panels and a chromogenic panel having an optical property which varies according to an applied signal.

0) US6688043B – DEVICE AND METHOD FOR SECURING A COMPONENT TO A...

47) Family number: 12798820 (US6688043B) © PatBase

Title: Device and method for securing a component to a support part in a vehicle

Priority: DE19971020867 19970506 DE19985013047 19980425 WO1998DE01183 19980425

Family:

Publication number	Publication date	Application number	Application date
BRPI9808745 A	20000711	BR1998PI08745	19980425
CN1077197 C	20020102	CN19988004827	19980425
CN1255182 A	20000531	CN19988004827	19980425
DE19720867 C1	19980903	DE19971020867	19970506
DE59813047 D1	20051013	DE19985013047	19980425
EP0983417 A1	20000308	EP19980924046	19980425
EP0983417 B1	20050907	EP19980924046	19980425
ES2247696 T3	20060301	ES19980924046T	19980425
JP2001523313 T2	20011120	JP19980547604T	19980425
US6688043 BA	20040210	US20000423127	20000224
WO9850658 A1	19981112	WO1998DE01183	19980425

Probable Assignee: BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG

Assignee(s):(std)**:** FEDER ROLAND ; WALTZ UWE ; WEBER HORST ; HOFMANN GERHARD ; BROSE FAHRZEUGTEILE

Assignee(s): BROSE FAHRZEUGTEILE GMBH ; BROSE FAHRZEUGTEILE GMBH AND CO ; BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG COBURG ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCH ; BROSE FAHRZEUGTEILE GMBH AND CO KG COBURG 96450 CO ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCHAFT COBURG ; BROSE FAHRZEUGTEILE GMBH AND CO KG COBURG 96450 COBURG DE

Inventor(s):(std)**:** WEBER HORST ; WALTZ UWE ; FEDER ROLAND ; HOFMANN GERHARD

Inventor(s): FEDER ROLAND 96479 WEITRAMSDORF DE ; GERHARD HOFMANN ; WALTZ UWE 96049 BAMBERG DE ; UWE WALTZ ; ROLAND FEDER ; HORST WEBER

Designated states: AT BE BR CH CN CY DE DK ES FI FR GB GR IE IT JP KR LU MC MX NL PT SE US

International class(IPC 8–9)**:** B21D39/03 B23P11/00 B60J1/17 B60J5/04 B60R13/02 B62D27/00 E05F11/38 (Advanced/Invention)

International class(IPC 1–7)**:** B21D39/03 B23P11/00 B60J1/17 B60J5/04 B60R13/02 B62D27/00 E05F11/38

CPC: B21D39/032 B21J15/046 B21K25/00

European class: B21D39/03B1 B21J15/04C B21K25/00

US class: 49/352 49/502

Classification Explorer

Cited documents: US5826376 A, US5333411 A, US5273385 A, US5120151 A, US4843204 A, US4819380 A, US4759653 A, US4700508 A, US4694610 A, US4663886 A, US4658502 A, US4658302 A, US4584753 A, US4502247 A, US4483100 A, US4168595 A, US4109417 A, US3670405 A, US2321755 A, FR2758850 A1, EP0584442 A1, EP0478501 A1, EP0155619 A2, EP0155618 A2, DE4417279 A1, DE4131098 A1, DE19528467 A1,

Forward Citations: WO10121883, WO0120114, US9511652, US9425731, US9233599, US9166521, US9151102, US8936164, US8505258, US8438893, US8377566, US8114524, US8042302, US7905057, US7882658, US7784220, US7774986, US7757438, US7741800, US7631458, US7610720, US7441374, US7424788, US6874279, US2013168488, US2012325032, US2012291356, US2012007386, US2011185639, US2011023367, US2011008573, US2009205387, US2009151146, US2009051193, US2009044456, US2009019775, US2009000203, US2008272726, US2008222962, US2008187427, US2008098655, US2007251149, US2007231062, US2007056220,

US2007044382, US2007017159, US2007001477, US2006196122, US2006143985, US2006064938, US2004194391, US2004163320, FR2899500, EP2664393, EP2664393, EP2611635, EP1218209, DE20214987, DE202004010211, DE19859706, DE10230284, DE102015213927, DE10200984, DE10200984, DE102009002491, DE102009002491, DE102008056487, DE10160242, DE10151659, CN104185713,

Abstract:
Source: US6688043B A device for connecting component parts, such as entrainment members, to a support element of a motor vehicle door, wherein the support element has at least one protrusion therein for the positive−locking hold of the entrainment members. In one embodiment two protrusions are provided forming guide rails for entrainment members of a window pane of a cable or Bowden cable window lifter. The two protrusions are imprinted in a support plate whereby the guide rails and the support plate are preferably a one−piece structural unit of a motor vehicle door.

48) Family number: 14291426 (US6226927B) © PatBase

Title: Automobile vehicle door provided with a multicomponent module a part of which forms an acoustic cavity

Priority: FR19970004844 19970418

Family:

Publication number	Publication date	Application number	Application date
FR2762263 A1	19981023	FR19970004844	19970418
FR2762263 B1	19990716	FR19970004844	19970418
US6226927 BA	20010508	US19980056918	19980408

Probable Assignee: MERITOR LIGHT VEHICLE SYSTEMS FRANCE

Assignee(s):(std): MERITOR LIGHT VEHICLE SYS LTD ; ROCKWELL LVS

Assignee(s): ROCKWELL LIGHT VEHICLE SYSTEMS FRANCE EN ABREGE ROCKWELL LVS FRANCE ; MERITOR LIGHT VEHICLE SYSTEMS FRANCE ; MERITOR LIGHT VEHICLE SYSTEMS FRANCE TOUR GAN CEDE ; ROCKWELL LIGHT VEHICLE SYSTEMS FRANCE EN ABREGE RO

Inventor(s):(std): ARQUEVAUX LAURENT ; BERTOLINI CARLO

Inventor(s): LAURENT ARQUEVAUX ; CARLO BERTOLINI

Agent(s): CABINET LAVOIX

International class (IPC 8–9): B60R11/02 H04R1/28 H04R5/02 (Advanced/Invention); B60R11/00 (Advanced/Non–invention); B60R11/02 H04R1/28 H04R5/02 (Core/Invention); B60R11/00 (Core/Non–invention)

International class (IPC 1–7): B60J5/00 B60J5/04 B60R11/02

CPC: B60R11/0217 B60R2011/0021 B60R2011/0043 B60R2011/0052 H04R1/2819 H04R5/02 H04R2499/13

European class: B60R11/02D H04R1/28N5L H04R5/02 L60R11/00P1H2 L60R11/00R2 L60R11/00R4A1 T04R499/13

US class: 181/150 49/502

Classification Explorer

Cited documents: US4928788 A, JP63287296 A2, JP63287296, JP61132443 A2, JP61132443, JP6006885 A2, JP6006885, JP4022296 A2, JP4022296, DE3027286 A1,

Forward Citations: WO15185818, WO14006290, WO10042312, US9549243, US8820471, US8280073, US8144894, US8126187, US8103024, US8045744, US7913455, US7490438, US7468654, US7364218, US7340066, US7313247, US7237825, US7198315, US7131685, US7066527, US7055887, US7051438, US7036868, US6979048, US6929307, US6676195, US6672650, US6614913, US6612641, US6447047, US6409250, US6367202, US2013146389, US2011216917, US2011142251, US2010092006, US2009310812, US2009110210, US2008211136, US2008012389, US2007261911, US2007110264, US2007062123, US2006285717, US2006220415, US2006214468, US2006091696, US2006066446, US2006061134, US2005248181, US2005212324, US2005184555, US2005073171, US2005052051, US2004134711, US2004123446, FR3021908, FR3016555, FR2992914, FR2796902, ES2325346, DK178000,

Abstract:
Source: US6226927B An automobile vehicle door (1) includes a box structure (3), a module (4) including an acoustic chamber (6) supporting a speaker (7) adapted to be applied on the periphery of an opening (5) formed on the inner side of the box structure and an inner trim panel (8) covering the module. The module is fixed in a watertight manner on the surround of the opening (5) of the box structure, a peripheral rib (12) is provided for defining in the module a volume of air V excited by the rear wave of the speaker, and a vent is provided in the trim panel for returning the rear wave of the speaker in the direction toward a listening zone. With this arrangement, the door is provided with an acoustic enclosure of the "bass reflex" type having a very good acoustic efficiency in respect of the bass frequencies with no risk of entry of water into the compartment of the vehicle through the vent (17).

0) FR2769874A – MOVABLE TOP COVER FOR LOAD TRANSPORTER TRANSPOR...

49) Family number: 14320441 (FR2769874A) © PatBase

Title: Movable top cover for load transporter transporting e.g. grain in bulk

Priority: FR19970013415 19971022

Family:

Publication number	Publication date	Application number	Application date
FR2769874 A1	19990423	FR19970013415	19971022
FR2769874 B1	19991224	FR19970013415	19971022

Probable Assignee: KAISER

Assignee(s):(std)**:** KAISER

Inventor(s):(std)**:** WEISS DANIEL

International class (IPC 1–7)**:** B60J7/04 B62D33/02

CPC: B60J7/041

European class: B60J7/04B

Classification Explorer

Cited documents: US2912277, US2843422, FR1297701,

Forward Citations: FR2850090, FR2837806, FR2821341, CN102275487,

Abstract:
The top cover is formed from two roof panels (3,4) which can be moved along the length of the transporter on the upper edges of the side walls (37,38) of the hopper (2). They are moved using a drive and displacement system (15) that is operated externally. The panels and hopper include transverse stabilizing rollers. These rollers together with end stops allow a large separation of the two roof panels to provide a large space for top loading.

0) US2002017805A – COMPOSITE ENERGY ABSORBER

50) Family number: 28169626 (US2002017805A) © PatBase

Title: COMPOSITE ENERGY ABSORBER

Priority:

JP20020511954	20010412	JP20030505043	20020619	US19990328196	19990608
US19980018666	19980204	JP20090068720	20020619	JP20120152126	20020619
US20050044573	20050127	US20040014418	20041216	US20040760760	20040120
US20010884813	20010619	US20010004739	20011204	US20000617691	20000717
US20000499205	20000207	US20050170806	20050630	WO1998US24590	19981118
WO2001US11905	20010412	WO2005US44896	20051212	US20070691516	20070327
WO2006US02879	20060126	US20080033159	20080219	WO2005US44896	20070706
WO2002US19527	20020619	WO2000US15509	20000607	WO2002US37005	20021119
WO2001US11905	20030117				

Family:

Publication number	Publication date	Application number	Application date
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AT466718 E	20100515	AT20010924956T	20010412
AU200055964 A5	20001228	AU20000055964D	20000607
AU2001251561 AA	20020130	AU20010251561	20010412
AU200151561 A5	20020130	AU20010051561	20010412
AU2002344847 AA	20030102	AU20020344847	20020619
AU2002344847 BB	20040812	AU20020344847	20020619
AU2002356971 AA	20030617	AU20020356971	20021119
AU2005316696 AA	20060622	AU20050316696	20051212
CA2318447 AA	20000718	CA19982318447	19981118
CA2394109 AA	20011206	CA20002394109	20000607
CA2394109 C	20060207	CA20002394109	20000607
CA2472045 AA	20040628	CA20022472045	20021119
CA2590695 AA	20070614	CA20052590695	20051212
CA2590695 C	20110712	CA20052590695	20051212
CA2596081 AA	20070726	CA20062596081	20060126
CN1254357 C	20060503	CN20018012998	20010412
CN1443108 A	20030917	CN20018012998	20010412
CN1479680 A	20040303	CN20028002283	20020619
DE60041716 D1	20090416	DE20006041716	20000607
DE60142069 D1	20100617	DE20016042069	20010412
EP1053131 A1	20001122	EP19980960254	19981118
EP1053131 A4	20010124	EP19980960254	19981118
EP1263628 A1	20021211	EP20000941232	20000607
EP1263628 A4	20030502	EP20000941232	20000607
EP1263628 B1	20090304	EP20000941232	20000607
EP1332031 A1	20030806	EP20010924956	20010412
EP1332031 A4	20070509	EP20010924956	20010412
EP1332031 B1	20100505	EP20010924956	20010412
EP1332031 B2	20160615	EP20010924956	20010412
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IN00372CN2003 A	20050408	IN2003CN00372	20030310	
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US2005161982 AA	20050728	US20040014418	20041216	
US2005269837 AA	20051208	US20050170806	20050630	
US2006066134 AB	20060330	US20040760760	20040120	
US2007187961 AA	20070816	US20070691516	20070327	
US2008174152 AA	20080724	US20080033159	20080219	
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US6199942 BA	20010313	US19990328196	19990608	
US6199942 C1	20160108	US19990328196	19990608	
US6247745 BA	20010619	US20000499205	20000207	
US6679967 BA	20040120	US20000617691	20000717	
US6682128 BB	20040127	US20010884813	20010619	
US6752450 BB	20040622	US20010004739	20011204	
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US7377577 BB	20080527	US20050170806	20050630	
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WO06065731 A3	20070419	WO2005US44896	20051212	
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WO06081394 A3	20110519	WO2006US02879	20060126	
WO9939939 A1	19990812	WO1998US24590	19981118	

Probable Assignee: OAKWOOD ENERGY MANAGEMENT INC

Assignee(s):(std)**:** AUDI RICHARD FRANCOIS ; CARROLL PHILLIP PATRICK III ; OAKWOOD ENERGY MANAGEMENT INC ; OAKWOOD ENERGY MAN INC ; CORMIER JOEL MATTHEW ; OAKWOOD ENERGY MANAEMENT INC ; SMITH DONALD S ; SMITH DONALD SCOTT

Assignee(s): GRENIER PAUL GERARD ; M S OAKWOOD ENERGY MANAGEMENT INC ; CORMIER JOEL M ; CARROLL PHILLIP PATRICK

Inventor(s):(std)**:** AUDI RICHARD ; AUDI RICHARD F ; BOUCHER MATTHEW J ; BROOKS RYAN J ; BROOKS RYAN JOHNSON ; CARROLL P P III ; CARROLL PHILLIP ; CARROLL PHILLIP P III ; COLE PAUL E ; CORMIER JOEL ; CORMIER JOEL M ; CORMIER P P CARROLL III J M ; GRENIER PAUL G ; JM CORMIER ; JOEL MATTHEW CORMIER ; LEDFORD SPENCER C ; MELINN MICHAEL E ; ROSSI MICHAEL A ; ROSSI MICHAEL ANTHONY ; SMITH D S ; SMITH DONALD ; SMITH DONALD S ; SMITH DONALD SCOTT ; DS SMITH ; PHILLIP PATRICK III CARROLL ; PP CARROLL III ; PP CARROLL OAO ; OAO P P CARROLL ; CORMIER JOEL MATTHEW ; CORMIER J M ; CARROLL PHILLIP PATRICK III ; CARROLL PHILLIP PATRICK ; GRENIER PAUL GERARD ; CARROLL III PHILLIP PATRICK ; AUDI RICHARD FRANCOIS

Inventor(s): PHILLIP PATRICK CARROLL III ; D S SMITH ; CARROLL PHILLIP III ; J M CORMIER ; RICHARD FRANCOIS AUDI ; PP CARROLL III JM CORMIER ; GRENIER PAUL ; P P CARROLL OAO ; P P CARROLL III ; P P CARROLL III J M CORMIER ; DONALD SCOTT SMITH ; CARROLL PHILLIP PIII

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; PEGASUS IP; IP SOLVED ANZ PTY LTD; SMART AND BIGGAR; BORDEN LADNER GERVAIS LLP; W P THOMPSON AND CO; WP THOMPSON; MANLEY NICHOLAS MICHAEL; BROOKS KUSHMAN PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A62B1/22 B29C45/00 B29C51/00 B29C51/08 B29C51/10 B29C51/12 B29C51/14 B29C51/30 B29C51/44 B32B3/28 B60J7/00 B60K37/00 B60N2/42 B60N2/68 B60N2/70 B60R13/02 B60R13/08 B60R19/18 B60R19/26 B60R19/32 B60R21/02 B60R21/04 B60R21/045 B60R99/00 B62D21/15 B62D25/00 B62D25/04 B62D25/06 B65D81/02 B65D81/07 B65D81/107 B65D81/127 F16F1/376 F16F7/00 F16F7/12 (Advanced/Invention); B29C51/00 B29C51/14 B29L31/58 B60R13/02 B60R19/18 B60R19/34 B60R21/02 B60R21/045 B62D25/10 (Advanced/Non–invention); A62B1/00 B29C51/00 B29C51/08 B29C51/10 B29C51/26 B29C51/30 B32B3/28 B60J7/00 B60N2/42 B60N2/68 B60N2/70 B60R13/08 B60R19/18 B60R19/24 B60R21/04 B62D21/15 B62D25/06 B65D81/05 F16F1/36 F16F7/12 (Core/Invention); B29C51/14 B60R19/18 B60R19/24 B60R21/02 (Core/Non–invention)

International class (IPC 1–7): A62B A62B035/04 A62B35/04 B29C45/00 B29C45/14 B29C51/00 B29C51/08 B29C51/10 B29C51/12 B29C51/14 B29C51/30 B29C51/44 B32B1/00 B60J7/00 B60K37/00 B60N2/00 B60R13/02 B60R19/18 B60R21/04 B62D21/15 B62D25/00 B62D25/04 B62D25/06 F16F7/00 F16F7/12

CPC: B60R2021/0421 B60R2021/0442 B60R13/0225 B60R2013/0287 B32B2307/56 B32B2605/003 B65D81/127 A62B1/22 B29C51/10 B29C51/14 B29C2791/006 B29C2791/007 B29L2009/00 B29L2031/3044 B29L2031/721 B32B3/28 B60R19/34 B60R2019/1866 F16F1/376 B60N2/4249 B60N2/68 B60N2/70 B60R21/02 B60R21/04 B60R21/0428 B60R21/045 B60R2021/0435 B62D21/15 F16F7/12 F16F7/121 Y10T156/1044 B29C51/12 B60R19/18 B60R2019/1846 B60R2021/0414

European class: A62B1/22 B29C51/10 B29C51/12 B32B3/28 B60N2/42F B60N2/68 B60N2/70 B60R13/02C2 B60R19/18 B60R21/04 B60R21/04F B62D21/15 B65D81/127 F16F1/376 F16F7/12 F16F7/12A L29C51/14 L29C791/00E4 L29C791/00E6 L29L31/30C L29L31/721 L29L9/00 L60R13/02R L60R19/18 L60R19/18B3C L60R19/18E1 L60R19/34 L60R21/02 L60R21/045 L60R21/04C L60R21/04D L60R21/04F L60R21/04P L60R21/04R

US class: 156/222 188/371 188/371S 188/377 264/511 264/516 264/550 264/553 280/751 280/751S 293/132 293/133 293/134 293/134P 296/187.03 296/187.030P 296/187.05 296/189 296/214 296/214P 296/39.1

Cited documents: WO0074978 A1, WO0031434 A1, WO0001525 A1, US7377577 BB, US7360822 BB, US7163244 BB, US6863322 BB, US6832810 BB, US6779835 BB, US6752450 BB, US6715592 BB, US6682128 BB, US6679967 BA, US6679544 BA, US6652021 BA, US6582639 BB, US6550850 BB, US6547280 BA, US6443513 BA, US6368702 BA, US6315339 BA, US6247745 BA, US6231072 BA, US6204209 BA, US6199942 BA, US61769100, US6099055 A, US6085878 A, US6017084 A, US6012764 A, US6000738 A, US5972477 A, US5958326 A, US5950835 A, US5932316 A, US5836641 A, US5799991 A, US5769003 A, US5762392 A, US5759594 A, US5746419 A, US5732801 A, US5731062 A, US5727826 A, US5700545 A, US5660426 A, US5636866 A, US5595003 A, US5573272 A, US5549327 A, US5518802 A, US5500037 A, US5493791 A, US5484186 A, US5435619 A, US5431463 A, US5425561 A, US5399406 A, US5382051 A, US5364682 A, US5306066 A, US5282288 A, US5258585 A, US5244745 A, US5225213 A, US5198175 A, US5192157 A, US5165990 A, US5150935 A, US5141279 A, US5033593 A, US5030501 A, US4969680 A, US4951986 A, US4941701 A, US4925224 A, US4909661 A, US4904008 A, US4890877 A, US4858606 A, US4856833 A, US4844213 A, US4838606 A, US4739762 A, US4720261 A, US4670995 A, US4666130 A, US4635981 A, US4631221 A, US4601367 A, US4578296 A, US4460205 A, US4413856 A, US4352484 A, US4321989 A, US4190276 A, US4154489 A, US4154469 A, US4029350 A, US4022505 A, US3997207 A, US3985256 A, US3933387 A, US3926463 A, US3871636 A, US3853221 A, US3837991 A, US3782767 A, US3684235 A, US3575781 A, US32819699, US32819699, US3231454 A, US3195686 A, US3142599 A, US3088539 A, US3018015 A, US2349907 A, US2346161 A, US2275575 A, US2007182170 AA, US2007176439 AA, US2007114772 AA, US2006066134 AB, US2005040679 AA, US2005029837 AA, US2004197547 AA, US2004178662 AA, US2002190506 AA, US2002185795 AA, US2002070584 AA, US2002013686 AA, US1866698 A, US1340715 A, US09018666, JP9300446 A2, JP9150692 A2, JP8085404 A2, JP6190909 A2, JP56131849 A2, JP55001068 U1, JP55001068 U, JP5245919 A2, JP48104989 U1, JP48104989 U, JP2080824 A2, JP2005514560 T2, JP11348699 A2, JP11129840 A2, JP10202666 A2, GB2198074 A1, GB2106477 A1, GB1021902 A, EP56131849, EP56131849, EP56131849, EP1263628 B1, EP0950828 A1, EP0863056 A1, EP0412846 A2, EP0087306 A2, DE863056 A, DE19947245 A1,

Forward Citations: WO17085254, WO17060592, WO16174431, WO16073021, WO15125646, WO15036973, WO14193511, WO14193511, WO13128252, WO13090879, WO11153309, WO11153309, WO11149049, WO11141562, WO11109291, WO11109291, WO10121296, WO10053709, WO09093564, WO09088720, WO08055395, WO07130005, WO06100362, WO06083731, WO06065868, WO06065731, WO06053763, WO06032315, WO05116478, WO05116478, WO05061285, WO05012043, WO04022313, WO03047916, WO02102460, WO0206033, USRE44893, USRE44364, USRE41186, USD793625, USD733972, USD683079, USD679058, USD528340, USD527565, USD526151, USD525815, USD476097, US9771109, US9751485, US9743701, US9739053, US9731669, US9644699, US9622534, US9622533, US9609910, US9603407, US9572389, US9554617, US9528280, US9516910, US9505362, US9469264, US9463761, US9462847, US9462843, US9457760, US9457738, US9428130, US9420843, US9417038, US9415708, US9394702, US9386812, US9332799, US9320311, US9302638, US9283895, US9259995, US9254433, US9249853, US9221404, US9186674, US9180456, US9168532, US9079476, US9067550, US9033399, US9022161, US8998298, US8973957, US8961733, US8943708, US8927088, US8915536, US8899563, US8876094, US8870259, US8864216, US8807303, US8726424, US8715835, US8690237, US8635789, US8602183, US8579362, US8544952, US8474583, US8465087, US8454053, US8424629, US8393678, US8393674, US8366186, US8356857, US8356836, US8348313, US8348032, US8313129, US8307932, US8287011, US8267428, US8262131, US8235459, US8215686, US8214928, US8201671, US8196979, US8186748, US8181420, US8123263, US8118347, US8091286, US8056962, US8052198, US8047602, US8042198, US8029041, US8016331, US7993725, US7992905, US7992354, US7938463, US7934587, US7874343, US7866716, US7865969, US7857610, US7823959, US7810602, US7806448, US7780224, US7779975, US7766386, US7753408, US7713372, US7669378, US7628444, US7625036, US7625023, US7618082, US7513566, US7513528, US7513344, US7497506, US7494165, US7458102, US7441806, US7401824, US7384095, US7377577, US7360822, US7357444, US7338075, US7338038, US7326466, US7306081, US7299925, US7278667, US7255759, US7249662, US7228723, US7222897, US7201434, US7178647, US7175230, US7163243, US7157034, US7140478, US7140478, US7131674, US7111713, US7111713, US7097234, US7090289, US7073831, US7040658, US7017978, US6994384, US6976729, US6942076, US6938936, US6908143, US6907391, US6893011, US6866313, US6854783, US6820925, US6808206, US6783156, US6779835, US6758507, US6752450, US6733064, US6715592, US6698820, US6698819, US6682128, US6681907, US6679967, US6679544, US6669251, US6644727, US6598365, US6588557, US6571663, US6568743, US6561580, US6557929, US6550850, US6547294, US6547280, US6523888,

US6474687, US6406081, US6406079, US2017101788, US2017050593, US2016303937, US2016255898, US2016178006, US2016129870, US2016076619, US2016059678, US2016052367, US2016003318, US2015257471, US2015167255, US2015107005, US2015075931, US2014373256, US2014272317, US2014216852, US2014206079, US2014206041, US2014205518, US2014138176, US2014034435, US2014027964, US2013320708, US2013224448, US2013154307, US2013152287, US2013152286, US2013125415, US2013094953, US2013086733, US2013043101, US2013025037, US2012235443, US2012207964, US2012152674, US2012055605, US2011316307, US2011309653, US2011300399, US2011250384, US2011248522, US2011221235, US2011217442, US2011214932, US2011210579, US2011210570, US2011204608, US2011199268, US2011187134, US2011171420, US2011169310, US2011148086, US2011132799, US2011113559, US2011109105, US2011101714, US2011057348, US2011018247, US2010326782, US2010314810, US2010308621, US2010263304, US2010259036, US2010258988, US2010253114, US2010244469, US2010140979, US2010117395, US2010109353, US2010102580, US2010101006, US2010015387, US2010007046, US2010006257, US2009272612, US2009256391, US2009250953, US2009230589, US2009206618, US2009167037, US2009165392, US2009152883, US2009072585, US2009045637, US2009026807, US2009001764, US2008303311, US2008257671, US2008236094, US2008174152, US2008160227, US2008157564, US2008124557, US2008111386, US2008093831, US2008035442, US2008012384, US2008012364, US2008012279, US2007272375, US2007267261, US2007262612, US2007228746, US2007228745, US2007210615, US2007194606, US2007187961, US2007187960, US2007182216, US2007182145, US2007147956, US2007114772, US2007108778, US2007080562, US2007046073, US2006284431, US2006261611, US2006257332, US2006255604, US2006220290, US2006210736, US2006170253, US2006168706, US2006162278, US2006131902, US2006131777, US2006125250, US2006076202, US2006075693, US2006066134, US2006041751, US2006032715, US2006011434, US2006001278, US2005285418, US2005280287, US2005269837, US2005269823, US2005230205, US2005212328, US2005204456, US2005200062, US2005133324, US2005127718, US2005104414, US2005097004, US2005057053, US2005040679, US2004250340, US2004198123, US2004197547, US2004189050, US2004178662, US2004178552, US2004174025, US2004145195, US2004140658, US2004124622, US2004066048, US2004062904, US2004041319, US2003232591, US2003193179, US2003127841, US2003124304, US2003102628, US2003075953, US2002013686, KR101546922, KR101438641, KR100859201, KR100790024, JP4798667, JP4282377, JP2015125646, JP2015071422, JP2012527255, JP2012233583, JP2011247385, JP2011184024, JP2010270863, JP2010235002, JP2009172230, JP2008522903, JP2008505341, JP2007528970, JP2007524535, JP2007076478, JP2004359114, FR3042162, FR2946608, FR2936756, FR2903358, FR2883348, FR2870802, FR2863982, ES2522798, EP2967165, EP2434174, EP2434174, EP2262666, EP1842730, EP1827911, EP1788273, EP1788273, EP1773628, EP1716019, EP1655179, EP1655173, EP1555109, EP1404549, EP1393988, EP1332031, EP1332031, EP1332031, EP1104722, DE112011100760, DE10358819, DE102014218731, DE102014218730, DE102010016160, DE102008060421, DE102006047369, DE102006047369, DE102004056148, CN105793602, CN105711527, CN105462170, CN105034996, CN104918832, CN104325863, CN104203654, CN103978946, CN103144592, CN103144592, CN102910134, CN102202942, CN102050271, CN101999051, CN101850754, AU2010239133, AU2002240451,

Abstract:
Source: US2002017805A A composite modular energy absorbing assembly with one or more gamma structures 100 that are interposed with one or more delta structures 200. The gamma structures have a base 12' and a plurality of recesses 16' defined therewithin. The recesses 16' have at least one wall 20' extending from the associated base 12'. At least some of the recesses 16' are oriented such that their walls are substantially parallel to a major incident component of an impacting force. The walls 20' collapse. The delta structures 200 have a lattice 210 of interconnected strands which intersect to define a plurality of cells 220. The plane of at least some of these cells are substantially parallel to the impacting force. The lattice collapses during energy absorption. The composite assembly serves to decelerate an object that impacts thereupon in order to maximize energy absorption over a given distance. In alternate embodiments, stacking arrangements include: gamma structures alone; or delta structures alone.

0) US6007133A – TAILGATE ARRANGEMENT OF THE BODY OF A MOTOR VEH...

51) Family number: 18043217 (US6007133A) © PatBase

Title: TAILGATE ARRANGEMENT OF THE BODY OF A MOTOR VEHICLE AND REAR LAMP UNIT

Priority: DE19981005337 19980211 DE19981009348 19980305

Family:

Publication number	Publication date	Application number	Application date
BRPI9900444 A	20010320	BR1999PI00444	19990210
DE19809348 C1	19990826	DE19981009348	19980305
US6007133 A	19991228	US19990247805	19990211

Probable Assignee: WAGON AUTOMOTIVE GMBH

Assignee(s):(std)**:** WAGON AUTOMOTIVE GMBH

Inventor(s):(std)**:** GUNTHER HEIM ; HEIM GUNTHER ; JANZ JOACHIM ; ARMIN KLEIN ; JOACHIM JANZ ; KLEIN ARMIN

International class (IPC 8–9)**:** B60J10/08 B60J5/10 B60Q1/30 (Advanced/Invention); B60J10/00 B60J5/10 B60Q1/30 (Core/Invention)

International class (IPC 1–7)**:** B60J10/08 B60J5/10 B60Q1/30 B62D25/00 B62D25/08 B62D25/10 B62D25/12

CPC: B60J10/80 B60J5/101 B60J5/107 B60Q1/30

European class: B60J10/08 B60J5/10 B60J5/10C B60J5/10C5 B60Q1/30

US class: 296/146.9 296/56 362/549

Classification Explorer

Cited documents: US5851049 A, US5147106 A, US4994942 A, US4880267 A, EP0256399 A1, DE19702543 A1,

Forward Citations: WO12107660, US9399389, US9033406, US8967702, US8944487, US7871118, US7182384, US6959848, US6729682, US6334264, US2015258879, US2014028058, US2013241240, US2012042572, US2009294196, US2006006686, US2005006919, FR2971211, FR2922492, DE102008026502, DE102007052620, CN103354785, CN103354785,

Abstract:
Source: US6007133A Tailgate arrangement of a body of a motor vehicle, with a body opening (3), a tailgate (4) which is assigned to the body opening (3) and which closes it, at least one, preferably two rear lamp units (7) assigned to the body opening (3), a peripheral attachment flange (8) being provided bordering the body opening (3) and the attachment flange having a peripheral sealing profile (9), which is optionally composed of several sections, mounted on it for sealing against a sealing flange on the tailgate (4). This tailgate arrangement is simplified in terms of production engineering and installation technique by the edge of the body opening (3) in the area of the rear lamp units (7) being formed by the rear lamp units (7) themselves, specifically the corresponding sections of the attachment flange (8) for the sealing profile (9) being formed on the rear lamp units (7).

0) US2002063142A – EQUIPMENT TRANSPORTATION SYSTEM

52) Family number: 28193352 (US2002063142A) © PatBase

Title: EQUIPMENT TRANSPORTATION SYSTEM

Priority: US19980100808 19980619 US19990336887 19990618 US20010681287 20010209 US20010788299 20010216 US20050906436 20050219 WO1999US13804 19990618

Family:

Publication number	Publication date	Application number	Application date
AU199948254 A1	20000105	AU19990048254	19990618
AU199948254 A5	20000105	AU19990048254	19990618
EP1097051 A1	20010509	EP19990931830	19990618
US2002063142 AA	20020530	US20010788299	20010216
US2005145662 AA	20050707	US20050906436	20050219
US6042175 A	20000328	US19980100808	19980619
US6213539 BA	20010410	US19990336887	19990618
US6398290 BA	20020604	US20010681287	20010209
US6910609 BB	20050628	US20010788299	20010216
US6910609 C1	20091208	US20010788299	20010216
WO9965715 A1	19991223	WO1999US13804	19990618

Probable Assignee: LET S GO AERO INC

Assignee(s):(std)**:** DRABCZYK MATTHEW ; LET S GO AERO INC ; WILLIAMS MARTY

Inventor(s):(std)**:** DRABCZYK MATTHEW ; WILLIAMS MARTY

Inventor(s): MARTY WILLIAMS ; MATTHEW DRABCZYK

Agent(s): GLENN L WEBB; WEBB GLENN L; GLENN L

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): B60P3/07 B60R9/00 B62D63/06 (Advanced/Invention); B60P3/06 B60R9/00 B62D63/00 (Core/Invention)

International class (IPC 1–7): B60J1/00 B60J7/00 B60P7/02 B60R11/00 B60R9/00

CPC: B60R9/00 Y10S224/924 B60P3/07 B62D63/064

European class: B60P3/07 B60R9/00 B62D63/06C2

US class: 220/252 220/826 224/509 224/519 224/525 224/526 224/527 224/924 296/100.06 296/100.07 296/168 296/173 296/181 296/185.1

Classification Explorer

Cited documents: US6846140 BB, US6827531 BB, US6644901 BB, US6585465 BA, US6439814 BA, US6293451 BA, US6283537 BA, US6213539 BA, US6152341 A, US6089430 A, US6042175 A, US6039227 A, US6024402 A, US6019266 A, US6006973 A, US5881937 A, US5823724 A, US5806737 A, US5788135 A, US5749506 A, US5674033 A, US5655865 A, US5628598 A, US5570825 A, US5533848 A, US5497927 A, US5460304 A, US5409335 A, US5395020 A, US5378094 A, US5377886 A, US5271586 A, US5259711 A, US5188479 A, US5038983 A, US4969784 A, US4955771 A, US4943108 A, US4938399 A, US4850769 A, US4827742 A, US4815638 A, US4778092 A, US4739528 A, US4717298 A, US4671439 A, US4627658 A, US4593840 A, US4585915 A, US4420182 A, US4396324 A, US4248558 A, US3997720 A, US3977720 A, US3972500 A, US3877671 A, US3858744 A, US3831976 A, US3822798 A, US3643973 A, US3567063 A, US3528578 A, US3478995 A, US3317097 A, US3317076 A, US3288521 A, US3202332 A, US3069199 A, US3025998 A, US2911130 A, US2850025 A, US2739729 A, US2696139 A, US2663392 A, US1966022 A, US1849046 A, US1779159 A, US1035245 A, GB969374 A, GB689969 A, GB2142587 A1, FR679638 A, FR637820 A, FR599814 A, FR1146723 A, FI26681 A, DE2945274 A1,

Forward Citations: WO10101652, USD662444, USD594385, USD508606, USD507874, USD507208, USD464916, US9057195, US8884253, US8801349, US8794641, US8632119, US8585000, US8550757, US8539719, US8505932, US8505863, US8408853, US8376298, US8251326, US8250829, US8234832, US8186739, US8061572, US7976256, US7967369, US7967363, US7946643, US7874774, US7712762, US7677592, US7594787, US7547170, US7487895, US7390154, US7360801, US7281889, US7275779, US7175377, US7144070, US7070374, US7032956, US6994393, US6932412, US6749248, US6722727, US6695391, US6634701, US6634700, US6631941, US6601908, US6575523, US6575155, US6527336, US6491315, US6428079, US6409194, US6398290, US6296297, US6213539, US2017274829, US2013127125, US2013076062, US2013043414, US2013026780, US2012273538, US2011233358, US2011232222, US2010303538, US2010284737, US2010281793, US2010170185, US2009230718, US2009152314, US2009080995, US2008279649, US2008238066, US2008219795, US2008213061, US2008211289, US2008150317, US2008073937, US2008000940, US2007036628, US2006263163, US2006208454, US2006186159, US2006152040, US2006145461, US2006138803, US2006045648, US2006032859, US2005274761, US2005253445, US2005218150, US2005184553, US2005173941, US2005117991, US2005099025, US2005074308, US2005040197, US2004201247, US2004163525, US2004131440,

Abstract:
Source: US2002063142A A carrier system for transporting equipment, such as bicycles. The carrier of a preferred embodiment of the present invention includes a spine member that is capable of having equipment mounting hardware attached to it. This equipment mounting hardware includes a platform, a cargo box, bicycle mounting hardware, golf bag mounting hardware, a flexible cover, and other types of hardware.

0) US6595561B – CLOSURE, ESPECIALLY FOR VEHICLES

53) Family number: 11124793 (US6595561B) © PatBase

Title: CLOSURE, ESPECIALLY FOR VEHICLES

Priority: DE19981028289 19980625 DE19995001074 19990601 WO1999EP03789 19990601

Family:

Publication number	Publication date	Application number	Application date
AU199945040 A1	20000110	AU19990045040	19990601
AU199945040 A5	20000110	AU19990045040	19990601
AU746319 B2	20020418	AU19990045040	19990601
BRPI9912197 A	20010410	BR1999PI12197	19990601
CN1306598 A	20010801	CN19998007781	19990601
DE19828289 A1	20000113	DE19981028289	19980625
DE59901074 D1	20020502	DE19995001074	19990601
EP1088144 A1	20010404	EP19990927825	19990601
EP1088144 B1	20020327	EP19990927825	19990601
ES2171330 T3	20020901	ES19990927825T	19990601
JP2002519544 T2	20020702	JP20000556122T	19990601
KR20010071604 A	20010728	KR20007014799	19990601
PT1088144 T	20020930	PT19990927825T	19990601
US6595561 BA	20030722	US20000701410	20001128
WO9967490 A1	19991229	WO1999EP03789	19990601

Probable Assignee: HUF HULSBECK AND FURST GMBH AND CO KG

Assignee(s):(std): BARTHEL JOACHIM ; HUF HUELSBECK AND FUERST GMBH ; HUF HUELSBECK AND FURST GMBH AND C ; SZABLEWSKI PIOTR ; HUF HUSBECK AND FURST GMBH AND CO

Assignee(s): HUF HULSBECK AND FURST GMBH ; HUF HUELSBECK AND FURST GMBH AND CO KG ; HUF HULSBECK AND FURST GMBH AND CO KG ; HUF HUSBECK AND FURST GMBH AND CO KG ; HUF HUELSBECK AND FUERST GMBH AND CO KG

Inventor(s):(std): SZABLEWSKI P ; SZABLEWSKI PIOTR ; BARTHEL JOACHIM ; BARTHEL J

Inventor(s): J BARTHEL ; P SZABLEWSKI ; PIOTR SZABLEWSKI ; JOACHIM BARTHEL

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD

Designated states: AT AU BE BR CH CN CY DE DK ES FI FR GB GR IE IN IT JP KR LU MC NL PT SE US

International class (IPC 8–9): B60J1/18 E05B45/06 E05B65/12 E05B65/19 E05B81/06 E05B81/18 E05B83/16 (Advanced/Invention); B60J1/18 E05B45/06 E05B65/12 E05B65/19 E05B81/06 (Advanced/Non–invention); B60J1/18 E05B65/12 (Core/Invention); E05B45/00 (Core/Non–invention)

International class (IPC 1–7): B60J1/18 E05B65/19 E05C19/00

CPC: E05B81/18 E05B83/16 E05B45/06 E05B81/06 Y10T292/1083 Y10T292/1091 Y10T292/444 Y10T292/696 Y10T292/699 Y10T292/702

European class: E05B83/16 P05B45/06 P05B81/06

US class: 292/202 292/209 292/304 292/341.15 292/341.16 292/341.17

Classification Explorer

Cited documents: US5735557 A, US5457971 A, US5172945 A, US4893850 A, US4325239 A, US2796274 A, US2795450 A, US2779615 A, US2723552 A, US2533360 A, US2286740 A, US2031302 A, EP0789122 A1, EP0420684 A2, EP0361679 A1, EP0021743 A1, DE19505779 A1,

Forward Citations:

WO02068781, US8813590, US8453824, US7775072, US7409888, US2012080293, US2011308342, US2007204662, US2004108178, DE10258078, DE10258078, DE10258078, DE10109128,

Abstract:
Source: US6595561B The invention relates to a closure comprising a closing head (20) and a lock (10) which rest on the immobile or mobile part of a door, flap or such like. The closing head (20) has an undercut axial shoulder (26) which during coupling is engaged by a radially mobile blocking member (11) in the lock (10). The lock (10) further comprises a sensing member (12) and a restoring member (13) for the blocking member (11). To make the lock less prone to malfunctions the invention provides for the axially spring−loaded sensing member (12) to be used as a locking means for the radially spring−loaded blocking member (11). When the locking effect is actuated the blocking member (11) is held in a release position in relation to the closing head (20). When the closing head (20) is engaged the sensing member (12) carries out an axial movement which releases the lock so that the radial spring−loading can move the blocking member (11) into its blocked position. Actuation of the restoring member (13) results in a radial reverse movement of the blocking member (11), which activates the locking of the sensing member (12) and locks the blocking member (11) in its release position.

0) EP0983921A1 – IMPROVEMENTS TO VEHICLE–TRANSPORTING RAILWAY CA...

54) Family number: 11506711 (EP0983921A1) © PatBase

Title: Improvements to vehicle–transporting railway cars

Priority: CA19982246885 19980909 US19980145503 19980902

Family:

Publication number	Publication date	Application number	Application date
AU199945884 A1	20000316	AU19990045884	19990901
AU199945884 A5	20000316	AU19990045884	19990901
CA2246885 AA	20000302	CA19982246885	19980909
EP0983921 A1	20000308	EP19990116759	19990830

Probable Assignee: THRALL CAR MFG COMPANY

Assignee(s):(std)**:** THRALL CAR MFG CO ; THRALL CAR MFG COMPANY

Assignee(s): TRINITY RAIL GROUP LLC ; TRN BUSINESS TRUST ; TRINITY RAIL GROUP INC ; BLACK JAMES E JR ; ROBERTSON JAMES C ; SIMPSON JAMES M ; THRALL CAR MANUFACTURING COMPANY

Inventor(s):(std)**:** BLACK JAMES E JR ; ROBERTSON JAMES C ; SIMPSON JAMES M

Inventor(s): BLACK JAMES E ; JAMES C ROBERTSON ; JAMES E BLACK JR ; JAMES M SIMPSON

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MACRAE AND CO

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** B61D19/00 B61D3/18 (Advanced/Invention); B61D19/00 B61D3/00 (Core/Invention)

International class (IPC 1–7)**:** B60J5/10 B60P3/08 B61D19/00 B61D3/18 E05B17/08

CPC: B61D3/18 B61D3/187 B61D19/005

European class: B61D19/00C3 B61D3/18 B61D3/18C

Classification Explorer

Cited documents: US5765486 A, US4944234 A, US4936227 A, US4686909 A, US4667604 A,

Abstract:
Source: EP0983921A1 Improvements to vehicle–transporting railway cars comprising movable bridge plate supports which avoid interference with door clearance requirements, and improved end door lock, and a flexible deflector for decreasing air flow about the outer edges of the end doors. The movable bridge plate supports comprise a lower deck bridge plate support which is movable between a retractable position in which it can support the free end of the bridge plate connected to an adjacent car, and an extended position in which it may be pivotally connected to a bridge plate while spanning a door track. An upper deck bridge plate is provided which comprises a movable member and fixed member, with the movable member and fixed member in combination engaging opposite sides of one of a bridge plate for pivotal connection thereto. Each of the lower deck bridge plates includes a support member for engaging the free end of a bridge plate connected to an adjacent car, and includes a foot to support provided by the door track when in extended position. The improved lock includes lubrication conduits extending between external surfaces and lock pin apertures in top and bottom walls which are joined by a channel shaped side wall structure, and further includes circumferentional channels within the interior surfaces of the lock pin apertures to, dispose between pin engaging surfaces therein, for distribution of lubricant. The flexible deflector extends inward from each of the side walls where the outer edges of the end doors to decrease or inhibit air flow around the outer edges without contacting the end doors when in closed position. The bridge plate supports, lock, and deflectors all must be sufficiently strong and durable to withstand loads imposed during railway service over extended periods of years, without failure.

0) DE29922990U1 – SEALING PROFILE FROM ELASTIC MATERIALS DICHTUNG...

55) Family number: 17008913 (DE29922990U1) © PatBase

Title: Sealing profile from elastic materials

Priority: DE19992022990U 19991230

Family:

Publication number	Publication date	Application number	Application date
DE29922990 U1	20000531	DE19992022990U	19991230

Probable Assignee: BREIDENBACH HANNO

Assignee(s):(std)**:** BLAU DIETER ; BREIDENBACH HANNO

International class (IPC 8–9)**:** B60J10/00 B60J10/08 F16J15/02 F16J15/06 (Advanced/Invention); B60J10/00 F16J15/02 F16J15/06 (Core/Invention)

International class (IPC 1–7)**:** B60J10/00 B60J10/08 B60J9/00 B62D25/12 F16J15/10

CPC: F16J15/022 B60J10/16 B60J10/30 B60J10/80 F16J15/062

European class: B60J10/00C2 B60J10/00G B60J10/08 F16J15/02B2 F16J15/06C

Classification Explorer

Forward Citations: US7059611, DE20106758, CN104154231,

Abstract:
Source: DE29922990U1 (Claim 1) 1. Dichtungsprofil aus gummielastischen Materialien fuer die Abdichtung eines Spaltes zwischen zwei Bauteilen, wobei das erste Bauteil eine Aufnahmenut fuer das Dichtungsprofil aufweist, gegen welches das zweite Bauteil mit einer ebenen Flaeche in Arbeitsposition zur Anlage bestimmt ist,das Dichtungsprofil einen Hauptabschnitt (1) mit einem Profilfuss (5b) zur Halterung in der mit zwei Seitenwaenden begrenzten Aufnahmenut des ersten Bauteils und einen Kopfabschnitt (2) zur Anlage des zweiten Bauteils aufweist, der Hauptabschnitt (1) eine Leiste (5) mit einer Mitte–Laengsachse (9) aufweist, dadurch gekennzeichnet, dassdie Leiste (5) im Bereich des Kopfendes (8b) an den zwei gegenueberliegend angeordneten Seiten (27) der Leiste (5) zwei quer 2u der Mitte–Laengsachse (9) der Leiste (5) ausgerichtete Rippen (18, 19) aufweist, wobei die andere Rippe (18) L–foermig ausgebildet ist und mit ihrem einen Schenkel (20) mit dessen Kopfende (41) an der einen Seite (27) der Leiste (5) angeordnet ist und der andere Schenkel (17) der anderen Rippe (18) laengs zu der Mitte–Laengsachse (9) sich erstreckt, auf der dem Fussende (8a) abgewandten Stirnseite (28) der Leiste (5) am Kopfende (8b) der Leiste (5) ein Steg (14) parallel zu der Mitte–Laengsachse (9) der Leiste (5) und senkrecht zu der einen Rippe (19) angeordnet ist,die der Mitte–Laengsachse (9) der Leiste (5) zugewandten Seiten des Stegs (14) und des anderen Schenkels (17) der anderen Rippe (18) als Fasen (15, 16) ausgebildet sind, welche, vorzugsweise unter 450, zu der Mitte–Laengsachse (9) der Leiste (5) geneigt sind,ein von der einen Fase (15) des Stegs (14) und der anderen Fase (16) der anderen Rippe (18) seitlich sowie von der Stirnseite (28) der Leiste (5) und der Stirnseite (28c) des einen Schenkels (20) in Richtung Fussende (8a) begrenzter Hohlraum (30) im Querschnitt im wesentlichen trapezfoermig ausgebildet ist, welcher sich innerhalb des Dichtungsprofils durchgehend erstreckt,im oberen Bereich der anderen Rippe (18) an der Fase (16) der Kopfabschnitt (2) gekoppelt ist, wobei der Kopfabschnitt (2) im Querschnitt in seinem oberen Bereich von einem ersten Halbkreisbogen (44) umgrenzt ist, auf dem Kopfabschnitt (2) Dichtlippen (22) angeordnet sind, deren Spitzen auf einem zweiten Halbkreisbogen (45) liegen, der Mittelpunkt des ersten Halbkreisbogens (44) mit dem des zweiten Halbkreisbogens (45) zusammenfaellt,der Kopfabschnitt (2) in seinem unteren Bereich (45) einen in den Hohlraum (30) in Richtung der anderen Rippe (19) vorspringend angeordneten Dornfortsatz (23b) hat, der Kopfabschnitt (2) mit seinem unteren der Fase (16) des anderen Schenkels (17) der anderen Rippe (18) zugewandten Bereich sich als, vorzugsweise im Querschnitt trapezfoermiger, Uebergangsbereich (11) im oberen Bereich der Fase (16) der anderen Rippen (18) gekoppelt ist.

Machine translation: (Claim 1) 1. Sealing profile from elastic materials for the sealing of a gap between two construction units, whereby the first construction unit exhibits a photograph groove for the sealing profile, against which the second construction unit with an even surface in working position for the plant is intended, the sealing profile exhibits a main section (1) with a profile foot (5b) for mounting plate in the photograph groove of the first construction unit limited with two side panels and a head section (2) for the plant of the second construction unit, the main section (1) a border (5) with a center longitudinal axis (9) exhibits, in it characterized, that those border (5) within the range of the top (8b) at the two oppositely arranged sides (27) the border (5) two crosswise 2u of the center longitudinal axis (9) of the border (5) aligned ribs (18, 19), whereby the other rib (18) is trained L–shaped and is arranged with their a thigh (20) with its top (41) at side (27) the border (5) and the other thigh (17) of the other rib (18) extends lengthwise to the center longitudinal axis (9), on that that basing (8a) exhibits turned away face (28) of the border (5) at the top (8b) of the border (5) a bar (14) parallel to the center longitudinal axis (9) of the border (5) and perpendicularly to the rib (19), those is arranged the center longitudinal axis (9) of the border (5) turned sides of the bar (14) and the other thigh (17) of the other rib (18) than chamfers (15, 16) are trained, which, preferably under 450, are bent to the center longitudinal axis (9) of the border (5), of the one chamfer (15)

the bar (14) and the others chamfers (16) the other rib (18) laterally as well as from the face (28) that Border (5) and the face (28c) thigh (20) toward basing (8a) limited cavity (30) in the cross section, which extends within the sealing profile continuous, in the upper range of the other rib (18) to chamfers (16) the head section (2) is essentially trapezoidally trained coupled is, whereby the head section (2) is circumscribed in the cross section in its upper range by a first semi−circle elbow (44), on the head section (2) sealing rims (22) is arranged, their points on a second semi−circle elbow (45) lies, the center of the first semi−circle elbow (44) with that the second semi−circle elbow (45), the head section (2) within its lower range (45) collapses one into the cavity (30) toward the other rib (19) protruding arranged thorn extension (23b) has, the head section (2) with its lower chamfers (16) the other thigh (17) of the other rib (18) turned range than, preferably in the cross section more trapezoidal, transient area (11) within the upper range chamfers itself (16) the other ribs (18) is coupled.

0) US6079767A – POWER SLIDING DOOR FOR A MOTOR VEHICLE

56) Family number: 12332796 (US6079767A) © PatBase

Title: POWER SLIDING DOOR FOR A MOTOR VEHICLE

Priority: US19990342781 19990629

Family:

Publication number	Publication date	Application number	Application date
US6079767 A	20000627	US19990342781	19990629

Probable Assignee: FCA US LLC

Assignee(s):(std)**:** DAIMLER CHRYSLER CORP

Assignee(s): DAIMLERCHRYSLER CO ; DAIMLERCHRYSLER CORP ; WILMINGTON TRUST CO ; NEW CARCO ACQUISITION LLC ; UNITED STATES DEPARTMENT OF TREASURY ; US DEPARTMENT OF TREASURY ; DAIMLERCHRYSLER CO LLC ; JPMORGAN CHASE BANK NA ; FCA US LLC ; FCA US LLC WAS KNOWN AS CHRYSLER GROUP LLC.. ; CHRYSLER GROUP GLOBAL ELECTRIC MOTORCARS LLC ; CHRYSLER GROUP LLC ; CHRYSLER LLC ; CITIBANK NA

Inventor(s):(std)**:** KAPES RICHARD C ; HASKIN TERENCE W ; FAUBERT ROBERT J ; BROCK WAINE T

International class (IPC 8–9): B60J5/06 E05B65/12 E05D15/10 (Advanced/Invention); B60J5/06 E05B65/12 E05D15/10 (Core/Invention)

International class (IPC 1–7): B60J5/06

CPC: E05F15/646 E05F15/659 E05D15/10 B60J5/06 E05B81/20 E05D15/1047 E05D2015/1055 E05Y2900/531

European class: B60J5/06 E05B81/20 E05D15/10 E05D15/10D2 E05D15/10S2 P05D15/10S5 P05Y900/531

US class: 296/155

Classification Explorer

Cited documents: US5921611 A, US5906071 A, US5867940 A, US5836639 A, US5833301 A, US5758453 A, US5618080 A, US5551190 A, US5536061 A, US5483769 A, US5351441 A, US5316365 A, US5239779 A, US5189839 A, US5168666 A, US5140316 A, US5076016 A, US5069000 A, US5046283 A, US4887390 A, US4640050 A, US4612729 A, JP60199722 A2, JP58030827 A2, EP0464720 A1,

Forward Citations: WO02072983, WO02072983, US9587724, US9353566, US9067489, US8508068, US8474889, US8360505, US8328270, US8247921, US8212383, US8025321, US7902782, US7810282, US7525272, US7175228, US7144068, US7144068, US7025401, US6904717, US6886874, US6854212, US6851223, US6848216, US6834909, US6803733, US6799669, US6615545, US6603076, US6588829, US6553719, US6435600, US6430875, US6386620, US6340199, US6290283, US6276743, US6256930, US6189406, US2016130852, US2012139287, US2010193216, US2009302637, US2009091438, US2009008991, US2008202029, US2008122246, US2008072497, US2007200369, US2007063537, US2005110300, US2005035623, US2004262932, US2004201229, US2004172884, US2004168371, US2003050151, EP1512822,

Abstract:
Source: US6079767A A sliding door system including a guide track, a door assembly, a power drive assembly operable for propelling the door assembly between an open position and a closed position, a power latching mechanism operable for selectively positioning the door assembly between a fully latched position and a fully unlatched position, a control module operable for controlling the operation of the power drive assembly and power latching mechanism and a wire harness electrically coupling the power drive assembly, the power latching mechanism and various other vehicle devices and switches to the control module. The guide track, power drive unit, power latching mechanism and door assembly are configured in a manner which provides improved performance of the power door system, as well as permitting the vehicle door system to be readily upgraded from one which is completely manual in operation to one which may be actuated automatically.

0) US2001030873A – SAFETY HANDLE FOR OPENING THE TRUNK OF A VEHICL...

57) Family number: 28273895 (US2001030873A) © PatBase

Title: SAFETY HANDLE FOR OPENING THE TRUNK OF A VEHICLE FROM INSIDE

Priority:

CA19992291946	19991209	CA20002302390	20000323	US19990275565	19990324
US19990135393P	19990521	US20000484754	20000118	US20000516831	20000301
US20020263538	20021003	US20010852483	20010510	US20020228414	20020827
US20020144506	20020513	US20040930195	20040831	US20020301315	20021121
US20000648560	20000825	US20000605233	20000628	US20060510978	20060828

Family:

Publication number	Publication date	Application number	Application date
CA2291946 AA	20000924	CA19992291946	19991209
CA2302390 AA	20000924	CA20002302390	20000323
EP1039077 A2	20000927	EP20000650023	20000323
EP1039077 A3	20050112	EP20000650023	20000323
US2001030873 AA	20011018	US20010852483	20010510
US2002135196 AA	20020926	US20020144506	20020513
US2002196131 AA	20021226	US20020228414	20020827
US2003035297 AA	20030220	US20020263538	20021003
US2003102688 AA	20030605	US20020301315	20021121
US2005023858 AA	20050203	US20040930195	20040831
US2006290518 AA	20061228	US20060510978	20060828
US6086131 A	20000711	US19990275565	19990324
US6254261 BA	20010703	US20000605233	20000628
US6390529 BA	20020521	US20000516831	20000301
US6460906 BB	20021008	US20010852483	20010510
US6480103 BA	20021112	US20000484754	20000118
US6485081 BA	20021126	US20000648560	20000825
US6621411 BB	20030916	US20020228414	20020827
US6692056 BB	20040217	US20020144506	20020513
US6783167 BB	20040831	US20020301315	20021121
US6832793 BB	20041221	US20020263538	20021003
US7097226 BB	20060829	US20040930195	20040831

Probable Assignee: DONNELLY CORP

Assignee(s):(std)**:** DONNELLY CORP ; DONNELLY CORP A CORP OF ST ; DONNELLY CORP STATE MICHIGAN ; DONNELLLY CORP

Assignee(s): DONNELLY A OF STATE OF CORP ; DONNELLY A OF STATE OF MICHIGAN CORP ; BINGLE ROBERT L ; BOS BRENT J ; HOEKSTRA ERIC J ; KOOPS ROGER L ; TEOWEE GIMTONG ; SCHOFIELD KENNETH ; LYNAM NIALL R ; ULHMANN EUGENE V ; MCCARTHY KEVIN C ; TAYLOR DAVID W

Inventor(s):(std)**:** BINGLE ROBERT ; BOS BRENT J ; HOEKSTRA ERIC J ; KOOPS ROGER ; MCCARTHY KEVIN C ; SCHOFIELD KENNETH ; TAYLOR DAVID W ; TEOWEE GIMTONG ; UHLMANN EUGENIE V ; ULHMANN EUGENE V ; LYNAM NIALL R ; KOOPS ROGER L ; BINGLE ROBERT L

Inventor(s): UHLMANN EUGENIE ; TAYLOR DAVID ; LYNAM NIALL ; MCCARTHY KEVIN ; HOEKSTRA ERIC ; BOS BRENT

Agent(s): BORDEN LADNER GERVAIS LLP; VAN DYKE GARDNER LINN AND BURKHART LLP

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): B60J9/02 B60Q11/00 B60Q3/06 B60Q9/00 B60R27/00 B60R5/00 B62D25/08 E05B1/00 E05B47/00 E05B65/12 E05B65/19 E05B65/20 G08B23/00 (Advanced/Invention); E05B17/10 E05B17/22 E05B45/06 E05B53/00 (Advanced/Non–invention); B60Q3/00 E05B65/12 E05B65/20 (Core/Invention); E05B17/00 E05B45/00 E05B53/00 (Core/Non–invention)

International class (IPC 1–7): B60J9/02 B60Q1/00 B60Q1/26 B60Q11/00 B60Q3/06 B60Q9/00 B60R27/00 B60R5/00 B62D25/10 B62D25/12 E05B1/00 E05B3/00 E05B47/00 E05B65/10 E05B65/12 E05B65/19 F2111/02 F21S10/00 G08B19/00

CPC: Y10S292/43 Y10S292/65 G07C9/00174 G07C9/00896 G08B21/22 E05B79/20 E05B17/10 E05B85/12 E05B81/54 E05B81/77 E05B81/64 E05B83/26 Y10T70/8946 Y10T292/57 Y10T292/82 Y10T70/65 G08B13/19 G08B29/183 B60Q3/30

European class: B60Q3/06 E05B83/26 E05B85/12 G07C9/00E G08B21/22 P05B17/10 P05B17/22 P05B53/00D2 S07C9/00E20

US class: 180/271 180/287 292/336.3 292/347 292/DIG.43 292/DIG.65 296/76 296/76P 307/10.2 307/102 340/425.5 340/425.500P 340/426.1 340/429 340/430 340/506 340/507 340/522 340/573.1 340/573.100P 340/573.4 340/632 343/713 362/100 362/276 362/365 362/464 362/496 362/496P 362/501 362/540 455/345 49/141 70/264 70/465 701/49 701/49S 73/23.2 73/23.3 73/232 73/233

Classification Explorer

Cited documents: WO9904119 A1, WO9904119, WO9836950 A1, WO9813235 A1, WO9813235, WO9739920, WO9739920, US6741165 BA, US6527313 BB, US6485081 BA, US6480103 BA, US6460906 BB, US6460906 BA, US6433292 BA, US6402357 BA, US6394511 BA, US6390529 BA, US6390529, US6380858 BA, US6369395 BA, US6356204 BA, US6349984 BA, US6349984, US6339376 BA, US6339376, US6335687 BA, US6335687, US6275146 BA, US6275146, US6254261 BA, US6254261, US6247732 BA, US6236333 BA, US6222442 BA, US6222442, US6209933 BA, US6208241 BA, US6166625 A, US6166625, US6164805 A, US6158788 A, US6139172 A, US6139172, US6135514 A, US6135514, US6130614 A, US6130614, US6104293 A, US6104293, US6091322 A, US6091322, US6086131 A, US6051981 A, US6051981, US6043735 A, US6028509 A, US6028509, US6024388 A, US6024388, US6018292 A, US6006143 A, US5986549 A, US5986549, US5949340 A, US5949340, US5938321 A, US5938321, US5933090 A, US5933090, US5914610 A, US5914610, US5910854 A, US5887466 A, US5887466, US5859479 A, US5848802 A, US5848802, US5805056 A, US5805056, US5802479 A, US5802479, US5796094 A, US5793291 A, US5793291, US5744875 A, US5737083 A, US5737083, US5726629 A, US5726629, US5719551 A, US5719551, US5711559 A, US5711559, US5693943 A, US5693943, US5670935 A, US5669704 A, US5663704 A, US5663704, US5653386 A, US5649316 A, US5636536 A, US5636536, US5634209 A, US5600333 A, US5585625 A, US5585625, US5581230 A, US5581230, US5580153 A, US5580153, US5554912 A, US5550677 A, US5546273 A, US5528698 A, US5525843 A, US5525843, US5512836 A, US5512836, US5488610 A, US5486810 A, US5482314 A, US5445326 A, US5424718 A, US5424712 A, US5424711 A, US5409273 A, US5406171 A, US5404128 A, US5383703 A, US5371659 A, US5349329 A, US5339362 A, US5317620 A, US5297010 A, US5290643 A, US5283551 A, US5231359 A, US5219413 A, US5216407 A, US5174643 A, US5166679 A, US5093656 A, US5084696 A, US5077549 A, US5071160 A, US5063371 A, US5054826 A, US5054686 A, US5045702 A, US5030012 A, US5027104 A, US5003800 A, US4982094 A, US4981314 A, US4979384 A, US4954813 A, US4952808 A, US4933668 A, US4930864 A, US4928212 A, US4926417 A, US4895009 A, US4881148 A, US4873530 A, US4868390 A, US4857912 A, US4848509 A, US4848114 A, US4825079 A, US4797657 A, US4796013 A, US4775347 A, US4764755 A, US4764753 A, US4752768 A, US4746910 A, US4745284 A, US4709153 A, US4704533 A, US4697081 A, US4667990 A, US4645233 A, US4612442 A, US4604524 A, US4556796 A, US4546417 A, US4507654 A, US4482179 A, US4468657 A, US4464649 A, US4441023 A, US4437137 A, US4437003 A, US4418335 A, US4403172 A, US4384207 A, US4379971 A, US4371205 A, US4365232 A, US4342210 A, US4322959 A, US4318089 A, US4312197 A, US4242669 A, US4166955 A, US4155233 A, US4127966 A, US4122371 A, US4080812 A, US4052716 A, US4007955 A, US3992909 A, US3956732 A, US3861624 A, US3839640 A, US3829693 A, US3766539 A, US3759556 A, US3678716 A, US3596484 A, US3582639 A, US3553448 A, US3495084 A, US3241344 A, US3209563 A, US3016968 A, US2760050 A, US2688865 A, US2360227 A, US2117160 A, US2006119481 AA, US2006058917 AA, US2003006878 AA, US2002135196 AA, US2002080014 AA, US2002063432 AA, US2002047279 AA, US2002033609 AA, US2002003571 AA, US2001030871 AA, US1721347 A, US1684499 A, US1629456 A, US1523495 A, JPS58188458, JP58188458 A2, JP58188458, JP50077938 A2, JP50077938, JP1182478 A2, JP10278564, GB2266799 A1, GB2266799, GB2252438 A1, GB2252438, EP1039077, EP1039077, EP0235372 A2, EP0235372, DE9006007 U, DE9006007, DE9006007, DE3732936 A1, DE3732936, DE2636099 A1, DE2636099,

Forward Citations: WO17106319, WO16138518, WO13028291, WO13009392, WO09005612, WO08137634, WO08103542, WO07078843, WO07078843, WO04095189, WO04095189, WO04085771, WO04066275, WO04066275, WO0163172, USRE42340, USRE40073, USD684838, USD656382, USD535204, USD501784, US9800983, US9783115, US9783114, US9776556, US9775768, US9771082, US9768517, US9758102, US9737859, US9729342, US9723967, US9714525, US9699290, US9694753, US9694749,

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US2009001270, US2008319616, US2008284868, US2008280568, US2008265588, US2008257252, US2008231060, US2008226421, US2008222963, US2008208405, US2008174423, US2008157985, US2008157958, US2008133085, US2008119990, US2008103660, US2008100079, US2008083446, US2008083445, US2008074894, US2008049344, US2008046153, US2008018475, US2007296257, US2007285224, US2007273496, US2007273475, US2007236067, US2007229243, US2007157495, US2007146120, US2007145921, US2007143207, US2007112513, US2007109807, US2007094436, US2007085659, US2007070593, US2007062572, US2007024125, US2007015451, US2007001836, US2006290518, US2006284756, US2006266949, US2006255595, US2006251293, US2006238316, US2006225940, US2006213455, US2006186847, US2006181413, US2006181152, US2006180764, US2006170537, US2006118348, US2006116102, US2006104075, US2006055583, US2006049365, US2006043758, US2006032693, US2006018641, US2006009889, US2006006701, US2006005485, US2005285444, US2005245291, US2005237190, US2005225993, US2005208908, US2005151620, US2005146147, US2005099021, US2005085968, US2005077734, US2005068160, US2005038582, US2005023858, US2005011578, US2004246171, US2004207511, US2004200435, US2004189450, US2004174262, US2004164856, US2004150573, US2004142678, US2004119317, US2004075539, US2004075347, US2003158644, US2003145801, US2003112633, US2003111849, US2003105558, US2003102688, US2003101781, US2003094793, US2003076687, US2003058088, US2003052490, US2003035297, US2003029210, US2002181743, US2002159270, US2002121154, US2001036832, KR100941102, JP6059920, JP2014047521, GB2413914, GB2413914, EP3089133, EP3001395, EP2889446, EP1447503, EP1099815, DE10351725, DE10351724, DE10313246, DE102016103422, DE102013227211, DE102012004792, DE102006062745, DE102005045640, DE102004012605, DE10050160, CN105459937, CN105374093, CN104369694, CN104369694, AT517673,

Abstract:
Source: US2001030873A A safety handle for opening a deck lid of a vehicle from inside the trunk compartment includes a handle and a housing having an outer wall and a perimeter surface. The housing defines a recess therein, which is positioned below or behind a plane defined by the perimeter surface of the housing. The handle is positioned in the recess and includes a handle portion and a shaft portion which defines a pivot axis of the handle. The shaft portion is pivotably mounted to the housing whereby said handle portion is positioned within the recess and below the plane defined by the perimeter surface such that the handle is pivotable within the recess. The handle is connectable to the release mechanism of the deck lid and pivotable to actuate the release mechanism to open the deck lid of the trunk.

0) US2001010429A – ELECTRONICALLY–CONTROLLED VEHICLE DOOR SYSTEM

58) Family number: 28130082 (US2001010429A) © PatBase

Title: ELECTRONICALLY–CONTROLLED VEHICLE DOOR SYSTEM

Priority: CA20002312686 20000628 US19990342780 19990629 US20010817714 20010326

Family:

Publication number	Publication date	Application number	Application date
CA2312686 AA	20001229	CA20002312686	20000628
EP1087080 A2	20010328	EP20000110472	20000517
EP1087080 A3	20020703	EP20000110472	20000517
US2001010429 AA	20010802	US20010817714	20010326
US6256932 BA	20010710	US19990342780	19990629

Probable Assignee: FCA US LLC

Assignee(s):(std)**:** DAIMLER CHRYSLER CORP ; WLUDYKA TODD H

Assignee(s): CHRYSLER GROUP GLOBAL ELECTRIC MOTORCARS LLC ; CHRYSLER GROUP LLC ; CHRYSLER LLC ; CITIBANK NA ; DAIMLERCHRYSLER CO ; DAIMLERCHRYSLER CO LLC ; DAIMLERCHRYSLER CORP ; FCA US LLC ; FCA US LLC WAS KNOWN AS CHRYSLER GROUP LLC.. ; JPMORGAN CHASE BANK NA ; JYAWOOK JAIME N ; JYAWOOK JAMIE N ; WILMINGTON TRUST CO ; NEW CARCO ACQUISITION LLC ; UNITED STATES DEPARTMENT OF TREASURY ; US DEPARTMENT OF TREASURY

Inventor(s):(std)**:** JYAWOOK JAMIE N ; WLUDYKA TODD H ; JYAWOOK JAIME N

Agent(s): MARKS AND CLERK

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** B60J5/06 B60Q1/30 E05B1/00 E05B65/12 E05B65/20 F21S8/10 (Advanced/Invention); E05B47/00 E05B65/08 (Advanced/Non–invention); E05B65/12 E05B65/20 (Core/Invention); E05B47/00 E05B65/08 (Core/Non–invention)

International class (IPC 1–7)**:** B60J5/06 B60Q1/30 E05B1/00 E05B47/00 E05B65/08 E05B65/19 E05B65/20 E06B3/00 F21S8/10

CPC: E05B81/14 E05B77/24 E05B77/26 E05B81/20 E05B81/76 E05B2047/0071 E05B83/40 Y10T292/57 Y10T292/82

European class: E05B77/24 E05B77/26 E05B81/14 E05B81/20 E05B83/36 P05B47/00E8 P05B65/08 P05B81/76

US class: 292/336.3 292/347 292/347P 49/503

Classification Explorer

Cited documents: WO9928170 A1, WO9842527 A1, WO9801643 A1, US6064003 A, US6002341 A, US5942872 A, US5904002 A, US5901991 A, US5749611 A, US5713613 A, US5605363 A, US5558372 A, US5238276 A, US5192125 A, US4892342 A, US4762348 A, US4554808 A, US4276459 A, US3311728 A, EP0881111 A1, DE19752974 A1,

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Abstract:
Source: US2001010429A A vehicle door system having a vehicle door, a stationary handle fixed to the vehicle door, a door switch, a power latching mechanism and a wiring harness with a sealing grommet is provided. The door switch is mounted to the stationary handle in a manner which permits the door switch to be actuated when the stationary handle is gripped to open the vehicle door. The wire harness extends from the door switch through an aperture in the vehicle door and couples the door switch to a control module. The sealing grommet substantially seals the aperture to inhibit the infiltration of water and dust into the vehicle door. Actuation of the

door switch causes the generation of a door switch signal which is received by the control module. Upon receipt of the switch signal, the control module determines the latched condition of the power latching mechanism and controls its operation according to a predetermined control methodology.

0) US6443519B – SEALING SYSTEM ON A MOTOR VEHICLE

59) Family number: 12509236 (US6443519B) © PatBase

Title: SEALING SYSTEM ON A MOTOR VEHICLE

Priority: DE19991043765 19990913

Family:

Publication number	Publication date	Application number	Application date
DE19943765 A1	20010322	DE19991043765	19990913
DE19943765 C2	20030703	DE19991043765	19990913
DE19943765 C5	20070913	DE19991043765	19990913
US6443519 BA	20020903	US20000661366	20000913

Probable Assignee: WEBASTO VEHICLE SYSTEMS INT GMBH

Assignee(s):(std)**:** WEBASTO AG ; WEBASTO VEHICLE SYS INT GMBH ; WEBASTO VEHICLE SYSTEMS INTERN

Assignee(s): WEBASTO VEHICLE SYSTEMS INTERNATIONAL GMBH ; WEBASTO VEHICLE SYSTEMS INT ; WEBASTO VEHICLE SYSTEMS INT GMBH

Inventor(s):(std)**:** BETZL THOMAS

International class (IPC 8–9)**:** B60J10/00 B60J10/10 B60J10/12 B60R13/04 B60R13/07 (Advanced/Invention) ; B60J10/00 B60R13/00 B60R13/04 (Core/Invention)

International class (IPC 1–7)**:** B60J10/08 B60J10/12 B60J7/00 B60R13/04 B60R13/07 B62D25/07

CPC: B60J10/25 B60J10/82 B60J10/90 B60J7/0084 B60R13/07 B60J10/233

European class: B60J10/00D6 B60J10/10 B60J10/12 B60J7/00G B60R13/07

US class: 296/146.9 296/154 296/213 296/216

Classification Explorer

Cited documents: US6270154 BA, US6196625 BA, US5941598 A, US5902008 A, US5664827 A, US5466038 A, US5209546 A, US4817336 A, US4775181 A, US4729593 A, US4688847 A, US4582358 A, US4494790 A, US4475766 A, US3944278 A, GB430479 A, EP0460768 A1, DE4344373 C1, DE4344373 A1, DE3940503 A1, DE3910257 A1, DE19541848 A1, DE19502325 A1, DE19441848,

Forward Citations: WO07009437, WO07009437, US9566850, US9505293, US9283833, US9114690, US7651159, US7464987, US7374234, US7182394, US6641202, US2015007504, US2007182197, US2007102953, US2006125292, US2005194751, FR2892978, EP3050728, EP1782987, EP1512571, DE10341526, DE10336193, DE10336192, DE10311652, DE102013203873, DE102013203873, DE102007012018, DE102005033276, DE102004016031, CN104276014,

Abstract:
Source: US6443519B A sealing system on a motor vehicle is disclosed which includes two sealing profile sections on two adjacent body parts and in which each of the two sealing profile sections can be moved relative to one another. In addition, each of the two sealing profile sections has at least one channel for carrying water that at least partially overlap when the body parts are adjoined to one another.

0) US2003074842A – DOOR TRIMMING PANEL HAVING A WINDOW–LIFT MECHAN...

60) Family number: 28626227 (US2003074842A) © PatBase

Title: DOOR TRIMMING PANEL HAVING A WINDOW–LIFT MECHANISM

Priority: FR19990012519 19991007 US20000684234 20001006 US20010975387 20011009 WO2000FR02799 20001009

Family:

Publication number	Publication date	Application number	Application date
AU200077962 A5	20010510	AU20000077962	20001009
DE60035653 D1	20070906	DE20006035653	20001009
DE60035653 T2	20080521	DE20006035653T	20001009
EP1090788 A1	20010411	EP20000402777	20001009
EP1090788 B1	20070725	EP20000402777	20001009
FR2799493 A1	20010413	FR19990012519	19991007
FR2799493 B1	20011123	FR19990012519	19991007
JP2003526558 T2	20030909	JP20010528011T	20001009
JP4704644 B2	20110615	JP20010528011T	20001009
US2003074842 AA	20030424	US20010975387	20011009
US6305129 BA	20011023	US20000684234	20001006
US6574922 BB	20030610	US20010975387	20011009
WO0125038 A1	20010412	WO2000FR02799	20001009

Probable Assignee: ARVINMERITOR LIGHT VEHICLE SYSTEMS FRANCE

Assignee(s):(std): ARVINMERITOR LIGHT VEHICLE SYS ; ECKHARDT BERNHARD YVES ; FAURECIA INNENRAUM SYS GMBH ; MERITOR LIGHT VEHICLE SYS LTD ; SAI AUTOMOTIVE SAL GMBH ; VELTHAUS FRANK

Assignee(s): MERITOR LIGHT VEHICLE SYSTEMS FRANCE ; MERITOR LIGHT VEHICLE SYSTEMS ; FAURECIA INNENRAUM SYSTEME GMBH ; ARVINMERITOR LIGHT VEHICLE SYSTEMS FRANCE

Inventor(s):(std): EKHARDT BERNHARD YVES ; ECKHARDT BERNHARD YVES M ; ECKHARDT BERNHARD YVES ; VELTHAUS FRANK

Inventor(s): FRANK VELTHAUS ; BERNHARD YVES ECKHARDT

Designated states: AE AG AL AM AT AU AZ BA BB BE BG BR BY BZ CA CH CN CR CU CY CZ DE DK DM DZ EE ES FI FR GB GD GE GH GM GR HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK MN MW MX MZ NL NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): B60J1/17 B60J5/00 B60J5/04 E05F11/48 E05F15/16 (Advanced/Invention); E05F11/48 (Advanced/Non–invention); B60J1/17 B60J5/00 B60J5/04 E05F11/38 E05F15/16 (Core/Invention); E05F11/38 (Core/Non–invention)

International class (IPC 1–7): B60J1/08 B60J1/17 B60J5/00 B60J5/04 B62D65/06 E05F11/38 E05F11/48 E05F15/08 E05F15/16

CPC: E05F15/697 E05F15/689 B60J5/0416 E05F11/483 E05Y2900/55

European class: B60J5/04D4 E05F11/48B2 E05F15/16C E05F15/16C5 P05F11/48B2 P05Y900/550

US class: 296/146.7 49/349 49/349P 49/352 49/502

Classification Explorer

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Forward Citations: WO14069533, WO10014897, WO10014897, WO04087450, US9731580, US9642187, US9579955, US9475364, US9242533, US9174515, US8938914, US8915018,

US8881458, US8839566, US8402695, US8336259, US8082694, US8024892, US7823329, US7805888, US7802401, US7627989, US7490438, US7044412, US6848215, US6754991, US6722725, US6684568, US6574922, US2015345697, US2015275560, US2013284843, US2010251619, US2010024306, US2008263959, US2008258495, US2008244982, US2008244980, US2008127563, US2007180773, US2007175098, US2007000178, US2006130405, US2005229493, US2005206194, US2003160124, US2003159360, US2003019161, US2002100220, KR101302354, KR101145229, JP2014069533, JP2010150865, FR2851001, FR2828521, EP1544012, EP1283323, EP1176041, EP1176041, DE10208106, DE102015107449, DE102011004466, DE102008056122,

Abstract:
Source: US2003074842A The invention relates to a vehicle door comprising an outer panel lined with an inner door panel having at least one opening therethrough, a rigid base door trim panel covered with a decorative covering, the rigid base door trim panel being fixed to the inner door panel and being disposed in front of the opening thereof, the rigid base door trim panel locally integrating a cup−shaped housing opened towards the decorative covering and covered thereby, and a window lift mechanism partially received within the cup−shaped housing and connected to the vehicle door, the window lift mechanism comprising a rotative drum for lifting or lowering the window. The rotative drum is rotatively fitted within the cup−shaped housing.

61) Family number: 31957524 (US2001002451A) © PatBase

Title: METHOD AND APPARATUS FOR CONTROLLING A VEHICULAR COMPONENT

Priority:

US19920878517	19920505	US19920878571	19920505	US19930040978	19930331
US19950474783	19950607	US19950505036	19950721	US19960640068	19960430
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US20050082739	20050317	US20050039129	20050119	US20040592838P	20040730

Family:

Publication number	Publication date	Application number	Application date
US2001002451 AA	20010531	US20010753186	20010102
US2003176959 AA	20030918	US20020330938	20021227
US2005046584 AA	20050303	US20040940881	20040913
US2006180371 AA	20060817	US20060278188	20060331
US2008047329 AA	20080228	US20070924197	20071025
US6484080 BB	20021119	US20010753186	20010102
US6484080 C1	20080819	US20010753186	20010102
US6823244 BB	20041123	US20020330938	20021227
US7663502 BB	20100216	US20040940881	20040913

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s):(std)**:** AUTOMOTIVE TECH INT ; BREED DAVID S ; INTELLIGENT TECH INT INC

Assignee(s): AMERICAN VEHICULAR SCIENCES LLC ; INTELLIGENT TECHNOLOGIES INTERNATIONAL INC ; INTELLIGENT TECHNOLOGIES INT INC ; INTELLIGENT TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; AUTOMOTIVE TECHNOLOGIES INTIONAL

Inventor(s):(std)**:** BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C

Inventor(s): BREED DAVID ; JOHNSON WENDELL ; DUVALL WILBUR

Agent(s): BRIAN ROFFE ESQ; BRIAN

International class (IPC 8–9): B60C11/24 B60C19/00 B60C23/04 B60C23/06 B60J10/00 B60J7/057 B60K28/16 B60N2/00 B60N2/015 B60N2/02 B60N2/06 B60N2/28 B60N2/48 B60N2/66 B60Q1/14 B60R16/02 B60R16/037 B60R21/01 B60R22/20 E05F15/00 G01F23/00 G01F23/20 G01F23/296 G01G19/414 G01N11/00 G01N29/02 G01N33/00 G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/02 G01S17/88 G01S7/41 G01S7/48 G01S7/539 G06F3/023 G06K9/00 G07C5/00 G07C5/08 G08B13/14 G08B29/18 G08C19/00 H01Q1/32 (Advanced/Invention);
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International class (IPC 1–7): G06F11/00 G06F7/00 G08C19/00

CPC: G01N35/00871 G01N2291/02836 G01N2291/02845 G01N2291/02881 B60N2002/0272 B60R21/013 B60N2/002 B60N2/015 B60N2/0244 B60N2/0248 B60N2/0252 B60N2/067 B60N2/28 B60N2/2806 B60N2/4829 B60N2/4852 B60N2/4885 B60N2/66 B60N2002/0268 B60Q1/143 B60Q2300/41 B60Q2300/42 B60R16/037 B60R21/0132 B60R21/0134 B60R21/0136 B60R21/203 B60R21/21656 B60R21/276 B60R22/20 B60R22/201 B60R25/25 B60R25/252 B60R25/255 B60R25/257 B60R2001/1223 B60R2001/1253 B60R2021/0027 B60R2021/01315 B60R2021/23153 B60R2021/26094 B60R2021/2765 B60R2022/208 B60R2022/288 B60R2022/4685 B60R2022/4825 E05Y2900/516 E05Y2900/542 E05Y2900/55 G01S7/417 G01S7/4802 G01S7/539 G01S13/04 G01S15/04 G01S15/06 G01S15/42 G01S15/87 G01S15/88 G01S17/026 G01S17/88 G01S17/89 G06F3/0219 G06F3/0233 G06F3/0237 G06F3/0238 G06K9/00362 G06K9/00624 G06K9/00832 G08B13/1427 G08B21/0286 G08B29/181 G10K2210/1282 G10K2210/3219 H01Q1/3291 G06K9/00536 B60C19/00 B60C11/24 B60C11/246 B60G2400/62 B60G2401/12 B60N2/0232 B60N2/0276 B60N2/2863 G07C5/0808 B60R21/01534 B60R21/01536 B60R21/01532 B60R21/01542 B60R21/01546 B60R21/01548 B60R21/01552 B60R21/01554 B60R2021/01088 G07B15/063 G07C5/008 G07C5/085 G08G1/205 B60R21/0152 B60R21/01516 B60R21/01538 B60R21/0153 B60R21/01544 E05F15/43 E05F15/431 E05F2015/433

European class: B60C11/24 B60C19/00 B60J10/00 B60J7/057B B60N2/00C B60N2/015 B60N2/02B4 B60N2/02B6 B60N2/02B6B B60N2/02B6C B60N2/02B6W B60N2/06S B60N2/28 B60N2/28B2 B60N2/28P4 B60N2/48C2C B60N2/48C3C B60N2/48W B60N2/66 B60Q1/14C1B B60R16/02B8 B60R16/037 B60R21/013 B60R21/0136 B60R21/015 B60R22/20 B60R25/25 B60R25/25B B60R25/25D B60R25/25F E05F15/00B6B E05F15/00B6B2 G01F23/00G1A G01F23/20 G01F23/296D G01G19/414A G01N35/00G3L G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/02D G01S17/88 G01S7/41D G01S7/48A G01S7/539 G06F3/023A5 G06F3/023M G06F3/023M8 G06F3/023P G06F3/02A5 G06K9/00H G06K9/00V G06K9/00V7 G07C5/00T G07C5/08D G08B13/14D G08B13/24B5T G08B13/24B7D G08B21/02A26 G08B29/18A G08G1/20B H01Q1/32L10 L60G400/62 L60G401/12 L60N2/02B6S L60Q300/410 L60Q300/420 L60R1/12C L60R1/12G L60R21/00C L60R21/0132 L60R21/0134 L60R21/013R L60R21/015G2 L60R21/015G6 L60R21/015G6B L60R21/015G6D L60R21/015G6F L60R21/015G6H L60R21/015G7 L60R21/015G8 L60R21/015G8C L60R21/015G8E L60R21/015G9 L60R21/015J L60R21/01H3Y L60R21/01L6A L60R21/203 L60R21/2165S L60R21/231M L60R21/26V L60R21/276 L60R21/276L L60R22/20B L60R22/20R L60R22/28L L60R22/46L L60R22/48B2 P05F15/00B6B5R P05Y900/516 P05Y900/542 P05Y900/550 S01N291/028F S01N291/028H S01N291/028T S01S13/04 S01S15/04 S01S15/06 S01S15/88 S01S17/89 S07B15/06B S07C5/08R2 S10K210/1282 S10K210/3219

US class: 180/197 280/735 280/735S 307/9.1 340/12.25 340/13.31 340/13.310P 340/5.61 340/5.64 340/5.7 340/5.71 340/5.710S 340/7.29 340/825.22 340/825.37 340/825.69 340/825.72 455/42 455/420 455/420S 455/556.2 701/1 701/29 701/29.7 701/30.6 701/31.4 701/32.1 701/32.3 701/32.4 701/33.1 701/34 701/34.4 701/36 701/36P 701/39 701/468 701/500 73/53.01 73/53.010S 73/61.41 73/61.410P 73/625 73/625S

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US2008046200, US2008046153, US2008046149, US2008040005, US2008033685, US2008027643, US2008022006, US2008019299, US2008019298, US2008018472, US2008013456, US2008011088, US2008004798, US2008004763, US2007297714, US2007295096, US2007283763, US2007271014, US2007266794, US2007260375, US2007254627, US2007250452, US2007250313, US2007250236, US2007239400, US2007234814, US2007233387, US2007232326, US2007229248, US2007220130, US2007220117, US2007200427, US2007200426, US2007194944, US2007190940, US2007182587, US2007179686, US2007157465, US2007144266, US2007144264, US2007143456, US2007139185, US2007118591, US2007118508, US2007118380, US2007115104, US2007115092, US2007113119, US2007100675, US2007100527, US2007085697, US2007077896, US2007075919, US2007062296, US2007062295, US2007055428, US2007042812, US2007039392, US2007030115, US2007028958, US2007027599, US2007026818, US2007023210, US2007015451, US2007013509, US2007013500, US2007005202, US2007000991, US2006288792, US2006278008, US2006273148, 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US2004236474, US2004229613, US2004225654, US2004225429, US2004215382, US2004164620, US2004084252, US2004078097, US2004064219, US2004059477,

US2004049578, US2004039509, US2004039502, US2004036261, US2004034810, US2004027241, US2004024570, US2004024501, US2004020994, US2003197603, US2003182042, US2003176959, US2003171113, US2003154798, US2003137414, US2003130774, US2003088346, US2002186121, US2002183993, US2002178133, US2002101332, TWI497455, RU2601924, RU2540783, RU2514130, KR101401602, JP2013163464, JP2010506794, JP2007524536, GB2423594, EP3115805, EP3115805, EP2950052, EP2686532, EP2162850, EP1958586, EP1759932, EP1732027, EP1732027, EP1717651, EP1717650, EP1470033, EP1281889, DE102015119251, DE102007006403, DE102006059037, DE102004056434, DE102004056434, DE102004043956, CN106125798, CN103797677, CN103797677, CN103703223, CN103517244, CN102498616, CN102498616, CN102187209, AU2011364389,

Abstract:
Source: US2001002451A Control system and method for controlling a part of the vehicle in which sensor systems are mounted at different locations on the vehicle, each sensor system providing a measurement related to a state of the sensor system or a measurement related to a state of the mounting location. A processor coupled to the sensor systems diagnoses the state of the vehicle based on the measurements of the sensor system, e.g., by the application of a pattern recognition technique. The processor controls the part based at least in part on the diagnosed state of the vehicle. At least one of the sensor systems may be a high dynamic range accelerometer or a sensor selected from a group consisting of a single axis acceleration sensor, a double axis acceleration sensor, a triaxial acceleration sensor and a gyroscope, and may optionally include an RFID response unit.

62) Family number: 15385804 (US2003006623A) © PatBase

Title: ASSEMBLY OF A VEHICLE WINDOW GLASS WITH A CONTIGUOUS ELEMENT

Priority: DE19991061706 19991221 DE20006018608 20001221 WO2000FR03656 20001221 JP20010546499 20001221 JP20010546499T 20001221

Family:

Publication number	Publication date	Application number	Application date
AT290476 E	20050315	AT20000993501T	20001221
BRPI0016595 A	20020910	BR2000PI16595	20001221
CN1151040 C	20040526	CN20008017510	20001221
CN1413151 A	20030423	CN20008017510	20001221
CZ20022197 A3	20021016	CZ20020002197	20001221
CZ298516 B6	20071024	CZ20020002197	20001221
DE19961706 A1	20010705	DE19991061706	19991221
DE19961706 B4	20040909	DE19991061706	19991221
DE60018608 C5	20161215	DE20006018608	20001221
DE60018608 D1	20050414	DE20006018608	20001221
DE60018608 T2	20060427	DE20006018608T	20001221
EP1240041 A1	20020918	EP20000993501	20001221
EP1240041 B1	20050309	EP20000993501	20001221
ES2239068 T3	20050916	ES20000993501T	20001221
JP2004501014 T2	20040115	JP20010546499T	20001221
JP2012020736 A2	20120202	JP20110207948	20110922
JP4886955 B2	20120229	JP20010546499T	20001221
MXPA02005492 A1	20020902	MX2002PA05492	20001221
PL204410 B1	20100129	PL20000355569	20001221
PL355569 A1	20040504	PL20000355569	20001221
PT1240041 T	20050729	PT20000993501T	20001221
US2003006623 AA	20030109	US20020176317	20020621
US6722731 BB	20040420	US20020176317	20020621
WO0145974 A1	20010628	WO2000FR03656	20001221

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s):(std)**:** BEHREND ULRICH ; CORNILS GERD ; FISCHER FLORIAN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN ; ORTEN THOMAS ; SAINT GOBAIN SEKURIT D GMBH ; SAINT GOBAIN LINAK AS

Assignee(s): SAINT GOBAIN GLASS FRANCE COURBEVOIE ; SAINT GOBAIN SEKURIT DEUTSCHLAND GMBH AND CO KG

Inventor(s):(std)**:** BEHREND U ; BEHREND ULRICH ; CORNILS G ; CORNILS GERD ; FISCHER FLORIAN ; FISHER F ; GERD CORNILS ; ORTEN THOMAS ; THOMAS ORTEN ; ULRICH BEHREND

Inventor(s): U BEHREND ; FLORIAN FISCHER ; G CORNILS ; F FISHER

Agent(s): HITOSHIO AKIO; KAWAGUCHI YOSHIO; OSAKI KATSUMASA

Designated states: AT BE BR CH CN CY CZ DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL PL PT SE TR US

International class (IPC 8–9): B60J1/02 B60J10/02 (Advanced/Invention); B60J1/02 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J1/02 B60J1/10 B60J1/18 B60J10/02

CPC: B60J10/70 B60J1/02

European class: B60J1/02 B60J10/02

US class: 296/146.15 296/201 296/93 296/96.21 52/208

Classification Explorer

Cited documents: USRE37395 E, US6158372 A, US6039907 A, US5988730 A, US5935356 A, US5711119 A, US5692953 A, US5603546 A, US5584526 A, US5522636 A, US5507994 A, US5421940 A, US5396746 A, US5352010 A, US5001876 A, US4938526 A, US4584155 A, US347491 A, JP6401621, JP64001621 A2, JP6078029 U, JP58189481 A2, JP0678029 U, FR2754503 A1, EP0742762 B1, EP0611672 A2, EP0490092 A2, EP0401091 A1, EP0163195 A2, EP0145443 B1, EP0127546 A1, DE9113392 U, DE8707322 U, DE4445258 A1, DE4326650 A1, DE4232554 C1, DE3843079 A1, DE3821457 A1, DE3702555 C2, DE3702555 A1, DE3606810 A1, DE3604389 A1, DE04232554,

Forward Citations: WO17089702, WO16189238, WO16128683, WO16124868, WO14177329, WO13120671, WO13091919, WO0185481, US9694659, US9688128, US9399393, US9227498, US9216633, US9168879, US9073421, US9056544, US8998297, US8777298, US8757706, US8714625, US7988223, US7621585, US7438352, US2015197143, US2015091332, US2013214560, US2013033071, US2011121594, US2008067830, US2007029130, US2006008625, US2005284047, US2005218557, US2005179285, US2005132661, JP2007269108, EP2285612, EP1607260, EP1607260, EP1433632, DE202012102712, DE10247229, DE10247229, DE102013012628, DE102012102760, DE102012008934, DE102011056955, DE102011056955, DE102008003252, CZ302211, CN103386932, CN103386932, CN102777104, CN102777104,

Abstract:
Source: US2003006623A A device is provided for assembling a fixed−mount vehicle window glass, particularly a windshield, with a component contiguous with one edge of the vehicle window glass, such as a water tray. A profiled part is fixed to the edge of the window glass. The profiled part may be a profiled strip that adheres to the vehicle window glass, and has a lip which joins smoothly and continuously with the free main face of the vehicle window glass. On its underside, the lip may include means of assembly with the component.

0) US6276743B – LATCHING MECHANISM FOR A MOTOR VEHICLE DOOR

63) Family number: 15647314 (US6276743B) © PatBase

Title: Latching mechanism for a motor vehicle door

Priority: US19990342485 19990629

Family:

Publication number	Publication date	Application number	Application date
US6276743 BA	20010821	US19990342485	19990629

Probable Assignee: FCA US LLC

Assignee(s):(std)**:** DAIMLER CHRYSLER CORP

Assignee(s): DAIMLERCHRYSLER CO ; DAIMLERCHRYSLER CORP ; WILMINGTON TRUST CO ; NEW CARCO ACQUISITION LLC ; UNITED STATES DEPARTMENT OF TREASURY ; US DEPARTMENT OF TREASURY ; DAIMLERCHRYSLER CO LLC ; JPMORGAN CHASE BANK NA ; FCA US LLC ; FCA US LLC WAS KNOWN AS CHRYSLER GROUP LLC.. ; CHRYSLER GROUP GLOBAL ELECTRIC MOTORCARS LLC ; CHRYSLER GROUP LLC ; CHRYSLER LLC ; CITIBANK NA

Inventor(s):(std)**:** BROCK WAINE T ; FAUBERT ROBERT J ; JYAWOOK JAIME N ; KAPES RICHARD C ; MANNING RICHARD A ; SPIELES KENNETH E

International class (IPC 8–9): B60J5/06 B60J5/10 (Advanced/Invention); B60J5/06 B60J5/10 (Core/Invention)

International class (IPC 1–7): B60J5/06

CPC: B60J5/06 B60J5/101 B60J5/107

European class: B60J5/06 B60J5/10 B60J5/10C B60J5/10C5

US class: 296/155 49/280 49/360

Classification Explorer

Cited documents: US6125583 A, US6079767 A, US5921612 A, US5836639 A, US5833301 A, US5618068 A, US5605363 A, US5564761 A, US5203112 A, US5155937 A, US5083397 A, US4968074 A, US4848031 A, US4763936 A, US4739585 A, US4640050 A, US4530185 A, DE3636789 A1,

Forward Citations: WO0206069, US9366061, US8764090, US8328270, US7810282, US7625031, US7533920, US7525272, US7484784, US7434854, US7175228, US7144068, US7144068, US7093887, US7070226, US7003915, US6942258, US6854212, US6799669, US6793268, US6739633, US6719356, US6651387, US6553719, US6435600, US2013060403, US2012139287, US2012049544, US2008122246, US2008100085, US2008100084, US2008072497, US2008054667, US2007273160, US2006220416, US2005168010, US2005110300, US2005039405, US2005039404, US2004172884, US2004093919, US2003050151, EP1296844,

Abstract:
Source: US6276743B A power latching mechanism having a latch ratchet, a pawl member, a latch sector and a drive assembly. The latch ratchet is configured to selectively engage or disengage a member to secure the vehicle door to or release the vehicle door from the vehicle body. The latch ratchet is operable between a fully unlatched position and a fully latched position. The latch sector is pivotably coupled to the latch ratchet and is operable between a first extended position, a neutral position and a second extended position. The drive assembly is coupled to the latch sector and operable for selectively moving the latch sector from the neutral position to the first and second extended positions. Placement of the latch sector in the neutral position does not effect the operation the latch ratchet. Accordingly, the latch ratchet may be actuated manually to either latch or unlatch the vehicle door when the latch sector is in the returned position. Placement of the latch sector in the first extended position causes the latch ratchet to move to the fully latched position. Placement of the latch sector in the second extended position causes the latch ratchet to move to the fully unlatched position. The preferred embodiment includes a clutch mechanism which permits the latch sector to move to the neutral position when the drive assembly is not in use. The preferred embodiment also includes an unlatching mechanism which is operable for manually releasing the latch ratchet from the fully latched position.

0) US6486423B – SLIDING CONTACT MECHANISM

64) Family number: 15496159 (US6486423B)

© PatBase

Title: Sliding contact mechanism

Priority: US20000588819 20000607

Family:

Publication number	Publication date	Application number	Application date
DE10127638 A1	20020228	DE20011027638	20010607
GB200113859 A0	20010801	GB20010013859	20010607
GB2363254 A1	20011212	GB20010013859	20010607
JP2002063963 A2	20020228	JP20010173013	20010607
US6486423 BA	20021126	US20000588819	20000607

Probable Assignee: METHODE ELECTRONICS INC

Assignee(s):(std)**:** METHODE ELECTRONICS INC

Inventor(s):(std)**:** KARASIK VLADIMIR ; KHOURY JOSEPH ; KHOURY JOSEPH E ; ALLEN SHELDON J

Inventor(s): JOSEPH E KHOURY ; SHELDON J ALLEN ; VLADIMIR KARASIK

International class (IPC 8–9): B60J5/00 B60J5/06 H01H1/18 H01H1/44 H01R13/24 (Advanced/Invention); H01H1/06 H01H1/46 (Advanced/Non–invention); B60J5/00 B60J5/06 H01H1/12 H01R13/22 (Core/Invention); H01H1/06 (Core/Non–invention)

International class (IPC 1–7): B60J5/00 B60J5/06 B60R16/02 H01H1/12 H01H1/18 H01H1/44 H01H3/16 H01R13/24

CPC: H01H1/06 H01H1/18 H01H1/44 H01H1/46

European class: H01H1/18 H01H1/44 T01H1/06 T01H1/46

US class: 200/241 200/279 200/61.62 200/61.71 200/61.81

Classification Explorer

Cited documents: US5960939 A, US4556765 A, US4527023 A, US3659063 A, US3591740 A, GB2169143 A1, GB1247187 A,

Forward Citations: US7361855, US7141750, US7114973, US6900399, US2007063586, US2006180446, US2005215126,

Abstract:
Source: US6486423B A sliding contact mechanism includes a sliding door contact, a spring having one end connected to the sliding door contact and another end connected to the sliding door of a mini–van, and a pillar contact attached to the stationary pillar of the mini–van. The pillar contact has a shape complementary to a shape of the sliding door contact. When the sliding door is in a closed position, the sliding door is adjacent the pillar and the sliding door contact engages and is in a closed electrical connection with the pillar contact. When the sliding door is in an open position, the sliding door is not adjacent the pillar and the sliding door contact is an open electrical connection with the sliding door contact.

0) US2003096904A – CURABLE COMPOSITION AND ITS USE

65) Family number: 16056756 (US2003096904A) © PatBase

Title: CURABLE COMPOSITION AND ITS USE

Priority:

JP20000224004 20000725	JP20000224005 20000725	JP20000224006 20000725
JP20000224007 20000725	JP20000224009 20000725	JP20000224008 20000725
JP20000224010 20000725	JP20000224011 20000725	JP20000224076 20000725
JP20000224073 20000725	JP20000224075 20000725	JP20000224072 20000725
JP20000224074 20000725	JP20000224072 20060725	JP20060224072 20060725
US20060515318 20060905	US20020070507 20020307	JP20000224077 20000725
JP20000224228 20000725	WO2001JP06375 20010724	JP20000229040 20000725
JP20000229035 20000725	JP20000229037 20000725	JP20000229038 20000725
JP20000229039 20000725	JP20000224078 20000725	JP20000224224 20000725
JP20000224225 20000725	JP20000229042 20000725	JP20000229043 20000725

Family:

Publication number	Publication date	Application number	Application date
CN100480324 C	20090422	CN20018002925	20010724
CN1392890 A	20030122	CN20018002925	20010724
CN1590457 A	20050309	CN200410056701	20010724
DE60126285 D1	20070315	DE20016026285	20010724
DE60126285 T2	20071122	DE20016026285T	20010724
EP1304354 A1	20030423	EP20010951995	20010724
EP1304354 A4	20050914	EP20010951995	20010724
EP1304354 B1	20070124	EP20010951995	20010724
JP2002037860 A2	20020206	JP20000229040	20000725
JP2002037941 A2	20020206	JP20000224004	20000725
JP2002037942 A2	20020206	JP20000224005	20000725
JP2002037943 A2	20020206	JP20000224006	20000725
JP2002037944 A2	20020206	JP20000224007	20000725
JP2002037945 A2	20020206	JP20000224008	20000725
JP2002037946 A2	20020206	JP20000224009	20000725
JP2002037947 A2	20020206	JP20000224010	20000725
JP2002037948 A2	20020206	JP20000224011	20000725
JP2002037949 A2	20020206	JP20000224072	20000725
JP2002037950 A2	20020206	JP20000224073	20000725
JP2002037951 A2	20020206	JP20000224075	20000725
JP2002037952 A2	20020206	JP20000224076	20000725
JP2002037953 A2	20020206	JP20000224077	20000725
JP2002037954 A2	20020206	JP20000224078	20000725
JP2002037957 A2	20020206	JP20000224224	20000725
JP2002037958 A2	20020206	JP20000224225	20000725
JP2002037960 A2	20020206	JP20000229035	20000725
JP2002037961 A2	20020206	JP20000229037	20000725
JP2002037962 A2	20020206	JP20000229038	20000725
JP2002037963 A2	20020206	JP20000229039	20000725
JP2002038074 A2	20020206	JP20000224228	20000725
JP2002038115 A2	20020206	JP20000224074	20000725
JP2002038128 A2	20020206	JP20000229042	20000725
JP2002038129 A2	20020206	JP20000229043	20000725
JP4061824 B2	20080319	JP20000229035	20000725
JP4061826 B2	20080319	JP20000229037	20000725
JP4061827 B2	20080319	JP20000229038	20000725

JP4061828 B2	20080319	JP20000229039	20000725	
JP4120138 B2	20080716	JP20000229042	20000725	
JP4120139 B2	20080716	JP20000229043	20000725	
JP4361199 B2	20091111	JP20000224225	20000725	
JP4554042 B2	20100929	JP20000224228	20000725	
US2003096904 AA	20030522	US20020070507	20020307	
US2007015893 AA	20070118	US20060515318	20060905	
US7176269 BB	20070213	US20020070507	20020307	
WO0208333 A1	20020131	WO2001JP06375	20010724	

Probable Assignee: MITSUI CHEMICALS INC

Assignee(s):(std)**:** ABE TAKASHI ; ARINO MITSUNAO ; HAKUTA TAKASHI ; KAWASAKI MASAAKI ; MITSUI CHEMICALS INC ; KIKUCHI YOSHIHARU ; NAGAI MITSUKO ; SAKAGUCHI HIROAKI ; SUGAWARA MASAKI ; KISHI MASAO ; SEKINE MICHIO ; UENO KAORU

Inventor(s):(std)**:** MASAAKI KAWASAKI ; TAKASHI HAKUTA ; YOSHIHARU KUKUCHI ; YOSHIHARU KIKUCHI ; UENO KAORU ; TAKASHI ABE ; SUGAWARA MASAKI ; SEKINE MICHIO ; SAKAGUCHI HIROAKI ; NAGAI MITSUKO ; MITSUNAO ARINO ; MITSUKO NAGAI ; MICHIO SEKINE ; MASAO KISHI ; MASAKI SUGAWARA ; KISHI MASAO ; KIKUCHI YOSHIHARU ; KAWASAKI MASAAKI ; KAORU UENO ; HIROAKI SAKAGUCHI ; HAKUTA TAKASHI ; ARINO MITSUNAO ; ABE TAKASHI ; SUGAWARA MASANORI ; SHIRATA TAKASHI ; SAKAGUCHI HIROHIDE ; KUKUCHI YOSHIHARU ; ARINO YASUOMI ; ABE KOJI ; ARINO TAKAMASA

Agent(s): BUCHANAN INGERSOLL AND ROONEY PC

Designated states: CN DE FR GB KR US

International class (IPC 8–9)**:** A42B1/12 A61L31/00 A63B33/00 A63B71/14 B60J1/02 B65H27/00 B65H3/06 C03C27/12 C08F210/16 C08F210/18 C08F230/02 C08F230/08 C08F236/20 C08F8/42 C08G59/40 C08G77/60 C08J3/24 C08J9/02 C08K3/00 C08K3/06 C08K3/26 C08K3/34 C08K5/00 C08K5/05 C08K5/057 C08K5/08 C08K5/09 C08K5/092 C08K5/098 C08K5/10 C08K5/101 C08K5/14 C08K5/17 C08K5/36 C08K5/521 C08K5/54 C08K5/541 C08K5/5415 C08K5/5435 C08K5/544 C08K5/5445 C08K5/56 C08K5/57 C08K5/58 C08L101/00 C08L101/10 C08L21/00 C08L23/16 C08L23/26 C08L43/02 C08L47/00 C08L63/00 C08L83/04 C08L91/00 C09D121/00 C09D123/16 C09D123/26 C09D163/00 C09D183/04 C09D183/10 C09D185/00 C09D201/00 C09D4/06 C09D5/00 C09J121/00 C09J123/16 C09J123/26 C09J147/00 C09J163/00 C09J183/04 C09J183/10 C09J185/00 C09J201/00 C09J4/06 C09J7/00 C09J7/02 C09K3/00 C09K3/10 F16F15/08 F16J15/10 F16J15/14 H01F27/32 H01F5/06 H01L23/29 H01L23/31 H05K3/28 (Advanced/Invention); B65H3/06 C08L83/04 F16F15/08 (Advanced/Non–invention); A42B1/04 A61L31/00 A63B33/00 A63B71/08 B60J1/02 B65H27/00 B65H3/06 C03C27/12 C08F210/00 C08F230/00 C08F236/00 C08F8/00 C08G59/00 C08G77/00 C08J3/24 C08J9/00 C08K3/00 C08K5/00 C08L101/00 C08L21/00 C08L23/00 C08L43/00 C08L47/00 C08L63/00 C08L83/00 C08L91/00 C09D121/00 C09D123/00 C09D163/00 C09D183/04 C09D183/10 C09D185/00 C09D201/00 C09D4/06 C09D5/00 C09J121/00 C09J123/00 C09J147/00 C09J163/00 C09J183/00 C09J185/00 C09J201/00 C09J4/06 C09J7/00 C09J7/02 C09K3/00 C09K3/10 F16F15/08 F16J15/02 F16J15/10 H01F27/32 H01F5/06 H01L23/28 H05K3/28 (Core/Invention); B65H3/06 C08L83/00 F16F15/08 (Core/Non–invention)

International class (IPC 1–7)**:** A42B1/12 A61L31/00 A63B33/00 A63B71/14 B60J1/02 B65H27/00 B65H3/06 C03C27/12 C08F210/18 C08F230/02 C08F230/08 C08F236/20 C08F8/42 C08G59/40 C08J3/00 C08J3/24 C08J9/02 C08K3/00 C08K3/06 C08K3/26 C08K3/34 C08K5/00 C08K5/05 C08K5/057 C08K5/08 C08K5/09 C08K5/092 C08K5/098 C08K5/10 C08K5/101 C08K5/14 C08K5/17 C08K5/36 C08K5/521 C08K5/541 C08K5/5415 C08K5/5435 C08K5/544 C08K5/5445 C08K5/56 C08K5/57 C08K5/58 C08L101/00 C08L101/10 C08L21/00 C08L23/16 C08L23/26 C08L43/02 C08L47/00 C08L63/00 C08L83/04 C08L91/00 C09D121/00 C09D123/16 C09D123/26 C09D147/00 C09D163/00 C09D183/04 C09D183/10 C09D185/00 C09D201/00 C09D4/06 C09D5/00 C09J121/00 C09J123/16 C09J123/26 C09J147/00 C09J163/00 C09J183/04 C09J183/10 C09J185/00 C09J201/00 C09J4/06 C09J7/00 C09J7/02 C09K3/00 C09K3/10 E04B1/66 F16F15/08 F16J15/10 F16J15/14 H01F27/32 H01F5/06 H01L23/29 H01L23/31 H05K3/28

CPC: B32B17/1055 C08F210/18 C08F230/08 C08L23/16 C08L83/04 C08L2312/08 C09D123/16 C09J123/16 B32B17/10302

European class: B32B17/10E16B B32B17/10G C08F210/18 C08F230/08 C08L23/16 C09D123/16 C09J123/16 M08F210/18 M08L312/08 M08L83/04

US class: 524/425 524/435 524/451 524/588 525/100 525/104 525/476 525/477 528/18 528/26 528/29 528/34 528/34P 528/35 528/35S 528/38

Classification Explorer

Cited documents: WO0107490 A1, US7601781 BB, US7388038 BB, US7176269 BB, US7081494 BB, US6608144 BA, US6525110 BA, US6468583 BA, US6329460 BA, US5821290 A, US5171816 A, US5034490 A, US4904732 A, US4798864 A, US4759992 A, US4477628 A, US4153765 A, US4043953 A, US4028483 A, US3503943 A, JPS63238133, JPS63108015, JPS62273271, JPS58173106, JPB263047747 B2, JP9302213 A2, JP9291116 A2, JP9286895 A2, JP8231758 A2, JP8041360 A2, JP8041349 A2, JP7096648 B4, JP64075567 A2, JP63238133 A2, JP63108015 A2, JP63047747 B4, JP63047747 B2, JP63006041 A2, JP62280217 A2, JP62273271 A2, JP61060771 A2, JP61034067 A2, JP61034066 A2, JP59071377 A2, JP58173106 A2, JP57182350 A2, JP57063351 A2, JP54036395 A2, JP52073998 A2, JP52033989 A2, JP5117518 A2, JP5112684 A2, JP5112684 A1, JP50156599 A2, JP4292616 A2, JP4103606 A2, JP2196842 A2, JP2185565 A2, JP2117955 A2, JP2097562 A2, JP2001031719 A2, JP2000660 A2, JP2000191912 A2, JP1252670 A2, JP11158331 A2, JP11116832 A2, JP1075567 A2, JP10316804 A2, JP10204303 A2, JP10182992 A2, JP10152584 A2, EP1116731 A1, EP1004628 A1, EP0934984 A1, EP0934956 A1, EP0896982 A1, EP0855426 A1, EP0839872 A2, EP0807660 A2, EP0572927 A1, EP0538880 A2, EP0307954 A2, EP0268780 A2, EP0260103 A1, EP0173303 A2, EP0050248 A2, CN1203613 A, CN1148606 A,

Forward Citations: WO14127162, WO13090127, WO12133264, WO12072504, WO10113004, WO10113004, WO10064574, WO10042175, WO10042134, WO10008943, WO10008943, WO09080235, WO09013308, WO08089018, WO08089018, WO08080447, WO08070075, WO07032885, WO07032885, WO05060472, WO04050213, WO02094962, US9771463, US9682175, US9663657, US9656911, US9592324, US9546296, US9545177, US9492596, US9469799, US9458329, US9452569, US9427423, US9376552, US9371422, US9278161, US9249283, US9193856, US9181379, US9175187, US9153377, US9139699, US9105382, US9080065, US9023932, US9012506, US9000040, US8962724, US8912253, US8907024, US8901195, US8871855, US8858978, US8852732, US8841358, US8795703, US8772388, US8759435, US8748544, US8742032, US8742006, US8586688, US8574627, US8501229, US8487034, US8470441, US8395146, US8378094, US8367099, US8312836, US8293322, US8263102, US8198345, US8124127, US8110036, US8080308, US8048819, US8030427, US8003744, US7981317, US7956122, US7910682, US7901016, US7854814, US7834090, US7781525, US7763673, US7759425, US7723405, US7709588, US7660505, US7605220, US7534820, US7511102, US7485810, US7329693, US7323582, US7235280, US7221841, US7129415, US7015292, US6849754, US2016372645, US2014341485, US2013274410, US2013230666, US2013040392, US2013020744, US2011250352, US2011236699, US2011232738, US2011204350, US2011180957, US2011172372, US2011168239, US2011151265, US2011045275, US2011033719, US2011023944, US2011021737, US2010286343, US2010280239, US2010280164, US2010267869, US2010255224, US2010255186, US2010233232, US2010179078, US2010092710, US2010083871, US2009324875, US2009315214, US2009314482, US2009297780, US2009281253, US2009254171, US2009230085, US2009186977, US2009181937, US2009127801, US2009102280, US2009087635, US2009047414, US2009036609, US2009029287, US2009011116, US2008312401, US2008277137, US2008269405, US2008269392, US2008206305, US2008188624, US2008171210, US2008118550, US2008113001, US2008109017, US2008051547, US2008033087, US2008021140, US2007282080, US2007248909, US2007202149, US2007166542, US2007157457, US2007084622, US2007071798, US2007066699, US2007043198, US2007015893, US2006293482, US2006293172, US2006199933, US2006198953, US2006128919, US2006110457, US2006078586, US2006067983, US2005277734, US2005100676, US2005089290, US2004180154, TWI589647, TWI564973, KR101740080, KR101188769, KR100728442, JP5898675, JP5780393, JP5764036, JP5723372, JP5565220, JP5563989, JP5543685, JP5454115, JP4851058, JP4851058, JP4704016, JP4521279, JP4147897, JP4034150, JP2016101518, JP2015520247, JP2014527502, JP2013518971, JP2013505331, JP2013087273, JP2012133264, JP2012101857, JP2012056976, JP2012040490, JP2011526311, JP2011122101, JP2010205493, JP2009507986, JP2009035591, JP2008195895, JP2008121228, JP2008120859, JP2008007542, JP2006321938, JP2006307047, JP2006225530, JP2006199772, JP2006160926, JP2006160826, JP2005336490, JP2004149554, JP2004099633, JP2004050213, JP2002146145, JP2002053712, EP2072568, EP1939246, EP1285926, DE102010062186, CN104870515, CN104387941, CN104114598, CN104114598, CN103904530, CN103582498, CN103507360, CN103500767, CN103290932, CN103290932, CN102939651, CN102712814, AU2008293961, AU2008293961, AU2008293961,

Abstract:
Source: US2003096904A The curable composition of the present invention contains (A1) a silyl−containing ethylene/alpha−olefin/non−conjugated polyene random copolymer rubber which has a structural unit derived from

a norbornene compound as the non−conjugated polyene with at least one specific vinyl group at the terminal and contains a specific hydrolyzable silyl group, and (B) a compound, other than the rubber (A1), having a hydroxyl group and/or a hydrolyzable group, e.g., (B1) a compound having a silanol group and/or a compound which can react with moisture to form a compound having a silanol group in the molecule. This compound improves elongation of the cured product and residual surface tackiness, and, at the same time, is high in curing speed and capable of giving the cured product of high resistance to weather. It is suitable for, e.g., adhesives, tackifiers, paints, sealants, waterproof materials, spray materials, shaping materials and casting rubber materials.

0) US2002093222A – INTEGRATED STEERING COLUMN, INSTRUMENT PANEL, A...

66) Family number: 28231291 (US2002093222A) © PatBase

Title: Integrated steering column, instrument panel, and cowl body structure

Priority: US20000695340 20001024 US20010035781 20011226 US20010035782 20011226

Family:

Publication number	Publication date	Application number	Application date
US2002093222 AA	20020718	US20010035781	20011226
US2002093223 AA	20020718	US20010035782	20011226
US6371551 BA	20020416	US20000695340	20001024
US6488330 BB	20021203	US20010035781	20011226
US6517145 BB	20030211	US20010035782	20011226

Probable Assignee: FORD GLOBAL TECH INC

Assignee(s):(std)**:** FORD GLOBAL TECH INC ; HEDDERLY GREGORY THOMAS

Assignee(s): FORD GLOBAL TECHNOLOGIES INC ; FORD MOTOR CO

Inventor(s):(std)**:** HEDDERLY GREGORY THOMAS

International class (IPC 8–9): B60K37/00 B62D25/14 (Advanced/Invention); B60K37/00 B62D25/14 (Core/Invention)

International class (IPC 1–7): B60J7/00 B60N2/00 B62D25/14

CPC: B60K37/00 B62D25/14

European class: B60K37/00 B62D25/14

US class: 180/90 296/192 296/193.02 296/194 296/203.02 296/70 296/701 296/72

Classification Explorer

Cited documents: US6450533 BA, US6371551 BA, US6315347 BA, US6276739 BA, US6237956 BA, US6231116 BA, US6073987 A, US5992925 A, US5957498 A, US5934744 A, US5931520 A, US5868426 A, US5857726 A, US5823602 A, US5762395 A, US5707100 A, US5685598 A, US5676216 A, US5580122 A, US5564769 A, US5564515 A, US5556153 A, US5387023 A, US5364159 A, US5324203 A, US5312133 A, US5311960 A, US5273310 A, US5005898 A, US2001024035 AA, EP0374975 B1,

Forward Citations: WO06133260, WO05021362, WO03078187, US9688005, US9682731, US9682729, US9623798, US9446540, US9434095, US9233415, US9193394, US9186993, US9174537, US9022459, US8851550, US8616606, US8590931, US8480164, US8449013, US8424947, US8424207, US8317964, US8177277, US8167072, US8123284, US8104819, US8066315, US8038205, US7955167, US7850226, US7849601, US7841648, US7810876, US7810874, US7805815, US7798560, US7717465, US7703841, US7677649, US7618087, US7597377, US7594690, US7591502, US7571954, US7527224, US7401835, US7374224, US7370719, US7284789, US7264295, US7150488, US7150488, US7118166, US7118166, US7116559, US7044538, US7044538, US7017250, US6834913, US6769733, US6767050, US6739647, US6705671, US6695374, US6601909, US6554352, US6536802, US6517138, US6488330, US6481786, US6460427, US2014361572, US2014239663, US2013214552, US2012274090, US2012256439, US2012118653, US2012001455, US2011215614, US2011193332, US2011181066, US2011094819, US2011027607, US2010176262, US2010101090, US2010058795, US2009049660, US2008315612, US2008315610, US2008308334, US2008265607, US2008201952, US2008169686, US2008169685, US2008169684, US2008169683, US2008169682, US2008169681, US2008169680, US2008169679, US2008169677, US2008169671, US2008169666, US2008169665, US2008169660, US2008168644, US2008067835, US2008012376, US2007149104, US2007024090, US2006214461, US2006186650, US2006138804, US2006038090, US2005275238, US2005253423, US2005248175, US2005217913, US2005068747, US2004242026, US2004207228, US2004090088, US2003205916, US2003193214, US2003122404, KR100953384, FR2965540, EP2543574, EP1503927, DE102010004291, DE102010004291, DE102005039326, CN104110459, CN104002682,

Abstract:
Source: US2002093222A An integrated front body clip including an instrument panel support structure, steering column support structure, and cowl structure forming a shared, dependent, and complementary support structure between the A−Pillars of a vehicle. Front and rear magnesium casting, each having a plurality of cast in features, are clamshelled into a single integrated clip. The resultant integrated front body clip offers substantial weight and improves the torsional and bending strength characteristics as compared with traditional steel structures. By maximizing cast in features, redundancy between competing parts is eliminated with an increase in dimensional control. Further, by creating a hollow region within the resultant clip structure, heated or cooled air may be moved without complex ductwork. In an alternative preferred embodiment, the front casting is provided in three modular parts that may be arranged for use in left−side or right−side driving vehicles.

0) US2002153744A – METHOD FOR OPERATING A VEHICLE POWER SLIDING DO...

67) Family number: 28303078 (US2002153744A) © PatBase

Title: METHOD FOR OPERATING A VEHICLE POWER SLIDING DOOR

Priority: US19990469039 19991221 US20020178293 20020624

Family:

Publication number	Publication date	Application number	Application date
US2002153744 AA	20021024	US20020178293	20020624
US6435600 BA	20020820	US19990469039	19991221
US6588829 BB	20030708	US20020178293	20020624

Probable Assignee: FCA US LLC

Assignee(s):(std): DAIMLER CHRYSLER CORP ; LONG RICHARD L ; FAUBERT ROBERT J ; KAPES RICHARD C ; MCGETTRICK THOMAS L ; ATOMA INT CORP ; ABRAHAM JASON ; WILLIAM ROBERT M

Assignee(s): ATOMA INT ; CHRYSLER GROUP GLOBAL ELECTRIC MOTORCARS LLC ; CHRYSLER GROUP LLC ; CHRYSLER LLC ; CITIBANK NA ; JPMORGAN CHASE BANK NA ; FCA US LLC ; FCA US LLC WAS KNOWN AS CHRYSLER GROUP LLC.. ; UNITED STATES DEPARTMENT OF TREASURY ; WILMINGTON TRUST CO ; US DEPARTMENT OF TREASURY ; DAIMLERCHRYSLER CORP ; NEW CARCO ACQUISITION LLC ; DAIMLERCHRYSLER CO ; DAIMLERCHRYSLER CO LLC

Inventor(s):(std): ABRAHAM JASON ; FAUBERT ROBERT J ; KAPES RICHARD C ; LONG RICHARD L ; MCGETTRICK THOMAS L ; WILLIAM ROBERT M ; WILLIAMS JR ROBERT M

International class (IPC 8–9): B60J5/06 E05F15/14 E05F15/20 (Advanced/Invention); E05F15/00 (Advanced/Non–invention); B60J5/06 E05F15/14 E05F15/20 (Core/Invention); E05F15/00 (Core/Non–invention)

International class (IPC 1–7): B60J5/04 B60J5/06

CPC: E05Y2201/462 E05Y2800/11 E05Y2800/113 E05Y2800/232 E05Y2800/254 E05Y2800/70 E05Y2400/854 E05Y2800/426 E05Y2400/53 E05Y2400/44 E05Y2800/114 E05Y2400/856 E05F15/695 E05Y2900/55 E05F15/659 E05F15/40 B60J5/06 E05F15/632 E05F15/70 E05Y2201/22 E05Y2201/246 E05Y2400/445 E05Y2900/531 E05Y2900/546

European class: B60J5/06 E05F15/14 E05F15/20 P05F15/00B P05Y201/216 P05Y201/22 P05Y201/246 P05Y201/462 P05Y800/11 P05Y800/113 P05Y800/232 P05Y800/254 P05Y800/70 P05Y900/531

US class: 296/155 296/155P 49/280 49/360

Classification Explorer

Cited documents: US6276743 BA, US6256930 BA, US6189406 BA, US6174020 BA, US6091162 A, US6089649 A, US6079767 A, US5867940 A, US5836639 A, US5833301 A, US5758453 A, US5618080 A, US5618068 A, US5536061 A, US5483769 A, US5351441 A, US5239779 A, US5203112 A, US5189839 A, US5155937 A, US5140316 A, US5105131 A, US5076016 A, US5063710 A, US5039925 A, US4945677 A, US4887390 A, US4855653 A, US4640050 A, US4612729 A, US4098023 A, JPS60199722, JP60199722 A2,

Forward Citations: WO05042893, US9677318, US9677315, US9677313, US9593520, US9523231, US9447612, US9404430, US9333930, US9080354, US9067489, US8872447, US8794688, US8505241, US8464469, US8375633, US8328270, US8226153, US8096605, US7997639, US7941972, US7937893, US7902782, US7814704, US7810282, US7808197, US7576502, US7525272, US7509773, US7438346, US7370905, US7353930, US7339338, US7325361, US7243978, US7243461, US7204544, US7175228, US7171908, US7156447, US7144068, US7144068, US7107721, US7093887, US7026777, US7025401, US7007427, US6989767, US6814394, US6807775, US6799669, US6781058, US6739646, US6729072, US6633094, US2016201377, US2016052376, US2015275563, US2015267629, US2014365079, US2014352216, US2012323471, US2012139287, US2011078954, US2010312395, US2009286461, US2009200833, US2009113801, US2009091438, US2009033256, US2008202029, US2008122246, US2008072497, US2008047199, US2008001563, US2007130837, US2007107313, US2007085374, US2007085373,

US2007027587, US2006225358, US2006220416, US2006175175, US2006158144, US2006096383, US2006064934, US2006048451, US2005252089, US2005146159, US2005110300, US2005067990, US2005039404, US2005035623, US2004239269, US2004221511, US2004216383, US2004211336, US2004177560, US2004163318, US2004070231, US2004055110, US2004046401, US2003050151, US2003025337, US2003019157, FR2856015, FR2851606, CN102828657,

Abstract:
Source: US2002153744A A method is provided for controlling a power sliding door system having a power drive mechanism for propelling the sliding door and a power latching mechanism for latching the sliding door in a latched condition. The methodology provides enhanced monitoring and control of the power sliding door system to improve the operation of the sliding door in both the power−assisted and manual modes. The control methodology inhibits the operation of the power sliding door system in response to the actuation of any of the sliding door handles or if a fuel door is in the path of the sliding door. The control methodology also inhibits the operation of the sliding door system if a child guard mechanism is enabled. The control methodology includes an obstacle detection routine which detects obstacles in two directions of travel. The control methodology does not require the power drive mechanism or inertia to cause the latch mechanism to latch the sliding door in the latched condition.

0) US2004187260A – MOTOR VEHICLE DOOR HINGE

68) Family number: 30174231 (US2004187260A) © PatBase

Title: MOTOR VEHICLE DOOR HINGE

Priority: DE19772740256 19770907 DE20011018301 20010412 DE20022021632U 20020412 DE20022021633U 20020412 WO2002DE01374 20020412

Family:

Publication number	Publication date	Application number	Application date
DE10118301 A1	20021024	DE20011018301	20010412
DE10118301 B4	20110120	DE20011018301	20010412
DE20221632 U1	20070104	DE20022021632U	20020412
DE20221633 U1	20061228	DE20022021633U	20020412
EP1379748 A1	20040114	EP20020740256	20020412
JP2004526086 T2	20040826	JP20020581784T	20020412
JP4087254 B2	20080521	JP20020581784T	20020412
US2004187260 AA	20040930	US20040474568	20040519
US7103938 BB	20060912	US20040474568	20040519
WO02084058 A1	20021024	WO2002DE01374	20020412

Probable Assignee: EDSCHA AG

Assignee(s):(std)**:** BRUECKNER LOTHAR ; EDSCHA AG ; GARBE WOLFGANG ; MAGNUS NILS

Assignee(s): BRUCKNER LOTHAR

Inventor(s):(std)**:** BRUCKNER LOTHAR ; BRUECKNER LOTHAR ; GARBE WOLFGANG ; MAGNUS NILS

Agent(s): NAKAMURA GIHEI; NODA HISATO; SAKAI MASAYUKI; HORII YUTAKA; MORITA TOSHIO; FUKAMI HISAO; DAVIDSON DAVIDSON AND KAPPEL LLC

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE TR US

International class (IPC 8–9): B60J5/04 E05C17/02 E05D11/10 E05D9/00 (Advanced/Invention); E05D5/06 (Advanced/Non–invention); B60J5/04 E05C17/00 E05D11/00 (Core/Invention); E05D5/00 (Core/Non–invention)

International class (IPC 1–7): B60J5/04 E05C17/02 E05D11/10 E05D5/06 E05D9/00

CPC: E05D11/06 E05D11/1057 E05D2011/1035 E05D5/14 E05D11/1085 E05D5/062 E05Y2900/531 Y10T16/54028 Y10T16/54029 Y10T16/540257

European class: E05D11/10E3A E05D11/10E4A P05D11/06 P05D11/10E1 P05D5/06A P05Y900/531

US class: 16/332 16/334 16/334P 16/335

Classification Explorer

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Abstract:
Source: US2004187260A The invention relates to a motor vehicle door hinge comprised of a first hinge part (2), a second hinge part (3), a shaft section (4), which joins a hinge eye (10) of the first hinge part (2) and a hinge eye (17) of the second hinge part (17) to one another in an articulated manner, and of a door arrester unit (25), which

produces a holding force that is to be surmounted by tensioning a spring unit (32). Preferred holding angles of the door arrester unit (25) are stipulated by detent markings. The aim of the invention is to create a motor vehicle door hinge that can be economically produced and mounted. To this end, the hinge parts (2, 3) are provided in the form of U–shaped sheet metal shaped parts with hinge eyes (10, 11; 17, 18) that are placed in limbs (6, 7; 15, 16) of the hinge parts (2, 3), and the shaft section (4) is prevented from rotating with the one (26) of the cam disk (30) and detent disk (26) that is subjected to the action of the spring unit (32), whereas the other (30) of the cam disk (30) and detent disk (26) is joined in a non–rotatable manner to the hinge part (3) in which the shaft section can rotate.

69) Family number: 28332838 (US2003039173A) © PatBase

Title: METHODS FOR REDUCING RINGING OF ULTRASONIC TRANSDUCERS

Priority:

DE19944448039	19940330	DE19944492128	19940330	US19820389947	19820618
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Inventor(s): JOHNSON WENDELL ; DUVALL WILBUR ; BREED DAVID ; DAVIS STUART ; BREED RYAN

Agent(s): BRIAN ROFFE ESQ; BRIAN; ROFFE BRIAN; BRIAN ROFFE

International class(IPC 8–9)**:** B06B1/02 B60C23/00 B60C23/04 B60H1/00 B60H1/32 B60J10/00 B60K28/00 B60K28/02 B60N2/00 B60N2/015 B60N2/02 B60N2/06 B60N2/28 B60N2/427 B60N2/48 B60N2/66 B60Q1/00 B60Q1/14 B60R1/00 B60R16/02 B60R16/037 B60R21/00 B60R21/01 B60R21/013 B60R21/015 B60R21/02 B60R21/04 B60R21/16 B60R21/18 B60R21/32 B60R22/00 B60R22/20 E05F15/00 F24F11/00 F24F7/00 G01C3/08 G01F23/00 G01F23/20 G01F23/296 G01G19/10 G01G19/414 G01J1/34 G01M17/00 G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/88 G01S7/41 G01S7/48 G01S7/539 G06F15/00 G06F17/00 G06F19/00 G06F7/00 G06F7/70 G06G7/00 G06G7/76 G06K7/00 G06K9/00 G06K9/62 G08B1/08 G08B13/14 G08B29/00 G08B29/18 G08C19/00 G09G5/00 H01J40/14 H04B1/00 H04B1/02 H04B3/00 H04N7/18 H04Q5/22 H04R3/00 H04R5/02 (Advanced/Invention);
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European class:

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US class:

1/1 137/223S 137/224S 152/419S 165/203 165/237 177/136 177/144 177/208 180/197P 180/268 180/271 180/272 180/273 180/274 236/49.3 236/49.300P 250/206.1 250/206.2 250/208.1 250/221 250/222.1 250/227.21 250/227.210S 250/332 280/728.1 280/728.100S 280/731 280/734 280/734P 280/735 280/735P 280/735S 280/751 280/751P 296/68.1 297/216.12 297/216.14 297/217.2 297/217.200P 307/10.1 307/9.1 307/91 340/10.1 340/12.51 340/13.24 340/13.240P 340/13.26 340/426.19 340/436 340/438 340/438P 340/442 340/442P 340/443 340/446S 340/447 340/447P 340/447S 340/457.1 340/457.100P 340/5.64 340/505S 340/539.1 340/539.100S 340/539.13 340/539.130P 340/539.14 340/540 340/568.1 340/568.100S 340/572.7 340/572.700P 340/667 340/667S 340/691.6 340/691.600S 340/8.1 340/8.100S 340/825.36 340/825.49 340/825.72 340/991 341/111 342/457 345/156 345/156P 345/7 345/8 345/8S 356/10 356/445 356/5.03 356/5.09 356/614 367/138 367/138P 367/903 381/302 381/303 381/304 381/77 381/86 381/86P 381/92 382/100 382/100P 382/103 382/104 382/104P 382/104S 382/156

382/156S 382/295 385/14 385/2 385/33 385/8 62/244 701/1 701/29 701/29.2 701/29.200S 701/29.6 701/29P 701/31.4 701/31.400P 701/32.7 701/34 701/34.4 701/34S 701/36 701/39 701/44 701/45 701/45P 701/45S 701/49 701/49P 701/70 701/70P 702/173 705/22 73/146.2 73/146.8

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US2010214410, US2010214409, US2010214408, US2010213313, US2010211247, US2010208914, US2010204916, US2010199637, US2010198471, US2010191409, US2010188211, US2010185353, US2010183409, US2010180677, US2010174495, US2010174455, US2010141764, US2010138113, US2010138084, US2010137702, US2010131232, US2010127954, US2010127870, US2010125389, US2010123568, US2010121537, US2010121501, US2010118116, US2010108408, US2010107121, US2010103141, US2010102827, US2010100225, US2010094503, US2010090983, US2010088093, US2010087137, US2010085174, US2010082206, US2010082158, US2010066814, US2010066064, US2010065721, US2010057465, US2010052886, US2010039244, US2010030838, US2010017347, US2010001846, US2009327977, US2009322328, US2009322321, US2009319341, US2009315710, US2009313121, US2009310818, US2009309974, US2009302987, US2009302580, US2009299632, US2009299570, US2009298488, US2009289793, US2009284485, US2009284360, US2009273469, US2009268989, US2009267419, US2009265063, US2009254240, US2009237235, US2009237234, US2009231433, US2009231432, US2009231431, US2009231158, US2009231109, US2009216584, US2009215384, US2009214077, US2009193217,

US2009189997, US2009189751, US2009188323, US2009174682, US2009171531, US2009171528, US2009171525, US2009160616, US2009154770, US2009150017, US2009146474, US2009140909, US2009129593, US2009121300, US2009113772, US2009109036, US2009107771, US2009100366, US2009091435, US2009089813, US2009086987, US2009083678, US2009083674, US2009083672, US2009083671, US2009083669, US2009083666, US2009083645, US2009083626, US2009079732, US2009072627, US2009067677, US2009066499, US2009058422, US2009058126, US2009051309, US2009048742, US2009048740, US2009048522, US2009048039, US2009046538, US2009039235, US2009028353, US2009024273, US2009015394, US2009010502, US2009010207, US2009002187, US2009002145, US2008319279, US2008316312, US2008312784, US2008306798, US2008306665, US2008306649, US2008303842, US2008303663, US2008300988, US2008295152, US2008294370, US2008289895, US2008287122, US2008278309, US2008276191, US2008262780, US2008256967, US2008255722, US2008247596, US2008247575, US2008246598, US2008246318, US2008243327, US2008238678, US2008238162, US2008234889, US2008231698, US2008228358, US2008227473, US2008219274, US2008215202, US2008211684, US2008209934, US2008205333, US2008202139, US2008192008, US2008191845, US2008189053, US2008188172, US2008185825, US2008180426, US2008177458, US2008172150, US2008164838, US2008158096, US2008157940, US2008156103, US2008154815, US2008154613, US2008146895, US2008134797, US2008129475, US2008127752, US2008125940, US2008114543, US2008114517, US2008111407, US2008108292, US2008106116, US2008103944, US2008100706, US2008098823, US2008094256, US2008067841, US2008065291, US2008051996, US2008051946, US2008048930, US2008047770, US2008047329, US2008046200, US2008042477, US2008042418, US2008042410, US2008042409, US2008042408, US2008036580, US2008036252, US2008036185, US2008033785, US2008030311, US2008028846, US2008004798, US2008004776, US2007299573, US2007291892, US2007290844, US2007282768, US2007282746, US2007255469, US2007251998, US2007251749, US2007241897, US2007236450, US2007228877, US2007227203, US2007225911, US2007216123, US2007198129, US2007194900, US2007182587, US2007179686, US2007176463, US2007165967, US2007158502, US2007135982, US2007132220, US2007127811, US2007124046, US2007124045, US2007124044, US2007124043, US2007120697, US2007120347, US2007107969, US2007096446, US2007096445, US2007077896, US2007068240, US2007067082, US2007057781, US2007043493, US2007027595, US2007005202, US2006291438, US2006284839, US2006282204, US2006267321, US2006255967, US2006255618, US2006244573, US2006231320, US2006231319, US2006229779, US2006217862, US2006186713, US2006178859, US2006161321, US2006155442, US2006155441, US2006133210, US2006132306, US2006115124, US2006111821, US2006106518, US2006097748, US2006089791, US2006064238, US2006058932, US2006056663, US2006049677, US2006042851, US2006032248, US2006027185, US2006018641, US2006004681, US2005286763, US2005286059, US2005280556, US2005278097, US2005278093, US2005275554, US2005275276, US2005275258, US2005273218, US2005269810, US2005260088, US2005240329, US2005237346, US2005209756, US2005200106, US2005189159, US2005187667, US2005156457, US2005107926, US2005080533, US2005078172, US2005073136, US2005071175, US2005065681, US2004267497, US2004245036, US2004242374, US2004239874, US2004233300, US2004226378, US2004225429, US2004220705, US2004178894, US2004160319, US2004130756, US2004049578, US2003206102, US2003193404, US2003016130, US2002099567, TWI544813, TWI536750, TWI467310, TWI448668, RU2622871, RU2585119, RU2558349, RU2558349, RU2553339, RU2553339, RU2538432, KR20120034714, KR101766729, KR101721848, KR101520120, JP6011619, JP5853897, JP2014535179, JP2014032119, GB2547980, GB2539467, GB2514047, FR3047927, FR3003842, FR2958761, FR2917855, FR2917854, EP3208634, EP3041012, EP3038048, EP2975860, EP2879405, EP2824923, EP2753569, EP2738337, EP2738337, EP2642315, EP2580639, EP2580639, EP2561493, EP2472289, EP2441635, EP2291302, EP2291302, EP2182511, EP2181356, EP2181356, EP2072292, EP2018047, DE112011101891, DE102011010194, DE102011010194, DE102009034069, DE102009034068, CN105189178, CN105163240, CN104884944, CN104685901, CN104684760, CN104678688, CN104620257, CN104554080, CN104379410, CN103987649, CN103369425, CN103369425, CN103124943, CN103124662, CN103124662, CN103068599, CN103068599, CN103028243, CN102975719, CN102910130, CN102673447, CN102609125, CN102609125, CN102589565, CN102540468, CN102442479, CN102407820, CN102407820, CN102356367, CN102233836, AU2013230184, AU2008269142,

Abstract:
Source: US2003039173A Methods for reducing ringing of dual−function ultrasonic air−coupled transducers in which at least one electrical passive circuit is applied to the transducer. The circuit may be either a linear circuit or a non−linear circuit. Different circuits can be applied to the transducer when the transducer is in a transmission mode than when the transducer is in a reception mode.

0) US2003038503A – SIDE VISOR FASTENER

70) Family number: 28332465 (US2003038503A) © PatBase

Title: Side visor fastener

Priority: JP20010255864 20010827

Family:

Publication number	Publication date	Application number	Application date
JP2003063246 A2	20030305	JP20010255864	20010827
US2003038503 AA	20030227	US20020212640	20020805
US6682126 BB	20040127	US20020212640	20020805

Probable Assignee: NEWFREY LLC

Assignee(s):(std)**:** KANIE HIDEKI ; NEWFREY LLC ; NIPPON POP RIVETS AND FASTENERS

Assignee(s): NIPPON POP RIVETS AND FASTENERS LTD ; EMHART LLC

Inventor(s):(std)**:** KANIE HIDEKI

International class (IPC 8–9): B60J1/20 B60J3/00 (Advanced/Invention); B60J1/20 B60J3/00 (Core/Invention)

International class (IPC 1–7): B60J1/20 B60J3/00

CPC: B60J1/2002

European class: B60J1/20A

US class: 296/152 296/154

Classification Explorer

Cited documents: US6557927 BB, US5251953 A, JP63265723 A2, JP4124511 A2, JP265723, JP2001124022 A2,

Forward Citations: USD546935, US8998290, US8485593, US6877792, US2011084519, US2005264032, US2003214149, JP2006290126,

Abstract:
Source: US2003038503A A side visor fastener (1) comprises a retainer (25) to be fixed to a mounting portion (11) of a frame (3), and a clip for fastening the side visor (1) to a portion of the fastener extending from the retainer (25) to the side visor (1A). The clip includes a receiver clip element (26) to be disposed on the rear side of the side visor (1A), and a pin clip element (27) to be inserted from the front side or outer surface of the side visor (1A) into the receiver clip element (26) through the side visor (1A) so as to engage with the receiver clip element (26). The receiver clip element (26) is integrally connected with the retainer (25) through a thin−walled hinge (29) in a swingable manner in line with an inclination of the side visor (1A) with respect to the frame (3) so that the receiver chip element (26) is served as the portion of the fastener (1) extending from the retainer (25) to support the side visor (1A) through the thin−walled hinge (29). The side visor (1A) is fixed to the frame (3) through the retainer (25) while the side visor (1A) is sandwiched between the receiver clip element (26) and the pin clip element (27).

0) US2003155753A – CRASH SENSOR ARRANGEMENT FOR CONTROLLING DEPLOY...

71) Family number: 33357385 (US2003155753A) © PatBase

Title: CRASH SENSOR ARRANGEMENT FOR CONTROLLING DEPLOYMENT OF AN OCCUPANT RESTRAINT DEVICE

Priority:
US19910727756 19910709 US19930024076 19930301 US19930101017 19930916
US19930104246 19930809 US19940358976 19941219 US20010862530 20010522
US19990452735 19991201 US19950514986 19950814 US19970865525 19970529
US19990435045 19991108 US19980114962 19980714 US20010753186 20010102
US19980137918 19980820 US19950476077 19950607 US20000748489 20001226
US20020331060 20021227 US20020188673 20020703

Family:

Publication number	Publication date	Application number	Application date
US2003155753 AA	20030821	US20020331060	20021227
US7635043 BB	20091222	US20020331060	20021227

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s):(std)**:** AUTOMOTIVE TECH INT

Assignee(s): AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; BREED DAVID S ; AMERICAN VEHICULAR SCIENCES LLC

Inventor(s):(std)**:** BREED DAVID S

Agent(s): BRIAN

International class (IPC 8–9)**:** B60J10/00 B60K28/14 B60N2/00 B60N2/02 B60N2/28 B60R19/48 B60R21/01 B60R21/16 B60R21/20 B60R21/33 G01F23/00 G01F23/20 G01F23/296 G07C5/00 G07C5/08 H01H35/14 (Advanced/Invention); B60R21/00 B60R21/0132 B60R21/015 B60R21/21 (Advanced/Non–invention)

International class (IPC 1–7)**:** B60R21/32

CPC: B60R21/01558 B60N2/002 B60N2/0232 B60N2/0276 B60N2/2863 B60R19/483 B60R21/20 B60R21/21 B60R21/33 B60R2021/0011 B60R2021/01325 B62D21/15 G01F23/0076 G01F23/20 G01F23/2962 G01F23/2965 G07C5/008 G07C5/0808 H01H35/146 B60R21/0152 B60R21/0136 B60J10/00

European class: B60J10/00 B60N2/00C B60N2/02B4 B60N2/02B6W B60N2/28P4 B60R19/48D B60R21/0136 B60R21/015 B60R21/20 B60R21/32 B60R21/33 B62D21/15 G01F23/00G1A G01F23/20 G01F23/296D G01F23/296F G07C5/00T G07C5/08D H01H35/14E L60R19/48D L60R21/00A4 L60R21/0132 L60R21/0132V L60R21/015N L60R21/21 Y02T10/84

US class: 180/282 280/735 280/735P 701/45

Classification Explorer

Cited documents: US6557889 BB, US6234519 BA, US5694320 A, US5684701 A, US5583771 A, US5441301 A, US5390951 A, US5363302 A, US5357141 A, US5327014 A, US5326133 A, US5322323 A, US5231253 A, US5194755 A, US5041976 A, US5031931 A, US4995639 A, US4994972 A, US4985835 A, US4977388 A, US4900880 A, US4853623 A, US4762970 A, US4573706 A, US4381829 A, US4346914 A, US4329549 A, US4284863 A, US4198864 A, US4060705 A, US3974350 A, US3889232 A, US3874695 A, US3859482 A, US3853199 A, US3768831 A, US3748373 A, US3711391 A, US3701903 A, US3694000 A, US3495675 A, US2437969 A,

Forward Citations: WO10014550, WO10014550, WO06056496, WO05035320, WO05035320, US9694768, US9682669, US9679423, US9539969, US9528834, US9367973, US9365139, US9235937, US9176202, US9156558, US9153080, US9126552, US8966975, US8914196, US8914188, US8818759, US8180520, US8096579, US7775583, US7774115, US7637559, US7401846, US7374231, US6856875, US2015149218, US2014358379, US2014292543, US2014156145, US2013026802, US2012296527, US2012259586, US2012239247, US2012191303, US2011107835, US2010121521, US2009309346, US2008319614, US2008176407, US2008169629, US2008125940, US2005234140, US2005234139, US2005218696, US2004031637, EP2291302, EP2291302, EP1869406, EP1869406,

Abstract:
Source: US2003155753A Crash sensor arrangement for determining whether a crash involving the vehicle requires deployment of an occupant restraint device including a first electronic crash sensor mounted in the crush zone of the vehicle for measuring a reaction of the crush zone to a crash and outputting a signal representative of the measurements and a processor coupled to the first sensor for processing the signal to determine whether the restraint device should be deployed. The first sensor may include an accelerometer, a gyroscope or an elongate member arranged to sense the reaction of the crush zone over a substantial part of the front, side or rear of the vehicle. Optionally, a second electronic crash sensor is mounted outside the crush zone to measure a reaction of the vehicle other than crush of the crush zone. Both sensors input signals to the processor which is programmed to determine whether the restraint device should be deployed using an algorithm and data from the first and/or second sensors. The second sensor may be mounted in association with the passenger compartment.

0) US2003177700A – WEATHER STRIP FOR A SLIDING TYPE REAR DOOR

72) Family number: 29032240 (US2003177700A) © PatBase

Title: WEATHER STRIP FOR A SLIDING TYPE REAR DOOR

Priority: JP20020075700 20020319

Family:

Publication number	Publication date	Application number	Application date
DE60310468 D1	20070201	DE20036010468	20030314
DE60310468 T2	20070510	DE20036010468T	20030314
EP1346864 A1	20030924	EP20030005834	20030314
EP1346864 B1	20061220	EP20030005834	20030314
JP2003267061 A2	20030925	JP20020075700	20020319
JP3861225 B2	20061220	JP20020075700	20020319
KR100946447 B1	20100310	KR20030016719	20030318
KR20030076325 A	20030926	KR20030016719	20030318
US2003177700 AA	20030925	US20030387639	20030313
US6751908 BB	20040622	US20030387639	20030313

Probable Assignee: TOYOTA MOTOR EAST JAPAN INC

Assignee(s):(std): KANTO JIDOSHA KOGYO KK ; NISHIKAWA RUBBER CO LTD ; NAKAI HIROFUMI ; MATSUDA YUKIHISA ; OTSUKA SUSUMU ; TOYOTA MOTOR CORP ; FUJIMURA YOSHIO ; ITOU YOSHIO

Assignee(s): KANTO AUTO WORKS LTD ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; TOYOTA MOTOR EAST JAPAN INC ; NISHIKAWA RUBBER CO

Inventor(s):(std): FUJIMURA YOSHIO ; ITOU YOSHIO ; MATSUDA YUKIHISA ; NAKAI HIROFUMI ; OTSUKA SUSUMU ; MATSUDA YUKIO ; ITO YOSHIO

Designated states: DE FR GB

International class (IPC 8–9): B60J10/00 B60J10/08 (Advanced/Invention); B60J10/08 (Advanced/Non–invention); B60J10/00 (Core/Invention)

International class (IPC 1–7): B60J10/00 B60J10/08 E06B7/16

CPC: B60J10/80 B60J10/40

European class: B60J10/00J B60J10/08

US class: 49/475.1 49/479.1

Classification Explorer

Cited documents: US5639533 A, US5566510 A, US4979333 A, US4492405 A, JP7009628 U1, JP59014519 A2, JP59004312 U1, JP59004312 U, JP58188319 U1, JP58188319 U, JP58110335 A2, JP58110335, GB1424942 A,

Forward Citations: US7073294, US2004163321, EP3072722,

Abstract:
Source: US2003177700A A weather strip for a sliding type rear door is applied to a car which is unfurnished with a center pillar, and is furnished with a front door turnable about hinges provided at the front end thereof and with a sliding rear door which slides back and forth. The weather strip is attached to the front end of the rear door and includes a tapered lip portion extending toward the front door. The tapered lip portion is formed on a molded portion of the weather strip formed at the upper end portion thereof. The tapered portion elastically contacts an opening seal attached to a roof side of a car body and a weather strip attached to a rear end of the front door when the rear door is closed. A guide portion is formed at the lower half of the lip portion. The guide portion is thicker than the lip portion, and it contacts the opening seal and the front door weather strip immediately before the tip end of the tapered lip portion contacts the opening seal and the front door weather strip. Thus, the tip end of the lip portion is prevented from being reversed or curled up when the rear door is closed.

0) US6641203B – WINDPROOF AND THEFTPROOF VEHICLE COVER

73) Family number: 29539537 (US6641203B) © PatBase

Title: Windproof and theftproof vehicle cover

Priority: US20020207639 20020729

Family:

Publication number	Publication date	Application number	Application date
US6641203 BA	20031104	US20020207639	20020729

Probable Assignee: EVERETT ROSS W

Assignee(s):(std)**:** EVERETT ROSS W

Inventor(s):(std)**:** EVERETT ROSS W

International class (IPC 8–9)**:** B60J11/00 (Advanced/Invention); B60J11/00 (Core/Invention)

International class (IPC 1–7)**:** B60J11/00

CPC: B60J11/00

European class: B60J11/00

US class: 150/166 296/136.11 296/95.1 296/951

Classification Explorer

Cited documents: US6322129 BB, US6318426 BA, US6092857 A, US6017078 A, US5941593 A, US5791361 A, US5597197 A, US5597196 A, US5456515 A, US5435362 A, US5176421 A, US5088788 A, US5022700 A, US4972892 A, US4958881 A, US4948191 A, US4903749 A, US4850635 A, US4842324 A, US4784215 A, US4727898 A, US4720135 A, US4432581 A, US4274077 A, US4222032 A, US2666840 A, US2001045758 AA,

Forward Citations: WO07046988, USD666136, USD665721, USD658565, US7669913, US7431375, US7338100, US7278677, US7156444, US7008002, US6916043, US2015151623, US2014261934, US2010314901, US2010059095, US2007257504, US2007029827, US2007007792, US2006214466, US2006146407, US2006061132, US2006022483, US2005272274, US2005242610, US2005179281, US2005127710, US2004178618, ITBO20110643,

Abstract:
Source: US6641203B Systems and methods which provide a cover having a retaining piping disposed along an edge thereof to tether the cover to a vehicle or other object. Retaining piping is preferably disposed. such that a portion of the cover passes through an opening in the vehicle and the retaining piping cannot pass through the opening, thereby preventing the removal of the cover from the vehicle.

0) US2003205918A – MODULAR VEHICULAR WINDOW SEAL ASSEMBLY

74) Family number: 29540950 (US2003205918A) © PatBase

Title: MODULAR VEHICULAR WINDOW SEAL ASSEMBLY

Priority: US20020136230 20020501 WO2003US13232 20030429

Family:

Publication number	Publication date	Application number	Application date
AU2003225204 AA	20031117	AU20030225204	20030429
DE60303445 D1	20060413	DE20036003445	20030429
EP1499512 A2	20050126	EP20030721920	20030429
EP1499512 B1	20060201	EP20030721920	20030429
US2003205918 AA	20031106	US20020136230	20020501
US6817651 BB	20041116	US20020136230	20020501
WO03093044 A2	20031113	WO2003US13232	20030429
WO03093044 A3	20040205	WO2003US13232	20030429

Probable Assignee: SCHLEGEL CORP

Assignee(s):(std)**:** CARVALHO DARREL B ; KONITSNEY WILLIAM J ; RIGBY JOHN A ; SCHLEGEL CORP ; ZWOLINSKI DAVID T

Assignee(s): SCHLEGEL CORP NEW YORK ; ROYAL BANK OF SCOTLAND PLC AS SECURITY AGENT ; ROYAL BANK OF SCOTLAND PLC SECURITY AGENT AS ; METZELER AUTOMOTIVE PROFILE SYSTEMS IOWA INC ; METZELER AUTOMOTIVE PROFILE SYSTEMS NORTH CAROLINA ; METZELER AUTOMOTIVE PROFILE SYSTEMS NORTH CAROLINA INC ; METZELER AUTOMOTIVE PROFILE SYSTEMS OKLAHOMA INC ; BANK OF AMERICA N A

Inventor(s):(std)**:** CARVALHO DARREL B ; KONITSNEY WILLIAM J ; RIGBY A JOHN ; RIGBY JOHN A ; ZWOLINSKI DAVID T ; ZWOLINSKI T ; RIGBY A ; KONITSNEY J ; CARVALHO B

Inventor(s): WILLIAM J KONITSNEY ; DARREL B CARVALHO ; DAVID T ZWOLINSKI ; JOHN A RIGBY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J10/00 B60J10/04 (Advanced/Invention); B60J10/00 B60J10/02 (Core/Invention)

International class (IPC 1–7): B60J10/00 B60J10/02 B60J10/04 B62D25/02

CPC: B60J10/78 B60J10/16 B60J10/235 B60J10/70 B60J10/75 B60J10/76

European class: B60J10/00C2 B60J10/00D3 B60J10/02 B60J10/04B B60J10/04D B60J10/04D3

US class: 296/146.15 296/146.2 296/203.03 296/203.030P

Classification Explorer

Cited documents: US6319344 BA, US6299235 BA, US6293616 BA, US6279987 BA, US6260905 BA, US6247746 BA, US6189198 BA, US6082048 A, US6070364 A, US6068719 A, US6023888 A, US5915780 A, US5853895 A, US5846463 A, US5779956 A, US5702148 A, US5566510 A, US5557890 A, US5538777 A, US5503700 A, US5396733 A, US5343609 A, US5317835 A, US5027556 A, US5010689 A, US5007202 A, US4800681 A, US4761916 A, US4357781 A, US4119325 A, JP61220919 A2, JP361220919, GB2302558 A1, GB2074639 A1, EP0587428 A1, EP0526327 A1, DE3821457 A1, DE19632843 C1,

Forward Citations: WO15120395, WO11068532, WO09150372, WO09150372, WO06055911, WO06055465, WO06055465, WO05103426, WO05037587, WO04108458, US9493061, US9475374, US9475372, US9132859, US9114693, US9061574, US9027284, US8978306, US8919846, US8661736, US8479449, US8408344, US8333423, US8328975, US8141297, US8128143, US8042859, US7980621, US7950719, US7950109, US7918492, US7896425, US7887118, US7874104, US7856759, US7798557,

US7763197, US7448670, US7356967, US2014109485, US2013313863, US2012274102, US2012167473, US2012144751, US2012060422, US2011239410, US2011126473, US2011109009, US2011030282, US2011010998, US2010300181, US2010295337, US2010171336, US2010127530, US2010001550, US2009174108, US2009121517, US2009072583, US2009072582, US2009070960, US2009064594, US2009051194, US2009038232, US2008282617, US2008238134, US2008191517, US2007169417, US2007101656, US2006152035, US2006103047, US2006005469, GB2421044, FR2932548, EP2463133, EP1862343, DE202010013082,

Abstract:
Source: US2003205918A A vehicle window seal assembly includes a division bar formed without structural metal and including one of an insert or an overlay layer of a relatively soft material. The division bar can be formed in an H configuration having an elastic hinge between a leg of the H profile and a cross piece. The division bar can also be formed to receive and engage the insert to locate sealing lips for contacting a moveable glass panel.

0) US2004076015A – SYSTEM FOR LIMITING AN INCREASE IN THE INSIDE A...

75) Family number: 30499592 (US2004076015A) © PatBase

Title: SYSTEM FOR LIMITING AN INCREASE IN THE INSIDE AIR TEMPERATURE OF PASSENGER COMPARTMENT OF VEHICLE

Priority: CA20042469553 20040531 JP20020283138 20020927 JP20020292295 20021004 US20030670951 20030925

Family:

Publication number	Publication date	Application number	Application date
CA2469553 AA	20050325	CA20042469553	20040531
CA2469553 C	20091229	CA20042469553	20040531
JP2004114900 A2	20040415	JP20020283138	20020927
JP2004123011 A2	20040422	JP20020292295	20021004
JP3948384 B2	20070725	JP20020292295	20021004
US2004076015 AA	20040422	US20030670951	20030925
US6830510 BB	20041214	US20030670951	20030925
US7275983 BB	20071002	US20030670951	20030925

Probable Assignee: DENSO CORP

Assignee(s):(std)**:** DENSO CORP ; NIPPON DENSO CO ; TSAUR GARRY

Assignee(s): YAMANAKA YASUSHI ; KAMIYA TOSHIFUMI ; AOKI SHINJI

Inventor(s):(std)**:** AOKI SHINJI ; KAMIYA TOSHIFUMI ; TSAUR GARRY ; YAMANAKA YASUSHI

Agent(s): GOUDREAU GAGE DUBUC; HARNESS DICKEY AND PIERCE PLC

International class(IPC 8–9)**:** B60H1/00 B60H1/24 B60J3/00 B60J3/06 B65D25/38 (Advanced/Invention); B60H1/00 B60H1/24 B60J3/00 B65D25/38 (Core/Invention)

International class(IPC 1–7)**:** B60H1/00 B60H1/24 B60H1/32 B60J3/00 B60J3/06 B60Q1/26 B65D25/38

CPC: B60H1/00735 B60H1/0075 B60H1/00771 B60H1/00821 B60H1/00778

European class: B60H1/00Y5 B60H1/00Y5B B60H1/00Y5F1 B60H1/00Y6A

US class: 362/318 362/503 454/120 454/69 454/75 62/244

Classification Explorer

Cited documents: US6407365 BA, US6186886 BA, US5414306 A, JP61059416 U, JP6018323, JP5338428, JP5244731 A2, JP4252730 A2, JP2117414, JP1168520, JP1153319,

Forward Citations: WO09096583, WO07046539, WO07042019, US9747740, US9744852, US9327580, US9004993, US8888573, US8757249, US8569609, US7873451, US7380587, US6886352, US2017072794, US2015069798, US2014170950, US2014004782, US2011271697, US2011226461, US2010327637, US2009286459, US2009266394, US2009095449, US2008300749, US2008264466, US2006042788, US2005284405, US2004107713, US2004069482, JP4415926, JP2007112338, JP2006193081, EP1909385, DE102010054081,

Abstract:
Source: US2004076015A Light control glasses are used as window glasses of a vehicle. When the vehicle is parked, voltage is applied to the light control glass, which directly receives solar radiation from the sun, so that a light transmittancy of the light control glass is reduced to reduce the amount of solar radiation entered a passenger compartment of the vehicle.

76) Family number: 31144559 (US2004206615A) © PatBase

Title: LOW COST KEY ACTUATORS AND OTHER SWITCHING DEVICE ACTUATORS MANUFACTURED FROM CONDUCTIVE LOADED RESIN–BASED MATERIALS

Priority:

CA20042464173 20040414 US20010268822P 20010215 US20020309429 20021204
US20020075778 20020214 US20010317808P 20010907 US20010269414P 20010216
US20030478774P 20030616 US20030461877P 20030410 US20030464236P 20030421
US20030484398P 20030702 US20030463068P 20030415 US20030484399P 20030702
US20030462891P 20030415 US20030463368P 20030416 US20030484454P 20030702
US20030512352P 20031017 US20030519673P 20031113 US20040609928P 20040915
US20040610476P 20040916 US20040811371 20040326 US20040557892P 20040331
US20040823147 20040413 US20030484400P 20030702 US20030484456P 20030702
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US20040574336P 20040525 US20030499452P 20030902 US20030507178P 20030930
US20040883913 20040701 US20060496098 20060729 US20050227849 20050915
US20070983363 20071108 US20050704036P 20050729 US20040967487 20041018
US20040827061 20040419 US20050060274 20050217 US20040883915 20040701
US20050060275 20050217 US20070796680 20070428 US20060541187 20060929
US20040877092 20040625 US20050131525 20050518 US20040884321 20040702
US20070796521 20070428 US20050131523 20050518 US20070800131 20070504
US20040933064 20040902 US20070800130 20070504

Family:

Publication number	Publication date	Application number	Application date
CA2464173 AA	20041016	CA20042464173	20040414
CN1551263 A	20041201	CN200410059594	20040416
EP1469494 A2	20041020	EP20040392020	20040415
EP1469494 A3	20060503	EP20040392020	20040415
JP2004342601 A2	20041202	JP20040121111	20040416
KR20040048848 A	20040610	KR20030087073	20031203
KR20040090727 A	20041026	KR20040026051	20040416
US2004206615 AA	20041021	US20040811082	20040326
US2005001287 AA	20050106	US20040883913	20040701
US2006287126 AA	20061221	US20060496098	20060729
US2007023272 AA	20070201	US20060541187	20060929
US2007204459 AA	20070906	US20070800131	20070504
US2007204460 AA	20070906	US20070800130	20070504
US2007207316 AA	20070906	US20070796680	20070428
US2007278924 AA	20071206	US20070796521	20070428
US2008036241 AA	20080214	US20050227849	20050915
US2008063864 AA	20080313	US20070983363	20071108
US7115825 BB	20061003	US20040811082	20040326
US7136008 BB	20061114	US20040884321	20040702
US7164388 BB	20070116	US20040827061	20040419
US7182889 BB	20070227	US20050060275	20050217
US7198735 BB	20070403	US20050060274	20050217
US7222727 BB	20070529	US20040823147	20040413
US7223144 BB	20070529	US20050131525	20050518
US7223469 BB	20070529	US20040883915	20040701
US7224108 BB	20070529	US20050131523	20050518
US7230572 BB	20070612	US20040967487	20041018
US7244890 BB	20070717	US20040811371	20040326
US7372127 BB	20080513	US20040883913	20040701
US7644488 BB	20100112	US20070800130	20070504

US7644495 BB	20100112	US20070800131	20070504	
US7829807 BB	20101109	US20060541187	20060929	
US7872405 BB	20110118	US20070796521	20070428	
WO05004286 A2	20050113	WO2004US21404	20040702	
WO05004286 A3	20070208	WO2004US21404	20040702	
WO06031933 A2	20060323	WO2005US32845	20050915	
WO06031933 A3	20090528	WO2005US32845	20050915	

Probable Assignee: INTEGRAL TECHNOLOGIES INC

Assignee(s):(std)**:** AISENBREY THOMAS ; INTEGRAL TECHNOLOGIES ; INTEGRAL TECHNOLOGIES INC

Inventor(s):(std)**:** AISENBREY THOMAS ; THOMAS AISENBREY

Agent(s): RIDOUT AND MAYBEE LLP; CHIBA AKIO; MASUI CHUJI; HOSHINO OSAMU; SHAMOTO ICHIO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; GEORGE O SAILE; DOUGLAS SCHNABELL MICHIGAN; DOUGLAS R SCHNABEL; DOUGLAS; DOUGLAS R; DOUGLASS; SCHNABEL DOUGLAS

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A63B49/02 A63B53/00 A63B53/12 A63B71/10 B29C45/00 B29C70/02 B29C70/58 B29C70/86 B29C70/88 B32B15/00 B32B17/12 B32B18/00 B32B5/02 B32B5/16 B32B9/00 B60J7/00 B62D29/04 B65G15/32 B65G17/40 B65G43/06 C08K7/02 C08L101/12 C09K5/14 D02G3/00 D06N7/04 F16D69/04 G06K19/077 G08B21/00 G21F3/00 H01B1/00 H01B1/16 H01B1/22 H01B11/06 H01B11/10 H01B13/22 H01B3/30 H01B7/17 H01B7/34 H01C1/08 H01C17/065 H01C7/00 H01C8/00 H01F7/06 H01H1/02 H01H1/029 H01H11/00 H01H13/00 H01H13/70 H01H13/702 H01H13/712 H01H13/785 H01H19/02 H01H23/02 H01H25/04 H01L29/00 H01L35/00 H01Q1/12 H01Q1/24 H01Q1/32 H01Q1/36 H01Q1/38 H01Q1/40 H01Q11/08 H01Q13/08 H01Q17/00 H01Q21/00 H01Q7/00 H01Q9/00 H01Q9/04 H01Q9/16 H01Q9/30 H01R13/03 H01R13/658 H01R43/00 H01R43/02 H01R9/00 H01T13/20 H01T13/39 H01T21/02 H01T4/04 H03B5/18 H03H7/01 H05K3/10 (Advanced/Invention);
B32B3/00 B32B3/26 B65B53/00 F16B4/00 H01H13/70 H01H19/58 H01H23/12 H01Q13/08 H01R43/00 H01R43/24 H05K1/09 (Advanced/Non–invention);
A63B49/02 A63B53/00 A63B71/08 B29C45/00 B60J7/00 B62D29/00 B65G15/32 B65G17/30 B65G43/06 D02G3/00 D06N7/00 F16D69/00 G06K19/077 G08B21/00 G21F3/00 H01B1/14 H01B1/22 H01C1/00 H01C17/06 H01C7/00 H01C8/00 H01L35/00 H01Q1/00 H01Q1/12 H01Q1/24 H01Q1/32 H01Q1/36 H01Q1/38 H01Q13/08 H01Q21/00 H01Q9/04 H05K3/10 (Core/Invention);
H01H19/00 H01H23/00 H05K1/09 (Core/Non–invention);
H01B (Subclass/Invention)

International class (IPC 1–7): H01B1/22 H01B1/24 H01H1/02 H01H11/00 H01H13/00 H01H13/70 H01H19/02 H01H23/02 H01H25/04 H01L21/20 H01L29/00 H01Q13/08

CPC: H01C7/005 H01C17/06526 H01C17/06586 B62D29/00 H01B1/22 H01C17/0652 H01B11/1066 H01Q7/00 H01Q11/08 H03B5/18 H03H5/12 B65G15/32 B65G17/40 H01Q1/243 D06M15/19 B29B9/14 B29C47/0016 B29C47/0021 B29C47/025 B29C59/14 B29C2793/009 B29K2995/0013 H01R13/6599 A63B53/047 A63B53/0487 H01Q1/276 A01K87/00 A63B49/02 A63B49/08 A63B49/10 A63B53/0466 A63B53/10 A63B67/14 A63B69/02 A63B71/10 A63B71/12 A63B2053/0416 A63B2053/0491 A63B2071/105 A63B2071/1208 A63B2209/02 A63B2209/023 A63B2209/026 A63B2225/50 A63B2243/007 B29C70/58 B29L2031/5227 C08L101/12 F41B13/02 Y10T428/24405 Y10T428/25 H01R13/03 C09K5/14 H01R43/24 Y10T29/4902 Y10T29/49117 Y10T29/49147 Y10T29/49149 Y10T29/49151 Y10T29/49153 Y10T29/49171 Y10T29/49174 Y10T428/2904 Y10T428/2907 Y10T428/2918 Y10T428/2927 Y10T428/2929 Y10T428/2933 Y10T428/2936 Y10T428/294 Y10T428/2944 Y10T428/2947 Y10T428/2958 Y10T428/2913 Y10T428/1328 B29C45/0005 B29C70/025 B29C70/882 B29K2105/0023 H01Q17/00 Y10T428/31681 Y10T428/249972 H01H2215/008 H01H2221/01 H01H2221/012 H01H2221/018 H01H2239/006 A63B59/50 A63B59/70 A63B60/06 A63B60/08 A63B60/10 A63B2060/002 A63B2102/02 A63B2102/065 A63B2102/18 A63B2102/24 Y10T428/249958 Y10T428/249928 H01T21/02 H01T13/20 B29C45/0001 B29C45/0013 B29K2995/0005 B29L2031/3456 G06K19/07749 H01Q1/1271 H01Q1/36 H01Q1/38 H01Q1/40 H01Q9/0407 H01Q9/16 H01Q9/30 H01T13/39 H05K1/095 H05K3/101 H05K3/107 H05K2201/0281

H05K2201/09118 H05K2203/0113 H01H13/702 H01H13/785 H01H19/58 H01H23/12 H01H2011/0081 H01H2201/032 H01H2203/0085 H01H2203/01 H01H2209/078 H01H2215/006

European class: A01K87/00 A63B53/04L A63B53/04M A63B71/10 B29B9/14 B29C45/00D B29C45/00E B29C47/02C B29C70/02A4 B29C70/58 B29C70/88A B62D29/00 B65G15/32 B65G17/40 C08L101/12 C09K5/14 F41B13/02 G06K19/077T H01B1/22 H01B11/10G2 H01C17/065B2B H01C17/065B2D H01C17/065B4D H01C7/00D2 H01H1/02B H01H13/702 H01H13/70B H01H13/785 H01Q1/12G H01Q1/27C1 H01Q1/36 H01Q1/38 H01Q1/40 H01Q11/08 H01Q17/00 H01Q7/00 H01Q9/04B H01Q9/16 H01Q9/30 H01R13/03 H01T13/20 H01T13/39 H03B5/18 H03H5/12 H05K3/10A K63B209/02 K63B209/02L K63B209/02R K63B225/50 K63B243/00B K63B243/00K2 K63B243/00R2 K63B243/00S2 K63B243/00T K63B49/02 K63B49/08 K63B49/10 K63B53/04A6B K63B53/04W K63B53/10 K63B59/00A1 K63B59/00B K63B59/06 K63B59/14 K63B67/14 K63B69/02 K63B71/10F K63B71/12 K63B71/12B L29C45/00B L29C59/14 L29C793/00J L29K105/00E6B L29K995/00C2 L29K995/00D2 L29L31/34J L29L31/52C T01H11/00G T01H19/58 T01H201/032 T01H203/008B T01H203/010 T01H209/078 T01H215/006 T01H215/008 T01H221/010 T01H221/012 T01H221/018 T01H23/12 T01H239/006 T01R43/24 T05K1/09D2 T05K201/02B2 T05K201/09A12 T05K203/01A2 T05K3/10A T05K3/10E

US class: 136/259P 156/137 156/166 156/169 156/172 174/36 174/68.100P 198/810.02 198/810.03 198/810.04 198/866P 2/425 2/425S 200/262 200/264 200/341 200/5.00A 200/5A 250/517.1 252/500P 252/512 257/536 257/536P 257/537 257/537S 257/E21.004 264/104 264/104P 264/105S 264/175S 264/211S 264/219 264/219S 264/236S 264/328.180S 29/602.1 29/825 29/842 29/843 29/844 29/845 29/855 29/855P 29/857 29/857P 296/187.01 296/187.010P 313/118 313/141 313/141P 313/141S 313/142S 313/143P 331/117R 331/59 331/59S 336/200 336/83 340/676 342/4 343/700.0MS 343/700MS 343/745 343/745P 343/788 343/873 343/873P 343/895P 428/147 428/293.4 428/308.4 428/313.5 428/323S 428/34.9 428/359 428/361 428/364 428/364P 428/367 428/367P 428/372 428/372S 428/373 428/375 428/375S 428/377 428/379 428/379S 428/381 428/383 428/389 428/458 438/382 438/382S 445/7 445/7P 473/316 473/316P 473/324 473/324S 473/349 473/349S 473/524 473/524S 52/309.14

Classification Explorer

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Abstract:
Source: US2004206615A Key actuators and other switching devices are formed of a conductive loaded resin−based material. The conductive loaded resin−based material comprises micron conductive powder(s), conductive fiber(s), or a combination of conductive powder and conductive fibers in a base resin host. The ratio of the weight of the conductive powder(s), conductive fiber(s), or a combination of conductive powder and conductive fibers to the weight of the base resin host is between about 0.20 and 0.40. The micron conductive powders are formed from non−metals, such as carbon, graphite, that may also be metallic plated, or the like, or from metals such as stainless steel, nickel, copper, silver, that may also be metallic plated, or the like, or from a combination of non−metal, plated, or in combination with, metal powders. The micron conductor fibers preferably are of nickel plated carbon fiber, stainless steel fiber, copper fiber, silver fiber, or the like.

0) US2004129478A – WEIGHT MEASURING SYSTEMS AND METHODS FOR VEHICL...

77) Family number: 33357396 (US2004129478A) © PatBase

Title: WEIGHT MEASURING SYSTEMS AND METHODS FOR VEHICLES

Priority:

US19920878571	19920505	US19930040978	19930331	US19940239978	19940509
US19950505036	19950721	US19950474786	19950607	US19950474783	19950607
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US20020234063	20020903				

Family:

Publication number	Publication date	Application number	Application date
US2004129478 AA	20040708	US20030733957	20031211

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s):(std)**:** BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C

Assignee(s): AMERICAN VEHICULAR SCIENCES LLC ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC

Inventor(s):(std)**:** BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C

International class (IPC 8–9)**:**
B60J10/00 B60N2/00 B60N2/015 B60N2/02 B60N2/06 B60N2/28 B60N2/48 B60N2/66 B60Q1/14 B60R16/02 B60R16/037 B60R21/01 B60R22/20 E05F15/00 G01F23/00 G01F23/20 G01F23/296 G01G19/414 G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/88 G01S7/41 G01S7/48 G01S7/539 G06K9/00 (Advanced/Invention);
B60R1/12 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/16 B60R21/20 B60R21/203 B60R21/215 B60R21/231 B60R21/26 B60R21/276 B60R22/28 B60R22/46 B60R22/48 G01S13/04 G01S15/06 G01S17/89 (Advanced/Non–invention);
B60J10/00 B60N2/00 B60N2/005 B60N2/02 B60N2/06 B60N2/26 B60N2/48 B60N2/64 B60Q1/14 B60R16/02 B60R16/037 B60R21/01 B60R22/18 E05F15/00 G01F23/00 G01F23/296 G01G19/40 G01S15/00 G01S17/00 G01S7/02 G01S7/48 G01S7/539 G06K9/00 (Core/Invention);
B60R1/12 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/16 B60R21/20 B60R21/23 B60R21/26 B60R22/00 B60R22/28 B60R22/46 G01S13/00 (Core/Non–invention)

International class (IPC 1–7)**:**
B60K28/04 B60R21/32

CPC:
B60N2002/0272 B60R21/013 B60N2/002 B60N2/015 B60N2/0224 B60N2/0232 B60N2/0244 B60N2/0248 B60N2/0252 B60N2/0276 B60N2/067 B60N2/28 B60N2/2806 B60N2/2863 B60N2/4829 B60N2/4852 B60N2/4885 B60N2/66 B60N2002/0268 B60R16/037 B60R21/0132 B60R21/0134 B60R21/0136 B60R21/203 B60R21/21656 B60R21/276 B60R22/20 B60R22/201 B60R25/25 B60R25/252 B60R25/255 B60R25/257 B60R2001/1223 B60R2001/1253 B60R2021/0027 B60R2021/01315 B60R2021/23153 B60R2021/26094 B60R2021/2765 B60R2022/208 B60R2022/288 B60R2022/4685 B60R2022/4825 E05Y2900/55 G01S7/417 G01S7/4802 G01S7/539 G01S13/04 G01S15/04 G01S15/06 G01S15/42 G01S15/87 G01S15/88 G01S17/88 G01S17/89 G06K9/00369 G10K2210/1282 G10K2210/3219 B60R21/01516 B60R21/01532 B60R21/01534 B60R21/01536 B60R21/01538 B60R21/01542 B60R21/01546 B60R21/01548 B60R21/01552 B60R21/01554 B60R21/0152 B60R21/0153 B60R21/01544 E05F15/43 E05F15/431 E05F2015/433

European class:
B60J10/00 B60N2/00C B60N2/015 B60N2/02B B60N2/02B4 B60N2/02B6 B60N2/02B6B B60N2/02B6C B60N2/02B6W B60N2/06S B60N2/28 B60N2/28B2 B60N2/28P4 B60N2/48C2C B60N2/48C3C B60N2/48W B60N2/66 B60Q1/14C1B B60R16/02B8 B60R16/037 B60R21/013 B60R21/0136 B60R21/015 B60R22/20 B60R25/25 B60R25/25B

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US class: 180/273 180/274 280/735 280/735S 701/45

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Abstract:
Source: US2004129478A Weight sensor for determining the weight of an occupant of a seat including a bladder arranged in a seat portion of the seat and including material or structure in an interior thereof which constrains fluid flow therein and one or more transducers for measuring the pressure of the fluid in the bladder. The material or structure might be open cell foam. The bladder may include one or more chambers, and if more than one chamber is formed, each chamber can be arranged at a different location in the seat portion of the seat.

0) US2004155524A – MECHANICAL AND ELECTRICAL COUPLING SYSTEM

78) Family number: 31145467 (US2004155524A) © PatBase

Title: MECHANICAL AND ELECTRICAL COUPLING SYSTEM

Priority: AU20030286314 20031210 AU20110200607 20110214 US20030249603 20030423 US20030437609P 20030104 EP20030777057 20031210 US20030437906P 20030104 US20030541055 20031210 US20030512832P 20031020 US20030482641P 20030626 US20030512836P 20031017 US20030482735P 20030627 US20030493525P 20030811 US20030482164P 20030626 US20030512832P 20031017 US20030745114 20031222 US20060541055 20060306 WO2003IB05817 20031210

Family:

Publication number	Publication date	Application number	Application date
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AU2011200607 BB	20111215	AU20110200607	20110214
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US7608011 BB	20091027	US20030541055	20031210
WO04060708 A1	20040722	WO2003IB05817	20031210

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC

Assignee(s):(std)**:** BOYER BRAD ; CHEN YIN ; DENLINGER ADAM ; DHILLON JAS ; DHILLON JASWANT ; GRABOWSKI TONY GARY ; FORD GLOBAL TECHNOLOGIES LLC ; JAURA ARUN KUMAR ; ORTMANN WALT ; NATKIN ROBERT ; SZWABOWSKI STEVEN ; JIH EDWARD ; OLTMANS BRET ; JAURA ARUN ; SZWABOWSKI STEVE ; GRABOWSKI TONY ; FORD GLOBAL TECH INC ; FORD GLOBAL TECH LLC

Assignee(s): FORD MOTOR CO ; ACKER LAURENS VAN DEN ; GOODMAN BRYAN ; DIMEO DAVID ; STRUMOLO GARY ; MILLER RONALD ; PARIS GONZALEZ JOSE ; WAGNER DAVID ; FORD GLOBAL TECHNOLOGIES INC

Inventor(s):(std)**:** VALLIS JONATHAN ; VAN DEN ACKER LAURENS ; WAGNER DAVID ; WALT ORTMANN ; SZWABOWSKI STEVE ; MILLER RONALD ; JIH EDWARD ; JAURA ARUN

KUMAR ; JASWANT DHILLON ; GRABOWSKI TONY GARY ; GRABOWSKI TONY ; GOODMAN BRYAN ; FLICK DENNIS ; DIMEO DAVID ; DHILLON JASWANT ; DHILLON JAS ; DENLINGER ADAM ; CHEN YIN ; BOYER BRAD ; JAURA ARUN ; KUMAR JAURA ARUN ; NATKIN ROBERT ; OLTMANS BRET ; ORTMANN WALT ; PARIS GONZALEZ JOSE ; ROBERT NATKIN ; STEVEN SZWABOWSKI ; STRUMOLO GARY ; SZWABOWSKI STEVEN ; ADAM DENLINGER ; BRET OLTMANS ; EDWARD JIH ; GARY GRABOWSKI TONY ; ACKER LAURENS VAN DEN ; OLTMAN GRABOWSKI TONY GARY JAU ; GRABOWSKI TONY GARY JAURA ARUN KUMAR ORTMANN WALT ; DHILLON JASWANT JAS

Inventor(s): GRABOWSKI TONY GARY JAURA ARUN KUMAR ORTMANN ; JIH ; GRABOWSKI TONY GARY JAURA ARUN KUMAR ORTMANN WALT NATKIN ROBERT SZWABOWSKI STEVEN JIH EDWARD OLTMANS BRET DENLINGER ADAM DHILLON JASWANT ; TONY GARY GRABOWSKI ; ARUN KUMAR JAURA

Agent(s): SMOORENBURG PINI PATENT AND TRADE MARK ATTORNEYS; SMOORENBURG PATENT AND TRADE MARK ATTORNEYS; MESSULAM ALEC MOSES; FORD GLOBAL TECHNOLOGIES LLC; GIGETTE M; BORDA LORENZ AND GEGGIE PLLC; DAVID B; BROOKS KUSHMAN PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J1/18 B60J5/04 B60J5/10 B60K1/00 B60K15/07 B60K17/04 B60K6/04 B60K6/20 B60K6/22 B60K6/24 B60K6/26 B60K6/28 B60K6/387 B60K6/40 B60K6/44 B60K6/445 B60K6/46 B60K6/48 B60K6/52 B60K6/54 B60L11/14 B60R1/04 B60R11/00 B60R11/02 B60R7/04 B60W10/02 B60W10/06 B60W10/08 B60W20/00 F01B21/04 F02B29/04 F02B43/10 F02D19/02 F02D29/02 F02D29/06 F02D35/00 F02D35/02 F02D41/00 F02D41/20 F02D41/22 F02D41/30 F02D41/36 F02D45/00 F02M21/02 F02M25/12 F02M69/04 G01K13/02 H01R33/00 (Advanced/Invention);
B60K1/04 B60K11/02 B60K6/20 B60R13/02 F02B43/10 F02D19/02 F02D35/00 F02D41/12 F02D41/20 F02D41/22 F02D41/30 F02D45/00 F02M21/02 F02M25/06 F02M35/10 (Advanced/Non–invention);
B60J1/18 B60J5/04 B60J5/10 B60K15/03 B60K6/00 B60R1/02 B60R11/00 B60R11/02 B60R7/04 B60W10/06 B60W10/08 B60W20/00 F02B43/00 F02D19/00 F02D35/00 F02D41/00 F02D41/22 F02D41/32 F02M21/02 F02M25/00 G01K13/00 H01R33/00 (Core/Invention);
B60K1/04 B60K11/02 B60R13/02 F02M35/10 (Core/Non–invention)

International class (IPC 1–7): B60K6/04 B60L1/00 B62D25/10 F02D35/00 F02D41/22 F02D41/36 F02M21/02

CPC: Y02T10/6295 F02D19/061 F02D19/0644 F02D19/0692 F02D19/0697 F02D19/081 F02M21/029 Y10S903/905 Y10S903/906 Y10S903/907 Y10S903/914 Y10S903/917 Y10S903/951 B60J1/1884 B60J5/103 B60R11/02 B60J5/0479 B60K2350/941 B60R1/04 B60R7/04 B60R11/00 B60R2011/0003 B60R2011/0078 B60R2011/0084 B60R2013/0287 Y02T10/32 B60Y2400/435 B60K6/445 B60K6/54 B60K15/07 B60W2510/0671 B60K6/44 B60K6/46 B60K6/48 B60W2710/0616 F02D41/0027 F02D41/0087 F02D41/365 Y02T10/623 Y02T10/6217 Y02T10/6221 Y02T10/6239 Y02T10/6286 Y02T90/42 Y02T10/36 Y10T477/26 B60W20/10 B60K6/40 B60W20/00 B60W10/06 B60W10/08

European class: B60J1/18C3B B60J5/04H5B B60J5/10 B60J5/10C1 B60J5/10C1A B60K15/07 B60K6/04B12D B60K6/04B14 B60K6/04B2 B60K6/04B4 B60K6/04B6 B60K6/04D2 B60K6/04D4 B60K6/04F B60K6/04H2 B60K6/04H4 B60K6/04H6 B60K6/04H6D B60K6/04T4 B60K6/24 B60K6/26 B60K6/28 B60K6/387 B60K6/40 B60K6/44 B60K6/445 B60K6/46 B60K6/48 B60K6/54 B60R1/04 B60R11/00 B60R11/02 B60R7/04 B60W10/06 B60W10/08 B60W20/00 F02B29/04B2 F02D19/02 F02D35/02 F02D41/00F2 F02D41/00H6 F02D41/12B F02D41/36B F02D41/36D F02M21/02 F02M25/12 F02M35/10E2A L60K1/04 L60K11/02 L60K15/07 L60K350/94F L60R11/00P1 L60R11/00R4C L60R11/00R6C L60R13/02R L60W510/06G L60W710/06B Y02T10/62F10 Y02T10/62F2 Y02T10/62F4 Y02T10/62F6 Y02T10/62F6D Y02T10/62J Y02T10/62L Y02T90/12B

US class: 180/65.2 180/65.245 180/65.245S 180/65.25 180/65.250S 180/65.27 180/65.270S 180/65.28 180/65.280S 180/65.285 180/65.285S 296/146.16 296/24.34 296/37.8 296/76 307/10.1 307/10.100P 439/118 439/34 477/5 60/709 60/709P 903/905 903/905S 903/906 903/906S 903/907 903/907S 903/914 903/914S 903/917 903/917S 903/921 903/923 903/925 903/926 903/940 903/941 903/942 903/951 903/951S

Classification Explorer

Cited documents: WO02078987 A2, US6921118 BB, US6840783 BB, US6780020 BB, US6752444 BB, US6659212 BB, US6644707 BB, US6606982, US6585066, US6554088 BB, US6533343 BB, US6446616 BA, US6446616, US6441510 BA, US6419308 BA, US6365983 BA, US6361097 BA, US6360629 BB, US6338391 BA, US6260916 BA, US6203088 BA, US6176080, US6148784 A, US6135529 A, US5975620 A, US5915776 A, US5759051 A, US5698043 A, US5669336, US5632183 A, US5359968 A, US5325275 A, US5317924 A, US5317439 A, US5259655 A, US4989562 A, US4924957 A, US4919625 A, US4877283 A, US4801174 A, US4688425 A, US4638666 A, US4537089 A, US4332219 A, US4332219, US4317439 A, US4243284 A, US4190309 A, US4074924 A, US3910371 A, US3451035 A, US3341802 A, US3321731 A, US3109598 A, US3082033 A, US3081442 A, US2943292 A, US2002135200 AA, US2002098414 AA, US2002094908 AA, US2001039230 AA, US1796081 A, US1537089 A, KR850000933 B1, KR100368471 B1, JP63198762 A2, JP63198762, JP62247152 A2, JP62247152, JP59119299 A2, JP59119229, JP55098659, JP2102327 A2, JP2102327, JP2002525022 T2, JP2002525022, JP2001248491 A2, JP11093681 A2, JP11093681, GB2005348 A1, EP1578632 A1, EP0420599 A2,

Forward Citations: WO12110020, WO09136994, WO09047807, WO09047807, US9623857, US9563988, US9371810, US9371785, US9352737, US9227504, US9086170, US9080503, US8942902, US8857886, US8833324, US8505413, US8387441, US8376906, US8347998, US8317252, US8291884, US8281766, US8225608, US8215691, US8166945, US8123656, US8038573, US8020912, US7992916, US7949442, US7857081, US7801653, US7792628, US7735890, US7703827, US7487750, US7470209, US7278407, US7128362, US2016032817, US2015360678, US2015166050, US2015025769, US2014277975, US2014265331, US2014117708, US2014100727, US2014043269, US2013237360, US2013231836, US2013046427, US2012080002, US2011237388, US2011153150, US2011138883, US2010264689, US2010263375, US2010250100, US2010201151, US2010198439, US2010107632, US2010087290, US2010065001, US2010006360, US2009264248, US2009260353, US2009241905, US2009212585, US2009140544, US2009088944, US2008264051, US2008223631, US2008065301, US2008064558, US2007262610, US2007142152, US2006289213, US2006175864, US2005206185, JP2007051613, FR2987584, EP1897771, EP1897771, EP1690715, EP1632661, DE102014207850, DE102014207850, DE102008040494, CN105459801, CN103867352, CN103517822,

Abstract:
Source: US2004155524A A coupling system that allows maximum flexibility for vehicle users to relocate, remove or replace electrical and/or mechanical devices throughout the interior of a vehicle, with several slot openings formed in the vehicle structure and coupling components which provide the connections of the devices to the vehicle, via the slots.

0) US2004262139A – PUSH SWITCH APPARATUS

79) Family number: 31168194 (US2004262139A) © PatBase

Title: PUSH SWITCH APPARATUS

Priority: JP20030117205 20030422 JP20030117214 20030422

Family:

Publication number	Publication date	Application number	Application date
CN1269156 C	20060809	CN200410035329	20040422
CN1571087 A	20050126	CN200410035329	20040422
DE602004006662 D1	20070712	DE200460006662T	20040421
DE602004006662 T2	20080124	DE200460006662T	20040421
EP1471194 A1	20041027	EP20040009437	20040421
EP1471194 B1	20070530	EP20040009437	20040421
JP2004324098 A2	20041118	JP20030117205	20030422
JP2004327126 A2	20041118	JP20030117214	20030422
JP3897728 B2	20070328	JP20030117205	20030422
JP4211471 B2	20090121	JP20030117214	20030422
US2004262139 AA	20041230	US20040827345	20040420
US7057124 BB	20060606	US20040827345	20040420

Probable Assignee: AISIN SEIKI KK

Assignee(s):(std)**:** AISIN SEIKI ; AISIN TAKAOKA CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA KABUSHIKI KAISHA ; AISIN SEIKI CO LTD ; AISIN SEIKI K K ; AISIN SEIKI KABUSHIKI KAISHA ; AISIN SEIKI KK

Inventor(s):(std)**:** IEDA SEIICHI ; ITO TAKESHI ; KAZUYOSHI MORI ; KIYOKAZU IEDA ; MORI KAZUYOSHI ; MURAKAMI YUICHI ; MUSHIAKE EIJI ; MUSHIAKI EIJI ; NORIYASU ONISHI ; ONISHI NORIYASU ; TAKESHI ITO ; TER IEDA KIYOKAZU MUSHIAKE EIJ ; TERUYA TOMIYASU ; TOMIYASU AKINARI ; TOMIYASU TERUYA ; YUICHI MURAKAMI ; EIJI MUSHIAKE ; IEDA KIYOKAZU

Inventor(s): IEDA KIYOKAZU MUSHIAKE EIJI ITO TAKESHI MORI ; IEDA KIYOKAZU MUSHIAKE EIJI ITO TAKESHI MORI KAZUY ; IEDA KIYOKAZU MUSHIAKE EIJI ITO TAKESHI MORI KAZUYOSHI MURAKAMI YUICHI ONISHI NORIYASU TOMIYASU TERUYA

Agent(s): BURNS DOANE SWECKER AND MATHIS LLP

Designated states: DE FR GB

International class (IPC 8–9): B60J5/04 B60R27/00 B60R99/00 E05B1/00 E05B65/20 E05B65/26 H01H13/00 H01H13/02 H01H13/04 H01H13/06 H01H13/14 H01H3/16 H01H9/06 H01Q1/22 H01Q1/42 (Advanced/Invention); B60J5/04 B60R99/00 E05B1/00 E05B65/20 E05B65/22 H01H13/00 H01H13/02 H01H13/04 H01H13/14 H01H3/16 H01H9/02 H01Q1/22 H01Q1/42 (Core/Invention)

International class (IPC 1–7): B60J5/04 E05B1/00 E05B65/20 H01H13/00 H01H13/02 H01H13/04 H01H13/06 H01H13/14 H01H3/16 H01H35/00 H01Q1/22

CPC: Y10T292/82 E05B81/76 E05B81/77 E05B81/78 H01H3/163 H01H2221/064

European class: E05B81/76 H01H3/16B2 P05B81/77 P05B81/78 T01H221/064

US class: 200/341 200/520 200/61.62 292/347 340/5.72 340/57.2 343/872

Classification Explorer

Cited documents: WO0070633 A1, WO0034604 A1, US6768070 BA, US6768070 B1, US6768070 A, US6696652 BA, US6626473 BA, US6075294 A, US2003122556 AA, JP2003257274 A2, JP2000182459 A2, FR2764105 A1, FR2669767 A1, EP1067257 A1,

Forward Citations: WO15011973, WO10087494, US9741505, US9487974, US9353557, US8575506, US8562037, US8416092, US8408610, US8201856, US8196977, US7984938, US7938460, US7819442, US7763819, US7679571, US7598469, US7575269, US7518072, US7504601, US7375299, US7333021, US7199317, US7192285, US2016160539, US2014367975, US2012167642, US2010187838, US2010134307,

US2010117381, US2010051748, US2010019510, US2008290668, US2008100522, US2008067050, US2008054649, US2007228768, US2007216175, US2007163864, US2006279095, US2005285717, US2005230237, US2005212308, US2005034373, US2005006909, KR101507561, KR101392391, KR100905761, JP5958939, JP5855007, JP4855104, JP4707565, JP4423209, JP2015025261, JP2013511635, JP2012112223, JP2012112222, JP2010229798, JP2010177147, JP2009054430, JP2008248635, JP2008196147, JP2007234550, JP2007188770, JP2007177508, JP2006197503, EP2998493, EP1840845, EP1589167, EP1582659, CN105408568, CN103362377, CN103362377, CN102969180, CN102969180,

Abstract:
Source: US2004262139A A push switch apparatus includes a switch case adapted to be a base member, a switch mounted on the switch case, a switch cap made of an elastic material and supported on the switch case for covering the switch, a switch button supported by the base member and having an actuating portion for pushing the switch and an switch plate mounted on the switch case and arranged between the switch cap and the switch button. The switch plate having a contact surface contacts the switch button when the actuating portion of the switch button pushes the switch.

0) US2004215382A – TELEMATICS SYSTEM

80) Family number: 33357400 (US2004215382A) © PatBase

Title: TELEMATICS SYSTEM

Priority:

US19920878571	19920505	US19930040978	19930331	US19950476077	19950607
US19960640068	19960430	US19940239978	19940509	US19950505036	19950721
US19980137918	19980820	US19990437535	19991110	US19980047703	19980325
US19970905876	19970804	US19970905877	19970804	US19990409625	19991001
US19990448337	19991123	US19980047704	19980325	US20020174709	20020619
US20010753186	20010102	US20020079065	20020219	US20010765558	20010119
US20020114533	20020402	US20020058706	20020128	US20010891432	20010626
US20010838920	20010420	US20000563556	20000503	US20000639299	20000815
US19990448338	19991123	US20000543678	20000407	US20010269415P	20010216
US20010291511P	20010516	US20010304013P	20010709	US20000231378P	20000908
US20040805903	20040322	US20020188673	20020703		

Family:

Publication number	Publication date	Application number	Application date
US2004215382 AA	20041028	US20040805903	20040322
US7050897 BB	20060523	US20040805903	20040322

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s):(std)**:** AUTOMOTIVE TECH INT

Assignee(s): AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C ; AMERICAN VEHICULAR SCIENCES LLC

Inventor(s):(std)**:** BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C

Agent(s): BRIAN

International class (IPC 8–9)**:**
B60C11/24 B60C19/00 B60C23/04 B60C23/06 B60J10/00 B60J7/057 B60N2/00 B60N2/02 B60N2/28 B60N2/48 B60R16/02 B60R16/037 B60R21/01 B60R21/16 B60R22/20 E05F15/00 G01F23/00 G01F23/20 G01F23/296 G01S15/87 G01S15/88 G01S17/88 G01S7/41 G01S7/48 G01S7/539 G06F7/00 G06K9/00 G07C5/00 G07C5/08 (Advanced/Invention);
B60R1/12 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/16 B60R21/20 B60R21/215 B60R21/231 B60R21/26 B60R21/276 B60R22/48 G01S13/04 G01S15/04 G01S15/06 G01S17/89 (Advanced/Non–invention);
B60C11/24 B60C19/00 B60C23/02 B60C23/06 B60J10/00 B60J7/04 B60N2/00 B60N2/02 B60N2/26 B60N2/48 B60R16/02 B60R16/037 B60R21/01 B60R21/16 B60R22/18 E05F15/00 G01F23/00 G01F23/296 G01S15/00 G01S17/00 G01S7/02 G01S7/48 G01S7/539 G06F7/00 G06K9/00 G07C5/00 (Core/Invention);
B60R1/12 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/16 B60R21/20 B60R21/23 B60R21/26 B60R22/00 G01S13/00 (Core/Non–invention)

International class (IPC 1–7)**:** B60R21/32

CPC:
B60N2002/0272 B60C11/24 B60C19/00 B60C23/0449 B60J10/00 B60N2/002 B60N2/0232 B60N2/0248 B60N2/0276 B60N2/28 B60N2/2806 B60N2/4852 B60N2/4885 B60N2002/0268 B60R16/037 B60R21/0134 B60R21/0136 B60R21/21656 B60R21/276 B60R22/20 B60R25/25 B60R25/255 B60R25/257 B60R2001/1223 B60R2001/1253 B60R2021/0027 B60R2021/01315 B60R2021/23153 B60R2021/26094 B60R2021/2765 B60R2022/208 B60R2022/4825 E05Y2900/542 E05Y2900/55 G01F23/0076 G01F23/20 G01F23/296 G01F23/2962 G01S7/417 G01S7/4802 G01S7/539 G01S13/04 G01S15/04 G01S15/06 G01S15/87 G01S15/88 G01S17/88 G01S17/89 G06K9/00362 G07C5/008 G07C5/0808 G10K2210/1282 G10K2210/3219 B60R21/01534 B60R21/01536 B60R21/01538 B60R21/01542 B60R21/01548 B60R21/01552 B60R21/01554 B60R21/0152 B60C11/246 B60R21/01544 E05F15/43 E05F15/431 E05F2015/433 B60H1/00742 B60H1/008 B60R21/015 B60R21/01516

European class:
B60C11/24 B60C19/00 B60C23/04C4 B60C23/04C6D B60C23/04C6D2B B60C23/06C B60J10/00 B60J7/057B B60N2/00C B60N2/02B4 B60N2/02B6B B60N2/02B6W B60N2/28 B60N2/28B2 B60N2/48C3C B60N2/48W B60R16/02B8 B60R16/037 B60R21/0136 B60R21/015 B60R22/20 B60R25/25 B60R25/25D B60R25/25F E05F15/00B6B E05F15/00B6B2 G01F23/00G1A G01F23/20 G01F23/296 G01F23/296D G01S15/87 G01S15/88 G01S17/88 G01S7/41D G01S7/48A G01S7/539 G06K9/00H G07C5/00T G07C5/08D L60N2/02B6S L60R1/12C L60R1/12G L60R21/00C L60R21/0132

L60R21/0134 L60R21/013R L60R21/015G2 L60R21/015G6D L60R21/015G6F L60R21/015G6H L60R21/015G7 L60R21/015G8 L60R21/015G8E L60R21/015G9 L60R21/015J L60R21/2165S L60R21/231M L60R21/26V L60R21/276 L60R21/276L L60R22/20R L60R22/48B2 P05F15/00B6B5R P05Y900/542 P05Y900/550 S01S13/04 S01S15/04 S01S15/06 S01S17/89 S10K210/1282 S10K210/3219

US class: 280/728.1 701/36 701/45 701/45P 701/46 701/47

Classification Explorer

Cited documents: US6738697 BA, US6738697 B1, US6735506 BB, US6735506 BA, US6735506 B1, US6712387 BA, US6687587 BB, US6687587 BA, US6687587 B1, US6662642 BA, US6662642 B1, US6591176 BA, US6577927 BB, US6577927 BA, US6577927 B1, US6549130 BA, US6542077 BB, US6542077 BA, US6542077 B1, US6513833 BB, US6513833 BA, US6513833 B1, US6484080 BB, US6484080 BA, US6484080 B1, US6474683 BA, US6422595 BA, US6412813 BA, US6330499 BA, US6329914 BA, US6326704 BA, US6290255 BA, US6211777 BA, US6175787 BA, US6175787 B1, US6168198 BA, US6168198 B1, US6039139 A, US6028537 A, US6016351 A, US5987381 A, US5871232 A, US5829782 A, US5809437 A, US5722686 A, US5653462 A, US5528698 A, DE3839959 A1,

Forward Citations: WO14033247, WO14031921, WO07048581, WO07039195, WO07019296, WO06120542, US9797998, US9776463, US9679423, US9676238, US9654937, US9517664, US9449514, US9446636, US9417099, US9393878, US9367973, US9359018, US9342933, US9292979, US9279406, US9277370, US9259980, US9234979, US9225782, US9223559, US9208289, US9154900, US9122775, US9114719, US9083581, US9036509, US9026304, US9024743, US9009505, US8989954, US8922100, US8903593, US8897953, US8863256, US8848608, US8841881, US8751092, US8744401, US8742914, US8742913, US8725330, US8718797, US8705527, US8692661, US8576060, US8548686, US8514825, US8502655, US8493081, US8229624, US8157047, US8060282, US7696905, US7580820, US7562167, US7536920, US7490853, US7457785, US7408452, US7260462, US7248955, US7219923, US7177746, US2016306030, US2016025836, US2015017899, US2014337829, US2014297097, US2014114555, US2014107627, US2013038442, US2012171982, US2010268051, US2010227521, US2010185303, US2009254240, US2009153316, US2009099732, US2008252465, US2008147271, US2008046149, US2008040005, US2007209436, US2007130302, US2007125589, US2007125586, US2007090934, US2007032918, US2007030473, US2007006789, US2005240319, US2005216158, US2005137765, US2005016269, US2004245036, US2004225429, EP1795403, CN103661283, CN103294523, CN103294523, CN101817331,

Abstract:
Source: US2004215382A Vehicle telematics system including an occupant sensing system arranged to determine one or more properties or characteristics of occupancy of the vehicle, a crash sensor system for determining when the vehicle experiences a crash and a communications device arranged to enable a communications channel to be established between the vehicle and a remote facility after the vehicle is determined to have experienced a crash. Information determined by the occupant sensing system is transmitted via the communications channel to the remote facility, even in the absence of initiation of the communications channel by the occupant. The occupant sensing system may include an image−obtaining sensor for obtaining images of the passenger compartment of the vehicle, a motion sensor, receivers arranged to receive waves, energy or radiation from seating locations in the passenger compartment, heartbeat sensors, weight sensors associated with seats in the vehicle and/or chemical sensors.

81) Family number: 31193498 (US6811194B)

© PatBase

Title: GARNISH AND SEAL ASSEMBLY FOR A VEHICLE BODY PORTION, AND METHOD OF ATTACHING SAME

Priority: US20030613163 20030703

Family:

Publication number	Publication date	Application number	Application date
US6811194 BA	20041102	US20030613163	20030703

Probable Assignee: HONDA GIKEN KOGYO KK

Assignee(s):(std)**:** HONDA MOTOR CO LTD

Assignee(s): HONDA GIKEN KOGYO K USHIKI KAISHA AB ; HONDA GIKEN KOGYO KABUSHIKI KAISHA ; HONDA GIKEN KOGYO KK

Inventor(s):(std)**:** GAERTNER BRENT ; GEISE LAWRENCE ; ONODERA KAZUO

International class (IPC 8–9)**:** B60J10/00 B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7)**:** B60J10/08

CPC: B60J10/265 B60J10/30 B60J10/45 B60J10/76 B60J10/84 B60J10/86

European class: B60J10/00D7B B60J10/00G B60J10/00G10 B60J10/04D B60J10/08B B60J10/08C

US class: 296/1.08 296/146.1 296/146.9

Classification Explorer

Cited documents: US6644718 BB, US6536834 BB, US6435602 BA, US6397525 BA, US6309011 BA, US6189951 BA, US6142506 A, US6131342 A, US5992924 A, US5806247 A, US5803532 A, US5735081 A, US5527583 A, US5346273 A, US5163730 A, US4653802 A, US4461507 A, US2001038227 AA,

Forward Citations: WO08037906, US9022446, US8840170, US8801070, US8640385, US8544210, US8322078, US8127501, US7841636, US7681281, US7559599, US2013127196, US2012091751, US2012091746, US2011167732, US2010194140, US2010115851, US2008179917, US2007125004, US2007024084, US2006200939, FR3038548, FR2906189, EP2885477,

Abstract:
Source: US6811194B A garnish cooperates with weather strip material to seal an opening in a vehicle body portion. The garnish has a plurality of slots formed in selected portions thereof. In one illustrative embodiment, the garnish is attachable to a door sash frame. The door sash frame is provided with a outer weather strip seal and a plurality of seal clips which are inserted through selected slots in the garnish, thereby concurrently affixing both the garnish and outer weather strip seal to the door sash frame, to contribute to a secure, efficient, and quiet seal for the vehicle opening.

0) WO04098972A1 – CAR EMERGENCY EXIT DEVICE DISPOSITIF DE SORTIE...

82) Family number: 31337929 (WO04098972A1) © PatBase

Title: CAR EMERGENCY EXIT DEVICE

Priority: JP20030128815 20030507 WO2004JP06187 20040428

Family:

Publication number	Publication date	Application number	Application date
AT452806 E	20100115	AT20040730074T	20040428
CA2509109 AA	20050607	CA20042509109	20040428
CA2509109 C	20080115	CA20042509109	20040428
DE602004024778 D1	20100204	DE200460024778T	20040428
EP1623902 A1	20060208	EP20040730074	20040428
EP1623902 A4	20071017	EP20040730074	20040428
EP1623902 B1	20091223	EP20040730074	20040428
JP2004330859 A2	20041125	JP20030128815	20030507
JP4276888 B2	20090610	JP20030128815	20030507
WO04098972 A1	20041118	WO2004JP06187	20040428

Probable Assignee: KAWASAKI HEAVY IND LTD

Assignee(s):(std)**:** ISHIDA TAKESHI ; KAWASAKI HEAVY IND LTD

Assignee(s): KAWASAKI JUKOGYO K K ; KAWASAKI JUKOGYO KABUSHIKI KAISHA ; KAWASAKI JUKOGYO KK

Inventor(s):(std)**:** ISHIDA TAKESHI

Agent(s): KIRBY EADES GALE BAKER; CROSS JAMES PETER ARCHIBALD

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J9/02 B61D17/20 B61D19/00 B61D19/02 B61D23/02 B61D37/00 (Advanced/Invention); B60J9/00 B61D17/04 B61D19/00 B61D23/00 B61D37/00 (Core/Invention)

International class (IPC 1–7): B61D17/20 B61D19/00 B61D23/02 B61D37/00

CPC: B61D19/023 B61D23/02

European class: B61D17/20 B61D19/02B B61D23/02

Classification Explorer

Cited documents: JPH04132839 U, JP7025304 B2, JP7025304 B2, JP59209955 A2, JP59209955, JP53047616, JP4132839 U1, JP4132839 U, JP2002339639 A2, JP2002339639, EP0776808 A1, EP0259886 A2,

Forward Citations: WO16008418, US8561549, TWI503241, KR101606638, KR101488352, JP2014148195, DE102008007059, DE102008007059, CN102303619, CN102303619,

Abstract:
An emergency exit device (1) installed in a car (130) which is used for a passenger to escape from the car for refuge or to move between cars (130) of a train for refuge. An emergency exist device (1) suitable for railway rolling stock, particularly, an automatic operation type unmanned train with no crew members, such as the driver and conductors, on board, wherein the emergency exit device comprises an emergency exit (150), an emergency exit gate mechanism (2), an auxiliary facility (3), and a control mechanism (4) for controlling these components, the arrangement being such that when a passenger operates an unlocking switch (41) installed in the car, the resulting signal is received by a train information management system (called TIMS), whereupon on the basis of this signal, the train information management system controls the door mechanism (2) and auxiliary facility (3).

0) US2007096491A – INTERIOR MEMBER FOR CAB OF WORK VEHICLE AND MET...

83) Family number: 31413434 (US2007096491A) © PatBase

Title: INTERIOR MEMBER FOR CAB OF WORK VEHICLE AND METHOD FOR FORMING SAME AS WELL AS WALL MEMBER

Priority: JP20030166687 20030611 US20040559978 20040608 US20050559978 20051208 US20070836291 20070809 US20090421304 20090409 WO2004JP08275 20040608

Family:

Publication number	Publication date	Application number	Application date
CN100372704 C	20080305	CN200480015982	20040608
CN1802276 A	20060712	CN200480015982	20040608
DE112004001016 T5	20060420	DE200411001016	20040608
GB200526311 A0	20060201	GB20050026311	20040608
GB2418246 A1	20060322	GB20050026311	20040608
GB2418246 B2	20071227	GB20050026311	20040608
JP2004110819 A1	20060720	JP20050506950T	20040608
KR20060008335 A	20060126	KR20057023599	20040608
US2007096491 AA	20070503	US20040559978	20040608
US2007278826 AA	20071206	US20070836291	20070809
US2009200826 AA	20090813	US20090421304	20090409
US7575266 BB	20090818	US20040559978	20040608
US7686992 BB	20100330	US20070836291	20070809
US7753426 BB	20100713	US20090421304	20090409
WO04110819 A1	20041223	WO2004JP08275	20040608

Probable Assignee: KOMATSU MFG CO LTD

Assignee(s):(std)**:** KOMATSU MFG CO LTD ; SATO KANICHI

Assignee(s): KOMATSU LIMITED ; KOMATSU LTD ; KOMATSU LTD TOKIO TOKYO ; KOMATSU MFG CO

Inventor(s):(std)**:** ICHI SATO KAN ; SATO KAN ICHI ; SATO KANICHI

Inventor(s): SATO KAN'ICHI ; KANICHI SATO

Agent(s): FRISHAUF HOLTZ GOODMAN AND CHICK PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B29C65/70 B29C69/00 B60H1/00 B60R13/02 B60R13/08 B62D25/02 B62D33/06 E02F9/16 E04B1/82 (Advanced/Invention); B60J5/04 B60R13/08 E04B1/82 (Advanced/Non–invention); B29C65/70 B29C69/00 B60R13/02 B60R13/08 B62D25/00 B62D33/06 E04B1/82 (Core/Invention); B60J5/04 E04B1/82 (Core/Non–invention)

International class (IPC 1–7): B60R13/02 B60R13/08

CPC: B60R13/08 B29C69/00 B60R13/0237 B60R13/0846 B62D33/0604 B60R13/02

European class: B29C69/00 B60R13/02 B60R13/02D B60R13/08 B60R13/08D B62D33/06C

US class: 181/293 264/251 264/261 264/267 264/45.1 264/46.5 296/146.7 296/190.08 296/39.3

Classification Explorer

Cited documents: USRE37139 E, US7575266 BB, US7284784 BB, US6861100 BA, US6447047 BA, US6409947 BA, US6238507 BA, US5744763 A, US5626382 A, US5595415 A,

US5472760 A, US5389317 A, US5345720 A, US5280991 A, US5111619 A, US5040335 A, US4971850 A, US4825974 A, US4546899 A, US4351870 A, US4308308 A, US4206267 A, US3989275 A, US3868796 A, US3829150 A, US2973295 A, US2198885 A, US2069413 A, US2009200826 AA, US2007278826 AA, US2007096491 AA, US2006216479 AA, US2006202499 AA, US2004212221 AA, US2004113455 AA, US2003066708 AA, JPS6452842 U, JPS58150545 U, JPS58150545, JPS52151509 U, JP9105150 A2, JP64052842 U1, JP64052842, JP63188544 A2, JP61113535 A2, JP60240571 A2, JP60240543 A2, JP59120545 A2, JP58183330 A2, JP58150545 U1, JP58150545 A2, JP52151509 U1, JP52151509 A2, JP52062815 A2, JP5042824 A2, JP4201750 A2, JP4169346 A2, JP2003032861 A2, JP2002205528 A2, JP2000319938 A2, JP10095369 A2, EP0571640 A1, DE3932121 A1, DE3502056 A1, DE3215244 A1, DE19958374 A1, DE19956335 A1, DE140663 A,

Forward Citations: USD751123, US9133603, US8491041, US8104826, US7753426, US7703840, US7686992, US7575266, US2013221703, US2010287341, US2010253115, US2010244488, US2009200835, US2009200826, US2008252102, US2007278826, US2007096491, KR101391915, CN103434456,

Abstract:
Source: US2007096491A An object is to enhance the sound absorbing functions of an interior member, and furthermore, to increase ease of assembly of the interior member, and the interior member for the cab is integrally formed so as to have a laminated structure where a sound absorbing material is contained between an outer layer material and a foundation body panel, or inside a foundation body panel. In addition, such an interior member is formed in accordance with a reaction injection molding method.

0) US2007107315A – DOOR MODULE

84) Family number: 31424097 (US2007107315A) © PatBase

Title: DOOR MODULE

Priority: DE20031029238 20030625 WO2004EP06847 20040624

Family:

Publication number	Publication date	Application number	Application date
AT404395 E	20080815	AT20040740260T	20040624
CN100445119 C	20081224	CN200480018037	20040624
CN1812897 A	20060802	CN200480018037	20040624
DE10329238 A1	20050120	DE20031029238	20030625
DE502004007848 D1	20080925	DE2004500078 48T	20040624
EP1636057 A1	20060322	EP20040740260	20040624
EP1636057 B1	20080813	EP20040740260	20040624
JP2009513400 T2	20090402	JP20060516046T	20040624
JP4838119 B2	20111214	JP20060516046	20040624
KR101203418 B1	20121121	KR20057024916	20040624
KR20060033869 A	20060420	KR20057024916	20040624
US2007107315 AA	20070517	US20040562172	20040624
US8065836 BB	20111129	US20040562172	20040624
WO04113105 A1	20041229	WO2004EP06847	20040624

Probable Assignee: FAURECIA INNENRAUM SYSTEME GMBH

Assignee(s):(std)**:** ECKHARDT BERNHARD ; FAURECIA INNENRAUM SYS GMBH ; FAURECIA INNENRAUM SYSTEM GMBH ; FAURECIA INNENRAUM SYSTEME GMB ; KOELLNER HARALD ; SAI AUTOMOTIVE SAL GMBH ; SCHLIWA ENRICO ; ZIMMERMANN ERIC ; WANDTKE SEBASTIAN ; ZIMMERMAN ERIC

Assignee(s): FAURECIA INNENRAUM SYSTEME GMBH

Inventor(s):(std)**:** BERNHARD ECKHARDT ; ECKHARDT BERNHARD ; ENRICO SCHLIWA ; ERIC ZIMMERMANN ; HARALD KOELLNER ; KOELLNER HARALD ; SCHLIWA ENRICO ; SEBASTIAN KOELLNER HARALD SCHL ; SEBASTIAN WANDTKE ; WANDTKE SEBASTIAN ; ZIMMERMAN ERIC ; ZIMMERMANN ERIC

Inventor(s): KOELLNER HARALD SCHLIWA ENRICO ZIMMERMANN ERIC ; KOELLNER HARALD SCHLIWA ENRICO ZIMMERMANN ERIC ECK

Agent(s): PFENNING MEINIG AND PARTNER GBR; FAY KAPLUN AND MARCIN LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J1/08 B60J5/00 B60J5/04 (Advanced/Invention); B60J5/00 B60J5/04 (Advanced/Non–invention); B60J5/00 B60J5/04 (Core/Invention)

International class (IPC 1–7): B60J5/00 B60J5/04

CPC: B60J5/0416 B60J5/0418 B60J5/0468

European class: B60J5/04 B60J5/04D4 B60J5/04D5 B60J5/04G

US class: 296/146.1 296/146.7 49/502 49/502P

Classification Explorer

Cited documents: US7100330 BB, US6862846 BA, US6676195 BA, US6412852 BA, US6412852, US6381906 BA, US5927021 A, US5048234 A, US5048234, US4845894 A, US4597153 A, US2004049988 AA, US2001037607 AA, JP60119642 U1, JP60119642, JP2296534 A2,

JP2003072370 A2, JP2000272345 A2, JP2000272344 A2, EP1060918 A1, DE69606263 T2, DE69606263, DE19946307 A1, DE10040954 A1,

Forward Citations: US9216630, US7913455, US2009145041, US2008295415, US2007062123, US2007056219, DE102005043183,

Abstract:
Source: US2007107315A Described is a door module and a motor vehicle door containing the door module. The door module includes a base body for covering openings in a motor vehicle door. Displaceable brackets are provided, preferably in the edge area of the base body, in relation to the base body in order to support the motor vehicle door on the edge area of the opening. The brackets respectively include at least one fixing point which is used to secure the inside door panel. This enables a gap between an inside door covering and an inside door panel in motor vehicle doors to be adjusted in a precise and economical manner.

0) US2005017488A – WEIGHT MEASURING SYSTEMS AND METHODS FOR VEHICL...

85) Family number: 33357402 (US2005017488A) © PatBase

Title: WEIGHT MEASURING SYSTEMS AND METHODS FOR VEHICLES

Priority:

US19920878517	19920505	US19920878571	19920505	US19940239978	19940509
US19930040978	19930331	US19950474786	19950607	US19950474783	19950607
US19960640068	19960430	US19970905876	19970804	US19950505036	19950721
US19970970822	19971114	US19970905877	19970804	US19970919823	19970828
US19970798029	19970206	US19970992525	19971217	US19990437535	19991110
US19980047703	19980325	US19990476255	19991230	US19990389947	19990903
US19980200614	19981130	US19980193209	19981117	US19980128490	19980804
US19980047704	19980325	US19990409625	19991001	US19990448337	19991123
US19990448338	19991123	US20000500346	20000208	US19990474147	19991229
US19990382406	19990824	US19980114507P	19981231	US19990136163P	19990527
US20040895121	20040721	US20030733957	20031211	US20020116808	20020405
US20010925043	20010808	US20010765559	20010119	US20010838919	20010420
US20010838920	20010420	US20000563556	20000503	US20010849559	20010504
US20020058706	20020128	US20010891432	20010626	US20000543678	20000407
US20000639299	20000815	US20020061016	20020130	US20010901879	20010709
US20020114533	20020402	US20020151615	20020520	US20020227781	20020826
US20020234436	20020903	US20010853118	20010510	US20020302105	20021122
US20030365129	20030212	US20000613925	20000711	US20020234063	20020903
US20000838920	20000420	US20000838920	20000420		

Family:

Publication number	Publication date	Application number	Application date
US2005017488 AA	20050127	US20040895121	20040721
US7407029 BB	20080805	US20040895121	20040721

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s):(std): AUTOMOTIVE TECH INT ; BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C

Assignee(s): AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; AUTOMOTIVE TECHNOLOGIES INT ; AMERICAN VEHICULAR SCIENCES LLC

Inventor(s):(std): BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C ; MORIN JEFFREY L

Inventor(s): JOHNSON WENDELL ; DUVALL WILBUR ; BREED DAVID

Agent(s): BRIAN ROFFE ESQ; ROFFE BRIAN; BRIAN

International class (IPC 8–9):
B60J10/00 B60K28/10 B60N2/00 B60N2/015 B60N2/02 B60N2/06 B60N2/28 B60N2/48 B60N2/66 B60Q1/14 B60R16/02 B60R16/037 B60R21/01 B60R22/20 E05F15/00 G01F23/00 G01F23/20 G01F23/296 G01G19/414 G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/88 G01S7/41 G01S7/48 G01S7/539 G06K9/00 (Advanced/Invention);
B60R1/12 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/16 B60R21/20 B60R21/203 B60R21/215 B60R21/231 B60R21/26 B60R21/276 B60R22/28 B60R22/46 B60R22/48 G01S13/04 G01S15/06 G01S17/89 (Advanced/Non-invention);
B60J10/00 B60K28/10 B60N2/00 B60N2/005 B60N2/02 B60N2/06 B60N2/26 B60N2/48 B60N2/64 B60Q1/14 B60R16/02 B60R16/037 B60R21/01 B60R22/18 E05F15/00 G01F23/00 G01F23/296 G01G19/40 G01S15/00 G01S17/00 G01S7/02 G01S7/48 G01S7/539 G06K9/00 (Core/Invention);
B60R1/12 B60R21/013 B60R21/0132 B60R21/0134 B60R21/015 B60R21/16 B60R21/20 B60R21/23 B60R21/26 B60R22/00 B60R22/28 B60R22/46 G01S13/00 (Core/Non-invention)

International class (IPC 1–7): B60R21/32

CPC:
B60N2002/0272 B60R21/013 B60N2/002 B60N2/015 B60N2/0224 B60N2/0232 B60N2/0244 B60N2/0248 B60N2/0252 B60N2/0276 B60N2/067 B60N2/28 B60N2/2806 B60N2/2863 B60N2/4829 B60N2/4852 B60N2/4885 B60N2/66 B60N2002/0268 B60R16/037 B60R21/0132 B60R21/0134 B60R21/0136 B60R21/203 B60R21/21656 B60R21/276 B60R22/20 B60R22/201 B60R25/25 B60R25/252 B60R25/255 B60R25/257 B60R2001/1223 B60R2001/1253 B60R2021/0027 B60R2021/01315 B60R2021/23153 B60R2021/26094 B60R2021/2765 B60R2022/208 B60R2022/288 B60R2022/4685 B60R2022/4825 E05Y2900/55 G01S7/417 G01S7/4802 G01S7/539 G01S13/04 G01S15/04 G01S15/06 G01S15/42 G01S15/87 G01S15/88 G01S17/88 G01S17/89 G06K9/00369 G10K2210/1282 G10K2210/3219 B60R21/01516 B60R21/01532

B60R21/01534 B60R21/01536 B60R21/01538 B60R21/01542 B60R21/01546 B60R21/01548 B60R21/01552 B60R21/01554 B60R21/0152 B60R21/0153 B60R21/01544 E05F15/43 E05F15/431 E05F2015/433

European class: B60J10/00 B60N2/00C B60N2/015 B60N2/02B B60N2/02B4 B60N2/02B6 B60N2/02B6B B60N2/02B6C B60N2/02B6W B60N2/06S B60N2/28 B60N2/28B2 B60N2/28P4 B60N2/48C2C B60N2/48C3C B60N2/48W B60N2/66 B60Q1/14C1B B60R16/02B8 B60R16/037 B60R21/013 B60R21/0136 B60R21/015 B60R22/20 B60R25/25 B60R25/25B B60R25/25D B60R25/25F E05F15/00B6B E05F15/00B6B2 G01G19/414A G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/88 G01S7/41D G01S7/48A G01S7/539 G06K9/00H1 L60N2/02B6S L60Q300/410 L60Q300/420 L60R1/12C L60R1/12G L60R21/00C L60R21/0132 L60R21/0134 L60R21/013R L60R21/015G2 L60R21/015G6 L60R21/015G6B L60R21/015G6D L60R21/015G6F L60R21/015G6H L60R21/015G7 L60R21/015G8 L60R21/015G8C L60R21/015G8E L60R21/015G9 L60R21/015J L60R21/01H3Y L60R21/203 L60R21/2165S L60R21/231M L60R21/26V L60R21/276 L60R21/276L L60R22/20B L60R22/20R L60R22/28L L60R22/46L L60R22/48B2 P05F15/00B6B5R P05Y900/550 S01S13/04 S01S15/04 S01S15/06 S01S15/88 S01S17/89 S10K210/1282 S10K210/3219

US class: 180/173 180/274 180/45 180/47 280/735 280/735P

Classification Explorer

Cited documents: WO9830411 A1, WO9825112 A2, WO0113076 A1, WO0112473 A1, US6653577 BB, US6578871 BB, US6555766 BB, US6442504 BA, US6345839 BA, US6253134 BA, US6240352 BA, US6231076 BA, US6218632 BA, US6161891 A, US6104100 A, US6101436 A, US6087598 A, US6081757 A, US6078854 A, US6069325 A, US6056079 A, US6039344 A, US6015163 A, US5991676 A, US5984349 A, US5943295 A, US5942695 A, US5927427 A, US5918696 A, US5904219 A, US5902010 A, US5877677 A, US5848802 A, US5844486 A, US5829782 A, US5822707 A, US5802497 A, US5802479 A, US5785347 A, US5748473 A, US5714695 A, US5702123 A, US5695242 A, US5694320 A, US5691693 A, US5670853 A, US5653462 A, US5583771 A, US5573269 A, US5531472 A, US5490718 A, US5474327 A, US5454591 A, US5444881 A, US5439249 A, US5413378 A, US5377108 A, US5330226 A, US5254924 A, US5232243 A, US5222399 A, US5186494 A, US5176424 A, US5161820 A, US5155685 A, US5125686 A, US5118134 A, US5090493 A, US5086652 A, US5082326 A, US5074583 A, US5071160 A, US5029939 A, US5008946 A, US4957286 A, US4907153 A, US4846220 A, US4840425 A, US4811226 A, US4698571 A, US4697656 A, US4645233 A, US4639872 A, US4625329 A, US4625320 A, US4519652 A, US3275975 A, JP4138996 A2, JP3062699 A2, JP3032943 A2, GB2340252 A1, GB2333070 A1, GB2289332 A1, EP0990565 A1, EP0950560 A2, EP0728636 A1, EP0721863 B1, EP0345806 A2, EP0152092 A1,

Forward Citations: US9756262, US9650006, US9606612, US9380976, US9333880, US9265458, US9247828, US9245184, US9221428, US9156421, US9022468, US9008641, US8970232, US8970231, US8882310, US8829925, US8820782, US8620821, US8571760, US8554461, US8463500, US8292020, US8235416, US8131498, US8086375, US7950688, US7900736, US7894960, US7815219, US7779956, US7774116, US7770920, US7660668, US7620521, US7512573, US7475903, US7353216, US7177743, US7177740, US2015266439, US2015055825, US2014350797, US2014277952, US2014168433, US2013313871, US2013261900, US2013113249, US2013107040, US2013009654, US2012306512, US2012226421, US2012078464, US2012013155, US2011260435, US2010191390, US2010066064, US2009276125, US2009243354, US2009098668, US2008266641, US2008209934, US2008201042, US2008189053, US2008185826, US2008185825, US2008154815, US2008114543, US2008114517, US2008055194, US2008046200, US2008042408, US2008036252, US2007251749, US2007228704, US2007154045, US2007135982, US2007132220, US2007089540, US2007005533, US2006226641, US2005269810, US2005073136, US2004243292, FR2943236, EP2409640, CN102233836,

Abstract:
Source: US2005017488A Weight sensor for determining the weight of an occupant of a seat including a bladder arranged in a seat portion of the seat and including material or structure in an interior thereof which constrains fluid flow therein and one or more transducers for measuring the pressure of the fluid in the bladder. The material or structure might be open cell foam. The bladder may include one or more chambers, and if more than one chamber is formed, each chamber can be arranged at a different location in the seat portion of the seat.

0) US2005046124A – WEATHERSEAL WITH SEALING SURFACE HAVING STRIPS ...

86) Family number: 31719709 (US2005046124A) © PatBase

Title: WEATHERSEAL WITH SEALING SURFACE HAVING STRIPS OF MATERIAL EXHIBITING REDUCED ADHESION BONDING TO FROZEN WATER

Priority: US20030649463 20030826

Family:

Publication number	Publication date	Application number	Application date
US2005046124 AA	20050303	US20030649463	20030826
WO05021307 A1	20050310	WO2004US27410	20040823

Probable Assignee: SCHLEGEL CORP

Assignee(s):(std)**:** PRAVATO GEORGE R ; SCHLEGEL CORP ; ZWOLINSKI DAVID T

Assignee(s): ROYAL BANK OF SCOTLAND PLC SECURITY AGENT AS ; ROYAL BANK OF SCOTLAND PLC AS SECURITY AGENT ; BANK OF AMERICA N A ; METZELER AUTOMOTIVE PROFILE SYSTEMS IOWA INC ; METZELER AUTOMOTIVE PROFILE SYSTEMS NORTH CAROLINA ; METZELER AUTOMOTIVE PROFILE SYSTEMS NORTH CAROLINA INC ; METZELER AUTOMOTIVE PROFILE SYSTEMS OKLAHOMA INC

Inventor(s):(std)**:** PRAVATO GEORGE R ; ZWOLINSKI DAVID T

Inventor(s): PRAVATO GEORGE ; ZWOLINSKI DAVID

Agent(s): STEPHEN B SALAI ESQ HARTER SECREST AND EMERY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J10/00 B60J10/08 (Advanced/Invention); B60J10/00 (Core/Invention)

International class (IPC 1–7): B60J10/00 F16J15/02

CPC: B60J10/80 B60J10/16 B60J10/17

European class: B60J10/00C2 B60J10/00C3 B60J10/08

US class: 277/644

Classification Explorer

Cited documents: WO0005088 A1, US6849310 BB, US6679003 BB, US6401397 BB, US6368700 BA, US6245409 BA, US6098992 A, US5969022 A, US5840401 A, US5763011 A, US5562961 A, US5545448 A, US5525427 A, US5489461 A, US5489104 A, US5449544 A, US5447671 A, US5441685 A, US5424019 A, US5395579 A, US5390974 A, US5377449 A, US5366808 A, US5343655 A, US5314752 A, US5311702 A, US5306537 A, US5207029 A, US5183613 A, US5014464 A, US5013379 A, US5007202 A, US5005317 A, US4994311 A, US4970102 A, US4969293 A, US4920699 A, US4913976 A, US4800681 A, US4702039 A, US4643923 A, US4542610 A, US4538380 A, US4442156 A, US4311747 A, US4232081 A, US3939608 A, US3775907 A, US3153265 A, US2002152687 AA, US2002110663 AA, US2002064660 AA, EP0627341 A1, EP0021989 A2, DE4202475 A1, DE19860003 A1,

Forward Citations: US2005242571, FR2890032,

Abstract:
Source: US2005046124A A weatherseal has a portion of a sealing area defined by a freeze release material. The freeze release material has a lower affinity to bonding with water or ice than an adjacent area of the sealing area. The freeze release material is incorporated into the sealing portion to reduce the overall affinity of the weatherseal to ice bonding, while maintaining the desired performance characteristics of the seal including the flexibility and recovery of the sealing surface. The area of contact by the weatherseal is defined by both the freeze release material and a different material forming an adjacent portion of the weatherseal.

0) US2005184415A – METHOD FOR PRODUCING EXTRUDED PRODUCTS

87) Family number: 32191890 (US2005184415A) © PatBase

Title: METHOD FOR PRODUCING EXTRUDED PRODUCTS

Priority: JP20040030204 20040206 JP20040043091 20040219 JP20040044086 20040220

Family:

Publication number	Publication date	Application number	Application date
JP2005219362 A2	20050818	JP20040030204	20040206
JP2005231189 A2	20050902	JP20040043091	20040219
JP2005231222 A2	20050902	JP20040044086	20040220
JP4164812 B2	20081015	JP20040044086	20040220
JP4193134 B2	20081210	JP20040030204	20040206
US2005184415 AA	20050825	US20050049299	20050203

Probable Assignee: TOYODA GOSEI CO LTD

Assignee(s):(std)**:** TOYODA GOSEI KK

Assignee(s): OHASHI MASAKI ; TOYODA GOSEI CO LTD

Inventor(s):(std)**:** OHASHI MASAKI

Agent(s): POSZ LAW GROUP PLC

International class (IPC 8–9)**:** B29C47/02 B29C47/04 B29C47/08 B29C47/58 B29C47/92 B29D99/00 B60J10/00 B60J10/08 (Advanced/Invention); B29C35/04 B29C35/08 B29K21/00 B29L31/30 B29L31/58 (Advanced/Non–invention); B29C47/02 B29C47/04 B29C47/08 B29C47/58 B29C47/92 B29D99/00 B60J10/00 (Core/Invention); B29C35/04 B29C35/08 (Core/Non–invention)

International class (IPC 1–7)**:** B29C47/02 B29C47/04 B29C47/58 B29C47/92 B60J10/08

CPC: B29C47/28 B29C47/065 B29C47/0816 B29C47/0874 B29C47/74 B29C2947/92638 B29C2947/92933 B29C47/025 B29C35/045 B29C47/003 B29C47/92 B29C2035/0861 B29C2793/009 B29C2947/92066 B29C2947/92076 B29C2947/92114 B29C2947/92142 B29C2947/92466 B29C2947/926 B29C2947/92609 B29C2947/92885 B29C2947/92961 B29K2023/16 B60J10/16 B60J10/17 B60J10/80

European class: B29C47/02C B29C47/92 B60J10/00C2 B60J10/00C3 B60J10/08 L29C35/04C L29C35/08B10 L29C47/00J9 L29C793/00J L29C947/92B12 L29C947/92B14 L29C947/92B18 L29C947/92B18D L29C947/92C18 L29C947/92E16C L29C947/92E18 L29C947/92F18 L29C947/92F8C2 L29K23/16

US class: 264/211.23 264/211.230S 264/40.1 264/40.100P

Classification Explorer

Cited documents: US6647667 BB, US6110546 A, US5753063 A, US4832960 A, US2003021986 AA, US2003009947 AA, US2001033927 AA, JP9267378, JP61167521, JP59114040, JP5192982, JP3087227, JP3034832,

Forward Citations: WO14060992, US8793937, US8205391, US2009120007, ITBO20120567, CN104056995,

Abstract:
Source: US2005184415A In a method for producing many extruded products having different specifications in the same production line, a continuous extruded products is extrusion molded. A symbol is attached to the surface of the continuous extruded products on the basis of the specification data of a product to be subsequently produced from a process controller. The extruded products is conveyed to a processing step. In the processing step, the image of the symbol provided on the surface of the extruded products is recognized. A product identification signal based on the recognition of the image is transmitted to the process controller to carry out a predetermined process thereto. The process controller selects the specification data of the product and sends the specification data of the product to the processing step. A processing work based on the specification data of the product is automatically switched to produce the many extruded products having the different specifications in the same production line.

0) US2005192727A – SENSOR ASSEMBLIES

88) Family number: 33357411 (US2005192727A) © PatBase

Title: SENSOR ASSEMBLIES

Priority:
US19940239977 19940509 US19950476077 19950607 US19950571247 19951212
US19950550217 19951030 US19970819609 19970317 US19960028046P 19961009
US19980137918 19980820 US19980073403 19980506 US19990356314 19990716
US19970947661 19971009 US20000645709 20000824 US20000231378P 20000908
US20010269415P 20010216 US19990170973P 19991215 US20020188673 20020703
US20010753186 20010102 US20020174709 20020619 US20020330938 20021227
US20030613453 20030703 US20010925062 20010808 US20010767020 20010123
US20010765558 20010119 US20020079065 20020219 US20030638743 20030811
US20020043557 20020111 US20020423613P 20021104 US20030461648P 20030408
US20010291511P 20010516 US20010304013P 20010709 US20020415862P 20021003
US20050120065 20050502 US20050082739 20050317 US20030701361 20031104
US20030642028 20030815 US20050039129 20050119 US20030658750 20030909
US20040592838P 20040730

Family:

Publication number	Publication date	Application number	Application date
US2005192727 AA	20050901	US20050120065	20050502

Probable Assignee: AUTOMOTIVE TECHNOLOGIES INT INC

Assignee(s):(std)**:** AUTOMOTIVE TECH INT

Assignee(s): AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC

Inventor(s):(std)**:** BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C ; KOLOMEYKO ANATOLIY V ; SHOSTAK OLEKSANDR T

Inventor(s): BREED DAVID ; SHOSTAK OLEKSANDR ; KOLOMEYKO ANATOLIY ; JOHNSON WENDELL ; DUVALL WILBUR

Agent(s): BRIAN ROFFE ESQ

International class (IPC 8–9)**:**
B60C11/24 B60C19/00 B60C23/04 B60C23/06 B60J10/00 B60N2/00 B60R21/01 B60R21/16 B60R21/20 B60R21/213 B60R21/231 B60R21/233 B60R21/235 B60R21/30 G01F23/00 G01F23/20 G01F23/26 G01F23/296 G01F23/36 G02B27/01 G07C5/00 G07C5/08 H01Q1/22 (Advanced/Invention);
B60R21/00 G02B27/00 (Advanced/Non–invention);
B60C11/24 B60C19/00 B60C23/02 B60C23/06 B60J10/00 B60N2/00 B60R21/01 B60R21/16 B60R21/20 B60R21/23 B60R21/30 G01F23/00 G01F23/22 G01F23/296 G01F23/30 G02B27/01 G07C5/00 H01Q1/22 (Core/Invention);
B60R21/00 G02B27/00 (Core/Non–invention)

International class (IPC 1–7)**:** G06F7/00

CPC:
B60N2002/0272 B60R21/0136 B60C11/24 B60C19/00 B60C23/041 B60C23/0411 B60C23/0449 B60C23/12 B60J10/00 B60N2/002 B60R21/20 B60R21/213 B60R21/232 B60R21/233 B60R21/235 B60R21/30 B60R2021/0004 B60R2021/23107 B60R2021/23153 B60R2021/23161 B60R2021/23169 B60R2021/23519 B60R2021/23523 B60R2021/23557 B60R2021/2358 B60R2021/2359 G02B27/01 G02B2027/014 G02B2027/0187 G06K7/10178 G07C5/008 G07C5/0808 H01Q1/22 H01Q1/2241

European class:
B60C11/24 B60C19/00 B60C23/04C3 B60C23/04C3A B60C23/04C6D2B B60C23/12 B60J10/00 B60N2/00C B60R21/0136 B60R21/16B2B B60R21/16B2V B60R21/16B4 B60R21/20 B60R21/20K B60R21/213 B60R21/232 B60R21/233 B60R21/235 B60R21/30 G01F23/00G1A G01F23/20 G01F23/26B G01F23/296D G01F23/36 G02B27/01 G06K7/10A3C G07C5/00T G07C5/08D H01Q1/22 H01Q1/22C8 L60R21/00A1 L60R21/231C L60R21/231M L60R21/231N L60R21/231P L60R21/235M3 L60R21/235M5 L60R21/235P6 L60R21/235S4 L60R21/235S6 S02B27/01A11 S02B27/01D4

US class: 701/1 701/1S 701/37 701/37P

Classification Explorer

Cited documents: US6581449 BA, US6577238 BA, US6571617 BB, US6463798 BB, US6377203 BA, US2004246100 AA, US2004110472 AA, US2004048622 AA, US2003228879 AA, US2002197955 AA, US2002092347 AA, US2002092346 AA,

Forward Citations: WO16014055, WO14127046, WO13176646, WO12090199, WO12090199, WO11162790, WO10144292, WO10103509, WO10054014, WO09156253, WO09134525, WO09131381, WO09131381, WO09111511, WO09052056, WO09046103, WO09026304, WO08156633, WO08118615, WO08112461, WO08054429, WO08030509, WO07082011, WO07074435, WO07074435, USD684067, USD643321, USD634657, USD634656, USD634655, US9792361, US9784590, US9779757, US9778659, US9776463, US9762665, US9759622, US9755129, US9753442, US9747729, US9729341, US9679423, US9678486, US9676238, US9651925, US9648374, US9646492, US9644472, US9636956, US9632490, US9600011, US9594379, US9593521, US9553724, US9542863, US9531214, US9531184, US9526074, US9523993, US9518885, US9517664, US9511668, US9507363, US9507362, US9500385, US9494478, US9485649, US9483881, US9483055, US9476785, US9457742, US9453755, US9446636, US9443358, US9432208, US9428124, US9423802, US9393878, US9389831, US9386335, US9376118, US9367973, US9342933, US9335924, US9333861, US9325517, US9320433, US9292979, US9280859, US9274601, US9274525, US9272711, US9268345, US9259980, US9244569, US9230227, US9216744, US9185176, US9167423, US9145033, US9142066, US9114719, US9111154, US9097522, US9092026, US9090203, US9086277, US9084004, US9079494, US9079462, US9079461, US9071911, US9059784, US9057677, US9026304, US9024743, US9022293, US9014908, US8994539, US8988193, US8977794, US8966565, US8965700, US8929814, US8909419, US8903643, US8897953, US8892797, US8874815, US8855825, US8841881, US8831854, US8825271, US8811925, US8811614, US8805763, US8802981, US8798796, US8794063, US8788100, US8775454, US8775077, US8774210, US8773535, US8770140, US8762666, US8761945, US8751092, US8746045, US8744629, US8742914, US8742913, US8738280, US8737244, US8731999, US8731830, US8725330, US8725298, US8723661, US8713697, US8700445, US8700325, US8700266, US8694164, US8692661, US8686940, US8676657, US8670897, US8661165, US8655491, US8655490, US8644965, US8643559, US8638774, US8626571, US8626413, US8620616, US8620572, US8615326, US8613033, US8612148, US8600559, US8600558, US8600526, US8583264, US8577711, US8576060, US8564544, US8564400, US8560125, US8554498, US8549909, US8548639, US8548630, US8543243, US8542122, US8527096, US8502655, US8498759, US8494704, US8478525, US8478524, US8478523, US8478506, US8473209, US8468154, US8467969, US8463443, US8463442, US8457893, US8452906, US8452456, US8442766, US8442693, US8437916, US8437878, US8437877, US8436723, US8433446, US8412473, US8407001, US8401791, US8400155, US8393208, US8390455, US8386178, US8384544, US8374789, US8370020, US8370016, US8364305, US8362962, US8361543, US8358210, US8327564, US8311765, US8299938, US8290630, US8285048, US8280631, US8280168, US8276215, US8267383, US8260948, US8260201, US8223021, US8217760, US8204802, US8180520, US8160731, US8152053, US8151311, US8115635, US8104341, US8096069, US8081301, US8077040, US8064475, US8060304, US8027763, US8025227, US8020438, US8005020, US8001620, US7997475, US7994919, US7986968, US7986657, US7983211, US7948371, US7934494, US7932869, US7932827, US7931197, US7925399, US7924774, US7916008, US7911402, US7908134, US7905143, US7903596, US7830320, US7820468, US7788048, US7783330, US7772978, US7764191, US7735918, US7726440, US7715983, US7706320, US7657354, US7640105, US7636044, US7636031, US7617045, US7616124, US7616117, US7580782, US7580361, US7561056, US7542995, US7536903, US7533890, US7474214, US7453403, US7432855, US7424326, US7382315, US7363129, US7342496, US7336162, US7245059, US7054760, US2017113698, US2016229394, US2016084665, US2016041811, US2016001718, US2015379871, US2015377945, US2015346009, US2015330173, US2015222143, US2015197965, US2015177045, US2015170426, US2015138449, US2015038864, US2015007441, US2014371922, US2014350820, US2014347194, US2014330500, US2014309982, US2014259314, US2014222267, US2014195101, US2014195099, US2014093173, US2014074340, US2014012535, US2014005854, US2013258077, US2013244577, US2013241894, US2013218368, US2013218364, US2013180979, US2013168380, US2013151069, US2013110354, US2013106597, US2013038442, US2012316768, US2012296451, US2012283939, US2012221231, US2012215641, US2012212612, US2012180755, US2012150386, US2012147189, US2012143447, US2012081231, US2012041660, US2012016533, US2012003993, US2012002698, US2011293186, US2011293181, US2011251710, US2011242048, US2011221566, US2011216695, US2011172885, US2011085155, US2011057812, US2011046793, US2010324858, US2010315978, US2010271172, US2010242593, US2010209892, US2010209891, US2010209887, US2010209881, US2010204876, US2010204869, US2010191483, US2010153029, US2010139393, US2010121521, US2010107109, US2010107071, US2010107070, US2010082158, US2010076683, US2010070369, US2010070365, US2010070357, US2010070338, US2010066498, US2010047949, US2010030738, US2010026518, US2010019424, US2010013601, US2009299570, US2009289757, US2009284351, US2009267920, US2009267892, US2009254240, US2009240390, US2009235737, US2009224991,

US2009222973, US2009222205, US2009213078, US2009193217, US2009164347, US2009144791, US2009129593, US2009121840, US2009096599, US2009066497, US2009051611, US2009046028, US2009025474, US2008319665, US2008316996, US2008316006, US2008309568, US2008297334, US2008285916, US2008238697, US2008233946, US2008211684, US2008210762, US2008201054, US2008198007, US2008195299, US2008186170, US2008129525, US2008091346, US2008082698, US2008074244, US2008055287, US2008042410, US2007299587, US2007296545, US2007285022, US2007283758, US2007255466, US2007252691, US2007250313, US2007250228, US2007239740, US2007233326, US2007165545, US2007161371, US2007161367, US2007161352, US2007160001, US2007139185, US2007139178, US2007131005, US2007120586, US2007116021, US2007107505, US2007103296, US2007083896, US2007083306, US2007073459, US2007073458, US2006290484, US2006279458, US2006235586, US2005275308, US2005234602, US2005224280, US2005107926, US2004215407, US2004181358, US2004125120, US2004049578, RU2486646, RU2473097, GB2466903, GB2466162, GB2466162, EP1772707, CN105263731, CN104125892, CN103152667, AU2015230722,

Abstract:
Source: US2005192727A Sensor assembly capable of obtaining and providing a measurement of a physical quantity, e.g., measurement of temperature and/or pressure of a vehicular tire, includes an antenna capable of receiving a radio frequency signal, a radio frequency identification (RFID) device coupled to the antenna, a sensor coupled to the RFID device arranged to generate a measurement of the physical quantity or quantities, and a switch coupled to the RFID device and arranged to connect or disconnect the sensor from a circuit with the antenna dependent on whether the antenna receives a particular signal associated with the RFID device. When the antenna receives the particular signal associated with the RFID device, the RFID device causes the switch to close and connect the sensor in the circuit with the antenna to enable the measurement generated by the sensor to be directed to and transmitted by the antenna.

0) US2005188647A – MIXED METAL CLOSURE ASSEMBLY AND METHOD

89) Family number: 32198242 (US2005188647A) © PatBase

Title: MIXED METAL CLOSURE ASSEMBLY AND METHOD

Priority: US20040548358P 20040227 US20050066614 20050225 US20050067579 20050225 US20050067613 20050225 WO2005US06260 20050225 US20050067607 20050225

Family:

Publication number	Publication date	Application number	Application date
DE112005000407 B4	20100805	DE200511000407T	20050225
DE112005000407 T5	20070301	DE200511000407	20050225
US2005188647 AA	20050901	US20050067613	20050225
US2005189787 AA	20050901	US20050067579	20050225
US2005189790 AA	20050901	US20050067607	20050225
US2005189791 AA	20050901	US20050066614	20050225
US7159931 BB	20070109	US20050067579	20050225
US7310878 BB	20071225	US20050066614	20050225
US7766414 BB	20100803	US20050067613	20050225
WO05084247 A2	20050915	WO2005US06260	20050225
WO05084247 A3	20090514	WO2005US06260	20050225

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std)**:** GM GLOBAL TECHNOLOGY OPERATION ; GM GLOBAL TECH OPERATIONS INC ; SCHROTH JAMES G ; GEN MOTORS CORP

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS INC ; UNITED STATES DEPARTMENT OF TREASURY ; UAW RETIREE MEDICAL BENEFITS TRUST ; LYJAK JACOB ; WILMINGTON TRUST CO ; CHERNOFF ADRIAN B ; CITICORP USA INC ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED P ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED PARTIES AS ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED PARTIES AS ; GENERAL MOTORS CORP ; GENERAL MOTORS CORP N D GES D STAATES DELAWARE ; KOSHOREK STEPHEN R ; KLEBER RICHARD M ; KONOPNICKI MARK G ; KIM CHONGMIN ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; KRAJEWSKI PAUL E

Inventor(s):(std)**:** CHERNOFF ADRIAN B ; KIM CHONGNIM ; KLEBER RICHARD M ; KONOPNICKI MARK G ; KOSHOREK STEPHEN R ; LYJAK JACOB ; SCHROTH JAMES G ; KRAJEWSKI PAUL E ; KIM CHONGMIN

Inventor(s): CHERNOFF ADRIAN ; SCHROTH JAMES ; KRAJEWSKI PAUL ; KOSHOREK STEPHEN ; KONOPNICKI MARK ; KLEBER RICHARD

Agent(s): KATHRYN A MARRA GENERAL MOTORS CORP; KATHRYN A; QUINN LAW GROUP PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B21D47/00 B21D53/88 B21K23/00 B23P17/00 B23P6/00 B60J5/00 B60J5/04 B60J7/00 B62D25/00 B62D25/02 B62D25/06 B62D25/10 B62D25/20 E04B1/00 E04C2/34 E04C3/30 E04G21/00 E04G23/00 (Advanced/Invention); B21D47/00 B21D53/00 B21K23/00 B23P17/00 B23P6/00 B60J5/04 B60J7/00 B62D25/00 B62D25/06 B62D25/20 E04B1/00 E04C2/34 E04C3/30 E04G21/00 E04G23/00 (Core/Invention)

International class (IPC 1–7): B62D25/02 B62D25/06 B62D25/20 E04B1/00 E04C2/34 E04G21/00 E04G23/00

CPC: B60J5/0405 B60J5/0426 B60J5/0431 B60J5/045 B60J5/0451 B60J5/0463 B60J5/0483 B62D25/02 B62D25/04 B62D25/081 B62D29/008 B62D25/06 B62D25/20 B62D25/2027 B62D25/2036 Y10T29/49616 Y10T29/49618 Y10T29/49622 Y10T29/49805

European class: B60J5/04B4 B60J5/04E2B12 B60J5/04E2B3 B60J5/04E3 B60J5/04E4 B60J5/04F B60J5/04J3 B62D25/02 B62D25/04 B62D25/08B B62D25/20 B62D25/20A2 B62D25/20A3 B62D29/00C

US class: 224/321 29/421.1 29/897 29/897.1 29/897.2 296/146.5 296/146.6 296/187.01 296/187.03 296/187.12 296/193.03 296/193.05 296/193.050 296/193.07 296/193.070P 296/210 52/741.13 52/741.130P

Classification Explorer

Cited documents: US7363750 BB, US7125067 BB, US7032959 BB, US7032958 BB, US7011361 BB, US6969107 BB, US6942281 BB, US6910732 BB, US6896319 BA, US6825442 BB, US6825442 BA, US6817656 BB, US6805400 BB, US6805397 BA, US6793275 BA, US6694790 BB, US6694790 BA, US6675621 BB, US6675621 BA, US6604781 BB, US6550847 BB, US6550847 BA, US6550124 BB, US6547895 BB, US6508035 BA, US6485089 BB, US6450396 BA, US6423894 BA, US6357819 BA, US6309011 BA, US6308999 BA, US6305740 BA, US6299244 BA, US6296301 BA, US6276477 BA, US6253588 BA, US6237990 BA, US6206458 BA, US6196622 BA, US6170906 BA, US6126219 A, US6073991 A, US6050049 A, US5974847 A, US5948185 A, US5934745 A, US5924760 A, US5921618 A, US5904002 A, US5860694 A, US5806919 A, US5787585 A, US5785378 A, US5580121 A, US5549229 A, US5536060 A, US5480208 A, US5454499 A, US5398453 A, US5358300 A, US5259660 A, US5129700 A, US4887862 A, US4875733 A, US4803108 A, US4433867 A, US4428599 A, US4382626 A, US4234225 A, US3596979 A, US3591231 A, US3054636 A, US2882588 A, US2710222 A, US2637592 A, US2230448 A, US2216670 A, US2190551 A, US2005124730 AA, US2004049989 AA, US2003101656 AA, US2002166222 AA, US2002108229 AA, DE19754248 A1, DE10261565 A1, DE10254084 A1, DE10137028 A1,

Forward Citations: WO16033078, WO15107272, WO14018511, WO13075996, WO09117250, US9555835, US9505443, US9452786, US9425731, US9308577, US9221233, US9166521, US9126470, US9085327, US9056633, US8991905, US8967703, US8936164, US8820610, US8740290, US8714636, US8668250, US8517459, US8505258, US8496288, US8491048, US8438893, US8398149, US8377566, US8282154, US8152223, US8114524, US7959217, US7959212, US7717277, US7677652, US7614687, US7547063, US7530624, US7500714, US7416105, US7243985, US7237832, US7213874, US7195306, US7152914, US6988763, US2017096171, US2016107510, US2015239504, US2015174634, US2014319877, US2014248510, US2014232141, US2014125087, US2013214558, US2012299334, US2012202089, US2012049582, US2012038187, US2011133518, US2011027607, US2010327630, US2010314911, US2010270830, US2010199561, US2010187865, US2010089977, US2010045066, US2010038928, US2009250967, US2009174229, US2009096199, US2009068536, US2008315629, US2008238151, US2008111398, US2008100258, US2008079201, US2007228777, US2007205166, US2006249560, US2006232105, US2006208537, US2006202518, US2006066135, US2005244666, US2005151363, US2005046233, GB2488000, GB2475973, GB2475973, GB2445226, GB2445226, GB2439535, GB2439535, FR3016328, FR2995322, EP2448515, EP2448515, EP2090668, DE102011120519, DE102011118182, DE102009030349, DE102007026523, CN103906676, CN103538635, CN103538635, CN103079936, CN103079936, CN102741110, CN102632928, CN102431595, CN102107682, CN102107682, CN101786470, AU2006200481,

Abstract:
Source: US2005188647A The production of lightweight closure assemblies with a selection of materials optimized to have sufficient formability for each component of the closure assembly, while providing the necessary performance standards at a lighter weight. A mixed metal vehicle closure assembly with an inner panel and an outer panel operatively connected to one another such that they define a cavity therebetween. The closure assembly includes a unitary reinforcement panel attached to the inner and outer panels and inside the cavity therebetween. At least one of the inner, outer and unitary reinforcement panels is composed of a first type of sheet metal and at least one other of the remaining inner, outer or unitary reinforcement panel is composed of a second type of sheet metal.

0) US2006043712A – COLLISION AIR BAG AND FLOTATION SYSTEM

90) Family number: 32658889 (US2006043712A) © PatBase

Title: COLLISION AIR BAG AND FLOTATION SYSTEM

Priority: US20040603982P 20040824 US20050209141 20050822 US20070820127 20070618

Family:

Publication number	Publication date	Application number	Application date
US2006043712 AA	20060302	US20050209141	20050822
US2008309060 AA	20081218	US20070820127	20070618
US7232001 BB	20070619	US20050209141	20050822
US7882921 BB	20110208	US20070820127	20070618

Probable Assignee: HAKKI A HAMID

Assignee(s):(std)**:** HAKKI A HAMID ; HAKKI SAM

Inventor(s):(std)**:** HAKKI A HAMID ; HAKKI SAM

Agent(s): ROBERT F FRIJOUF ESQUIRE FRIJOUF RUST AND PYLE PA; ROBERT F FRIJOUF FRIJOUF RUST AND PYLE PA; FRIJOUF RUST AND PYLE PA

International class (IPC 8–9): B60J11/04 B60K28/00 B60R21/16 B62D49/08 F16F13/10 G06G7/78 (Advanced/Invention); B60J11/00 B60R21/16 B62D49/00 F16F13/04 G06G7/00 (Core/Invention)

CPC: B60R19/205 B60R21/0134 B60R21/239 B60R21/36 B60R2021/0016 B60R2021/0088 B60R2021/0093 B60R2021/138 B60R2021/23332

European class: B60R19/20C B60R21/0134 B60R21/36 L60R21/00A7 L60R21/00T7 L60R21/00T9 L60R21/13T L60R21/233H2 L60R21/239

US class: 180/271 248/685 248/685S 280/735 280/735P 280/755 280/755S 280/770 280/770P 701/301 701/301S

Classification Explorer

Cited documents: US6767030 BB, US6742804 BB, US6739619 BB, US6736455 BA, US6733032 BB, US6733022 BB, US6722694 BA, US6722691 BA, US6719323 BB, US6715790 BB, US6709006 BB, US6702321 BB, US6696933 BB, US6695346 BA, US6692019 BB, US6685219 BA, US6685215 BB, US6679521 BB, US6676147 BB, US6672616 BB, US6672339 BB, US6669230 BA, US6655713 BB, US6648368 BB, US6634669 BB, US6632388 BA, US6631921 BA, US6626459 BB, US6612610 BA, US6601614 BA, US6598901 BB, US6585290 BB, US6578866 BB, US6568706 BB, US6562161 BA, US6561539 BA, US6557888 BA, US6554313 BB, US6547279 BA, US6547275 BB, US6547274 BB, US6543803 BA, US6533318 BB, US6527886 BA, US6523855 BB, US6520538 BB, US6520532 BB, US6512308 BB, US6511081 BB, US6502856 BA, US6497774 BB, US6497302 BB, US6497183 BB, US6494484 BB, US6491320 BA, US6481743 BA, US6478329 BA, US6474686 BA, US6474679 BB, US6473948 BA, US6471238 BB, US6468369 BA, US6467563 BA, US6464249 BA, US6460884 BA, US6460879 BB, US6457741 BB, US6457739 BA, US6444596 BA, US6439605 BB, US6435549 BA, US6425601 BA, US6416599 BA, US6412815 BA, US6408237 BA, US6394491 BB, US6394486 BA, US6386577 BA, US6382662 BA, US6382660 BA, US6378898 BA, US6378896 BA, US6364354 BA, US6364346 BA, US6361072 BA, US6357786 BA, US6355123 BA, US6345841 BB, US6341797 BA, US6340175 BA, US6340171 BA, US6338499 BB, US6334245 BB, US6327759 BA, US6325412 BA, US6305708 BB, US6302431 BA, US6299196 BA, US6286863 BA, US6283507 BA, US6276717 BA, US6273464 BB, US6260878 BA, US6254130 BA, US6247724 BA, US6245695 BA, US6244624 BA, US6234518 BA, US6234517 BA, US6231069 BA, US6227325 BA, US6224101 BA, US6209911 BA, US6206417 BA, US6206408 BA, US6199901 BA, US6193271 BA, US6186714 BA, US6186543 BA, US6180204 BA, US6180204 B1, US6175794 BA, US6175794 B1, US6170865 BA, US6170865 B1, US6168201 BA, US6168201 B1, US6168191 BA, US6168191 B1, US6155600 A, US6155593 A, US6152480 A, US6142520 A, US6142508 A, US6134806 A, US6129382 A, US6129377 A, US6127564 A, US6126197 A, US6126192 A, US6120058 A, US6113141 A, US6113133 A, US6106002 A, US6095602 A, US6095557 A, US6074003 A, US6065771 A, US6062596 A, US6062594 A, US6056336 A, US6053531 A, US6050600 A, US6050596 A, US6045151 A, US6039342 A, US6029996 A, US6027138 A, US6019387 A, US6017056 A, US6012735 A, US6010149 A, US6003938 A, US5997032 A, US5996721 A, US5988674 A, US5971427 A, US5967545 A, US5964478 A, US5961142 A, US5951043 A, US5951041 A, US5947511 A, US5945359 A,

US5944344 A, US5944341 A, US5938236 A, US5934701 A, US5931498 A, US5921287 A, US5918899 A, US5916687 A, US5911434 A, US5909895 A, US5899485 A, US5898126 A, US5895092 A, US5893579 A, US5890736 A, US5877677 A, US5873598 A, US5871233 A, US5871231 A, US5865464 A, US5857696 A, US5851023 A, US5848803 A, US5845932 A, US5842718 A, US5833262 A, US5829778 A, US5829777 A, US5827996 A, US5813694 A, US5806888 A, US5646613 A,

Forward Citations: WO15090582, WO09054844, US9789969, US9688411, US9574858, US9511741, US9493250, US9487301, US9452666, US9424607, US9421926, US9381882, US9377531, US9297603, US9260192, US9156420, US9139149, US9045222, US9027696, US8887639, US8870115, US8869927, US8801035, US8794408, US8764062, US8682534, US8662237, US8588996, US8505966, US8474753, US8447474, US8442755, US8434718, US8418957, US8360470, US8348192, US8342570, US8172027, US8136835, US8117966, US7954752, US7912607, US7845455, US7828106, US7806221, US7783403, US7753159, US7588267, US7523956, US7359782, US2016355156, US2016200274, US2016167793, US2015353047, US2015177378, US2015158446, US2015088334, US2015008065, US2015008064, US2014097603, US2013147174, US2013146381, US2013124050, US2013037358, US2013032665, US2012101666, US2012049491, US2011226898, US2011209522, US2011204181, US2011193329, US2011049295, US2011031055, US2011011973, US2010230941, US2010206983, US2010082206, US2010059972, US2010057305, US2010052294, US2010044507, US2009224520, US2009031686, US2008224458, US2008185825, US2008129025, US2008040004, US2007228748, US2006192367, US2006175807, US2006169517, US2005278098, ITCL20130009, GB814786, GB2515894, EP3187381, EP2995509, EP2969770, EP2894067, EP2439113, DE102012006534, DE102011015914, CN105829169, CN105644334, CN105346494, CN104898655, CN103723109, CN103228535, CN103144591, CN103072538,

Abstract:
Source: US2006043712A A pre−impact inflation air bag system for a vehicle having a preselected decreasing distance between the vehicle and an object is disclosed. The system comprises a plurality of nested inflatable air bags. A plurality of inflators are provided for inflating the plurality of nested inflatable air bags, respectively. A collision sensor produces a collision sensor output upon detecting the object with the preselected decreasing distance between the vehicle and the object. A controller receives the collision sensor output for simultaneously inflating each of the plurality of nested inflatable air bags between vehicle and an object. A plurality of pressure relief members are connected to the plurality of nested inflatable air bags for sequentially deflating the plurality of nested inflatable air bags upon sequential impact of the plurality of nested inflatable air bags with the object.

0) US2007271849A – ADJUSTING SYSTEM FOR A MOTOR VEHICLE DOOR

91) Family number: 33093767 (US2007271849A) © PatBase

Title: ADJUSTING SYSTEM FOR A MOTOR VEHICLE DOOR

Priority: DE200510001776 20050114 DE200510025087 20050526 DE200520000537U 20050114 DE200510025088 20050526 DE200520020927U 20051229 WO2005DE002337 20051229 WO2005DE002338 20051229 WO2005DE02338 20051229

Family:

Publication number	Publication date	Application number	Application date
DE102005025087 A1	20060720	DE200510025087	20050526
DE102005025088 A1	20060720	DE200510025088	20050526
DE202005000537 U1	20060524	DE200520000537U	20050114
DE202005020927 U1	20061026	DE200520020927U	20051229
DE202005021667 U1	20090312	DE200520021667U	20051229
DE502005006830 D1	20090423	DE200550006830T	20051229
EP1778942 A1	20070502	EP20050850203	20051229
EP1778942 B1	20090311	EP20050850203	20051229
EP1778943 A1	20070502	EP20050850202	20051229
JP2008527215 T2	20080724	JP20070550667T	20051229
KR20070093959 A	20070919	KR20077007062	20070328
US2007271849 AA	20071129	US20050667257	20051229
US2007296245 AA	20071227	US20050667391	20051229
US7877932 BB	20110201	US20050667257	20051229
WO06074631 A1	20060720	WO2005DE02337	20051229
WO06074632 A1	20060720	WO2005DE02338	20051229

Probable Assignee: BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG

Assignee(s):(std)**:** KRIESE OLAF ; CRUZ PATRICIA ; DOHLES HILMAR ; BUECKER ROLF ; SCHREIBER RONNY ; STENZEL MANFRED ; KRUEGER HARALD ; KRUGER HARALD ; CRUZ PATRICICA ; BUCKER ROLF ; BROSE FAHRZEUGTEILE

Assignee(s): BROSE FAHRZEUGTEILE GMBH ; BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG COBURG ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCHAFT ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCHAFT COBURG

Inventor(s):(std)**:** BUCKER ROLF ; BUECKER ROLF ; CRUZ PATRICIA ; CRUZ PATRICICA ; DOHLES HILMAR ; KRIESE OLAF ; KRUEGER HARALD ; KRUGER HARALD ; SCHREIBER RONNY ; STENZEL MANFRED

Agent(s): BAUMGAERTEL GUNNAR ET AL; NODA MASASHI; SUGIMOTO SHUJI; TSUTSUMI TAKEO; CHRISTIE PARKER AND HALE LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J1/17 B60J5/00 B60J5/04 B60J5/06 E05B65/12 E05B65/20 E05F11/38 E05F11/42 E05F11/48 E05F15/14 E05F15/16 (Advanced/Invention);
B60J5/04 E05B65/12 E05F11/48 E05F15/16 (Advanced/Non–invention);
B60J1/17 B60J5/00 B60J5/04 B60J5/06 E05B65/12 E05B65/20 E05F11/38 E05F15/14 E05F15/16 (Core/Invention);
E05F11/38 E05F15/16 (Core/Non–invention)

CPC: B60J5/06 E05B83/40 E05B79/04 E05F11/405 E05B79/20 E05F15/689 E05F15/646 B60J5/0416 E05B81/25 E05B81/13 E05Y2201/22 E05Y2201/244 E05Y2201/434 E05Y2201/726 E05Y2600/46 E05Y2900/531 B60J1/17 E05F11/423 E05F11/483 E05F11/486 E05F11/488 E05Y2600/626 E05Y2800/205 E05Y2800/696 E05Y2900/55

Y10T70/5889

European class: B60J1/17 B60J5/04D4 B60J5/06 E05B79/04 E05B81/25 E05B83/36 E05F11/48B2 E05F11/48B2F E05F15/14F2 E05F15/16C P05B53/00D2 P05B65/08 P05B81/13 P05F11/40B P05F11/42B P05F11/48B2D P05F11/48B2F P05F15/16C P05Y201/22 P05Y201/244 P05Y201/434 P05Y201/726 P05Y600/46 P05Y600/626 P05Y800/205 P05Y800/23 P05Y800/696 P05Y900/531 P05Y900/550

US class: 296/155 296/155P 49/348 49/348P 49/349 49/352 49/360 49/360S 49/502 49/503 70/237 70/237S

Classification Explorer

Cited documents: WO03046321 A1, WO0107277 A1, US7490438 BA, US7347026 BA, US7228610 BB, US7111893 BB, US7100326 BB, US6931791 BA, US6766618 BB, US6640500 BA, US6546674 BA, US6477806 BA, US6438899 BA, US6397524 BA, US6354652 BA, US6321488 BA, US6233875 BA, US6192632 BA, US6185872 BA, US6152519 A, US6134840 A, US6076882 A, US5964063 A, US5960588 A, US5904002 A, US5902004 A, US5855096 A, US5737875 A, US5581952 A, US5555677 A, US5505024 A, US5233789 A, US5226259 A, US5095659 A, US5062240 A, US5050350 A, US5050347 A, US4934099 A, US4905412 A, US4831710 A, US4381625 A, US2009145035 AA, US2008276541 AA, US2007271849 AA, US2007251149 AA, US2007056219 AA, US2005115155 AA, US2005046230 AA, US2004128917 AA, US2003159357 AA, JP9193653 A2, JP9032412 A2, JP2004197442 A2, JP2002522678 T2, DE69300629 T2, DE29808833 U1, DE20218679 U1, DE20218679, DE19806762 A1, DE19802478 A1, DE19701378 A1, DE19526451 C1, DE10057352 A1,

Forward Citations: US9731581, US9677312, US9169683, US8935886, US8893437, US8819998, US8776438, US8650800, US8326959, US7877932, US7810865, US7766401, US7690155, US2015191953, US2014208656, US2014165471, US2014102007, US2013283697, US2012036780, US2011072726, US2011060949, US2009265993, US2008289259, KR101220034, EP2611635, DE202007004548, DE202007003226, DE102012211768, DE102012211768, DE102008063646, CN103963615, CN102348564, CN102348564,

Abstract:
Source: US2007271849A An adjusting system for a motor vehicle door is provided. The adjusting system comprising a window winder for adjusting a window, at least one guide area of the window winder for guiding the window along a direction of adjustment, a door lock and a lock support. The one guide area of the window winder and the lock support being fixedly connected to one another, such that the guide area and the lock support form a structural unit. The guide area which is combined with the lock support into a structural unit comprising at least one overlap area for a lateral window edge of the window to be adjusted and a further guide area of the window winder is provided, which is extended in the direction of adjustment of the window, and is positively engaged with a carrier being forcibly guided along the direction of adjustment of the window to be adjusted.

0) US2006123932A – TESTING DEVICE FOR EVALUATING PERFORMANCE OF CL...

92) Family number: 33074484 (US2006123932A) © PatBase

Title: TESTING DEVICE FOR EVALUATING PERFORMANCE OF CLOSURE OF A VEHICLE DOOR AND TESTING METHOD

Priority: JP20040358317 20041210

Family:

Publication number	Publication date	Application number	Application date
JP2006160190 A2	20060622	JP20040358317	20041210
JP4100396 B2	20080611	JP20040358317	20041210
US2006123932 AA	20060615	US20050289549	20051130
US7490525 BB	20090217	US20050289549	20051130

Probable Assignee: NISSAN MOTOR CO LTD

Assignee(s):(std)**:** NISSAN MOTOR

Assignee(s): NISSAN MOTOR CO ; NISSAN MOTOR CO LTD

Inventor(s):(std)**:** TANAKA TSUTOMU ; YAMADA MASAHIRO

Agent(s): FOLEY AND LARDNER LLP, SUITE 500; FOLEY AND LARDNER LLP SUITE 500; FOLEY AND LARDNER LLP

International class(IPC 8–9)**:** B60J5/06 B62D65/06 G01M17/00 G01M17/007 G01M19/00 G01M99/00 G01P15/08 G01P7/00 (Advanced/Invention)

CPC: G01M17/007

European class: G01M17/007

US class: 702/182 73/865.3 73/865.300 73/865.9 73/865.900 738/653

Classification Explorer

Cited documents: US6407660 BA, US6062079 A, US4827415 A, US2005088135 AA, US2004267425 AA, US2004099069 AA, JP2005059724 A2, JP2004058990 A2, JP2001354177 A2,

Forward Citations: US2016266013, US2009293614, CN104180996, CN102221442, CN102147328,

Abstract:
Source: US2006123932A A testing device for evaluating performance of closure of a vehicle door has a speed calculating part for calculating a speed of the door during the motion of the door relative to the main body of a vehicle, an analyzing part for analyzing behavior of the door by processing the speed changing in consequence of the closing motion of the door, and a judging part for judging the state of closure of the door based on the result of analysis obtained by the analyzing part.

93) Family number: 33103367 (US2008012362A) © PatBase

Title: EASILY REMOVABLE EXTERNAL PROTECTION SYSTEM FOR VEHICLES

Priority: US20040640765P 20041230 US20050323299 20051230 US20050658971P 20050304 US20050713503P 20050831

Family:

Publication number	Publication date	Application number	Application date
US2008012362 AA	20080117	US20050323299	20051230
US7338112 BB	20080304	US20050323299	20051230
WO06072096 A2	20060706	WO2005US47674	20051230
WO06072096 A3	20061130	WO2005US47674	20051230

Probable Assignee: EXOCAGE SYSTEMS INC

Assignee(s):(std)**:** COWLES JONATHAN D ; DOTINGA WILLIAM J ; EXOCAGE SYSTEMS INC ; GILLILAND IAN D ; LILA INC DBA PATRONUS DESIGN AMP AMP ; LILA INC DBA PATRONUS DESIGN AND

Assignee(s): LILA INC DBA PATRONUS DESIGN AND DEVELOPMENT ; LILA INC

Inventor(s):(std)**:** COWLES JONATHAN D ; DOTINGA WILLIAM J ; GILLILAND IAN D

Inventor(s): COWLES JONATHAN ; GILLILAND IAN ; DOTINGA WILLIAM

Agent(s): TODD N HATHAWAY; HATHAWAY TODD N; TODD N

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60J7/00 B60R19/56 B60R21/11 B60R99/00 B62D33/00 (Advanced/Invention); B60J7/00 B60R19/00 B60R99/00 B62D33/00 (Core/Invention)

CPC: B60J11/00

European class: B60J11/00

US class: 280/756 293/102 296/1.04 296/10.4 296/190.03 296/190.11

Classification Explorer

Cited documents: USD350724 S1, USD262790 S1, US7131686 BA, US7097237 BB, US7032958 BB, US6908107 BB, US6890036 BB, US6371767 BA, US6065799 A, US5931524 A, US5746362 A, US5680976 A, US5094313 A, US5028071 A, US4879543 A, US4798399 A, US4601487 A, US4428599 A, US4392660 A, US4065041 A, US3868141 A, US3704031 A, US3659887 A, US3596962 A, US3552514 A, US2005258626 AA, US2003030302 AA, US1753907 A,

Forward Citations: WO10022141, US9493134, US9463745, US9187128, US9145092, US7717492, US2014167399, US2010045074,

Abstract:
Source: US2008012362A Systems and methods for mounting an easily removable, external protective system on a vehicle such as an internal combustion vehicle such as a car, truck, SUV, etc. One function of the system is to allow the occupants to enter and exit the vehicle without removing the system. Certain embodiments of the invention will be discussed and illustrated principally as it applies to Land Rovers' Discovery SUV. However it can be applied to any of a variety of vehicles, or even other mobile units such as camper shells. The invention can be advantageous, for example, as it provides protection for the body of the vehicle from many impacts where it would normally be vulnerable. The system comprises removable external tubing attached to fixed mounting points and can be comprised of several mounting systems (see diagrams for specific construction)

0) DE102005011478B3 – WATER OUTFLOW FROM A VEHICLE ROOF, ESPECIALLY A...

94) Family number: 33229335 (DE102005011478B3) © PatBase

Title: WATER OUTFLOW FROM A VEHICLE ROOF, ESPECIALLY A SLIDING ROOF, HAS AN OUTFLOW TUBE LOCKED IN A SEALED FIT AT ONE OPENING IN THE PERFORATED WATER COLLECTION ZONE

Priority: DE200510011478 20050312

Family:

Publication number	Publication date	Application number	Application date
DE102005011478 B3	20060817	DE200510011478	20050312

Probable Assignee: DAIMLER CHRYSLER AG

Assignee(s):(std)**:** DAIMLER CHRYSLER AG

Assignee(s): DAIMLERCHRYSLER AG

Inventor(s):(std)**:** KLOPFER SEBASTIAN ; DEMMER ACHIM

International class (IPC 8–9): B60J7/04 B62D25/07 (Advanced/Invention)

CPC: B60J7/00 B60J7/0084

European class: B60J7/00 B60J7/00G

Classification Explorer

Cited documents: DE4113670 C1, DE19808898 A1, DE10260792 A1, DE10010346 C2,

Forward Citations: WO10026326, FR3032510, FR2935674, EP2982543, DE102014222692,

Abstract:
The water outflow for a vehicle roof, and especially a sliding roof, has a water collection zone (1) with a perforated section (A) and a downstream plastics outflow tube (5). The tube opening is in a sealed fit against the collector by a connection (7) against a fastener (8), with a rotating lock action in one of the openings (3).

0) US2006214465A – REMOTELY CONTROLLED AUTOMATIC VEHICLE COVER

95) Family number: 33396247 (US2006214465A) © PatBase

Title: REMOTELY CONTROLLED AUTOMATIC VEHICLE COVER

Priority: CA20052502339 20050324

Family:

Publication number	Publication date	Application number	Application date
CA2502339 AA	20060924	CA20052502339	20050324
US2006214465 AA	20060928	US20050151558	20050609

Probable Assignee: CHAU VINCENT

Assignee(s):(std)**:** CHAU VINCENT

Inventor(s):(std)**:** CHAU VINCENT

Agent(s): NELLIGAN O BRIEN PAYNE LLP; INTELLECTUAL PROPERTY DEPARTMENT DEWITT ROSS AND STEVENS SC

International class (IPC 8–9)**:** B60J11/00 B60J7/00 B60J7/20 (Advanced/Invention); B60J11/00 B60J7/00 (Core/Invention)

CPC: B60J11/00

European class: B60J11/00

US class: 296/136.1

Classification Explorer

Forward Citations: WO08062284, WO08062284, US9714535, US9352642, US8070211, US2015233167, US2015059988, US2009140541,

Abstract:
Source: US2006214465A The present invention relates to an apparatus for remotely controlling a vehicle cover that extends and retracts the cover automatically. The apparatus for remotely controlling a vehicle cover comprises, a plurality of covers for covering a vehicle, a plurality of wires for guiding the cover to extend and retract from and to a housing, a plurality of reel tables placed on the vehicle to route and secure the wires and the cover; and a control module comprising. The control module comprises at least one motor for extending and retracting the covers by controlling the wires; a means for receiving wireless control signals from a user operated remote control means; and a means for interpreting and implementing the signals.

0) EP1721772A2 – SAFETY SYSTEM FOR THE AUTOMATIC OPENING/CLOSING...

96) Family number: 33616487 (EP1721772A2) © PatBase

Title: SAFETY SYSTEM FOR THE AUTOMATIC OPENING/CLOSING OF A VEHICLE HOOD

Priority: IT2005MO00115 20050512

Family:

Publication number	Publication date	Application number	Application date
EP1721772 A2	20061115	EP20060010244	20060510
EP1721772 A3	20071226	EP20060010244	20060510
ITMO20050115 A1	20061113	IT2005MO00115	20050512

Probable Assignee: META SYSTEM SPA

Assignee(s):(std)**:** META SYSTEM SPA

Assignee(s): META SYSTEM S P A

Inventor(s):(std)**:** SIMONAZZI GIUSEPPE

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

International class (IPC 8–9)**:** B60J7/057 B60J7/12 B60J7/20 E05F15/20 (Advanced/Invention); B60J7/00 B60J7/04 B60J7/08 E05F15/20 (Core/Invention)

CPC: E05Y2900/508 B60J7/0573 E05Y2900/542 E05F15/43 E05F15/73 E05F2015/433 E05F2015/434

European class: B60J7/057B E05F15/00B1 E05F15/20D P05Y900/542

Classification Explorer

Cited documents: US5864214 A, EP0916538 A2, DE19507541 C1, DE10232413 A1,

Forward Citations: WO09012740,

Abstract:
Source: EP1721772A2 The safety system for automatically opening and closing a vehicle hood, comprises sensor means (2) associated with a vehicle featuring a hood (8) that opens and closes automatically and which are able to detect the presence of an obstacle close to or along the opening/closing trajectory of the hood (8) and which are associated with a control/piloting unit (3) for the operating means (4) of the hood (8).

0) US2010084887A – UNIT SUPPORT FOR A MOTOR VEHICLE DOOR

97) Family number: 34108126 (US2010084887A) © PatBase

Title: UNIT SUPPORT FOR A MOTOR VEHICLE DOOR

Priority: DE200510033115 20050711 DE200610033115 20050711 WO2006DE001217 20060710

Family:

Publication number	Publication date	Application number	Application date
DE102005033115 A1	20070125	DE200510033115	20050711
DE502006007970 D1	20101111	DE200650007970T	20060710
EP1904323 A1	20080402	EP20060775701	20060710
EP1904323 B1	20100929	EP20060775701	20060710
KR101209499 B1	20121207	KR20087002972	20060710
KR20080031052 A	20080407	KR20087002972	20060710
US2010084887 AA	20100408	US20060988671	20060710
US8109039 BB	20120207	US20060988671	20060710
WO07006296 A1	20070118	WO2006DE01217	20060710

Probable Assignee: BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG

Assignee(s):(std)**:** BROSE FAHRZEUGTEILE ; KRUEGER HARALD ; KRIESE OLAF ; SCHLECHTRIEMEN MARTIN ; ORIENT BIO INC

Assignee(s): ORIENT BIO ; BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG ; BROSE FAHRZEUGTEILE GMBH AND CO KG COBURG ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCH ; BROSE FAHRZEUGTEILE GMBH AND CO KOMMANDITGESELLSCHAFT

Inventor(s):(std)**:** SCHLECHTRIEMEN MARTIN ; KRUEGER HARALD ; KRIESE OLAF

Agent(s): BAUMGAERTEL GUNNAR ET AL; BAUMGAERTEL GUNNAR; CHRISTIE PARKER AND HALE LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** B60J5/00 B60J5/04 B62D25/00 E05F15/08 (Advanced/Invention); B60J5/00 B60J5/04 (Advanced/Non–invention); B60J5/00 B60J5/04 B62D25/00 (Core/Invention)

CPC: E05Y2900/55 B60J5/0416 E05F11/382 E05Y2201/654 E05Y2201/668 E05Y2201/684 E05Y2600/60 E05Y2800/29 E05Y2800/33

European class: B60J5/04D4 E05F11/38B P05Y201/654 P05Y201/668 P05Y201/684 P05Y600/60 P05Y800/205 P05Y800/23 P05Y800/29 P05Y800/33 P05Y900/550

US class: 296/146.2 296/146.200P 49/348 49/349 49/352

Classification Explorer

Cited documents: US7882658 BB, US7467494 BB, US6604325 BB, US6477808 BA, US6161337 A, US5694717 A, US5657580 A, US2008098655 AA, US2007214726 AA, US2006283088 AA, US2006179720 AA, US2006174543 AA, US2006174542 AA, US2003140562 AA, EP1132234 A1, EP0855301 A1, EP0561440 A1, DE19944965 A1, DE19937000 A1,

Forward Citations: WO08122394, US9502135, US9424950, US9315159, US9233599, US9021741, US9001959, US2015302935, US2015033632, US2014250790, US2013111816, US2013049133, US2010132261, FR3016555, EP3078519, DE102007016953, DE102006036534, CN103459205,

Abstract:
Source: US2010084887A A unit support for a motor vehicle door includes at least one longitudinally extended guide rail of a motor vehicle window lifter arranged on the unit support, which extends between a first and a second end portion and on which a drive element serving to receive a window pane to be adjusted along an adjusting path of the guide rail defined by guide surfaces is movably guided. A hollow body is integrally formed on

the unit support in the region of at least one end portion of the guide rail. The hollow body extends the guide surfaces of the guide rail serving to guide the drive element, defining the adjusting path and/or a deflection element is provided on the hollow body for deflecting a flexible traction means of the window lifter, in order to increase the length of travel of the motor vehicle window lifter in the direction of extension of the guide rail.

0) US2008036240A – COMPOSITE BODY FOR A VEHICLE

98) Family number: 34492479 (US2008036240A) © PatBase

Title: COMPOSITE BODY FOR A VEHICLE

Priority: CA20062596910 20060920 CA20062688900 20060920 CA20062688924 20060920 US20050738032P 20051121 US20050738032P 20051121 US20070782083 20070724 US20060841498P 20060901 CA20072599560 20070829 EP20070017200 20070903 WO2006CA01534 20060920 US20070847411 20070830 US20090626311 20091125 US20090626330 20091125

Family:

Publication number	Publication date	Application number	Application date
AT465928 E	20100515	AT20060790703T	20060920
CA2596910 AA	20070724	CA20062596910	20060920
CA2596910 C	20100824	CA20062596910	20060920
CA2599560 AA	20080301	CA20072599560	20070829
CA2599560 C	20110412	CA20072599560	20070829
CA2688900 AA	20070524	CA20062688900	20060920
CA2688900 C	20120103	CA20062688900	20060920
CA2688924 AA	20070524	CA20062688924	20060920
CA2688924 C	20121204	CA20062688924	20060920
DE602006014018 D1	20100610	DE200660014018T	20060920
DE602007023519 D1	20120823	DE200760023519T	20070903
EP1942039 A1	20080709	EP20070017200	20070903
EP1942039 B1	20120627	EP20070017200	20070903
EP1954548 A1	20080813	EP20060790703	20060920
EP1954548 A4	20081224	EP20060790703	20060920
EP1954548 B1	20100428	EP20060790703	20060920
US2008036240 AA	20080214	US20070782083	20070724
US2008044630 AA	20080221	US20070847411	20070830
US2010140980 AA	20100610	US20090626311	20091125
US2010148537 AA	20100617	US20090626330	20091125
US7862101 BB	20110104	US20070782083	20070724
US7993719 BB	20110809	US20090626330	20091125
US8066321 BB	20111129	US20070847411	20070830
US8205931 BB	20120626	US20090626311	20091125
WO07056840 A1	20070524	WO2006CA01534	20060920

Probable Assignee: FAROEX LTD

Assignee(s):(std)**:** CHURCH KENNETH S ; FAROEX LTD ; LUSK KEVIN ; LUSK KIM ; STANTON WILLIAM H

Assignee(s): FAROEX LTD GIMLI ; FAROES LTD

Inventor(s):(std)**:** CHURCH KENNETH S ; LUSK KEVIN ; LUSK KIM ; STANTON WILLIAM H

Inventor(s): STANTON WILLIAM H WINNIPEG ; CHURCH KENNETH ; STANTON WILLIAM ; LUSK KEVIN MANITOBA

Agent(s): BATTISON WILLIAMS DUPUIS; ADE AND CO INC; JOSTARNDT HANS DIETER; ADRIAN D

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B29C65/00 B29C70/06 B32B3/00 B32B3/02 B60J7/00 B60R27/00 B60R99/00 B61D17/10 B62D25/00 B62D25/02 B62D25/20 B62D29/04 B62D31/02 (Advanced/Invention); B29C65/00 B32B3/02 B60R99/00 B62D25/00 B62D25/20 B62D29/00 B62D31/00 (Core/Invention)

CPC: B61D17/10 Y10T403/7152 Y10T428/19 B62D31/02 B60R16/0207 B62D27/026 B62D29/043 Y10T428/24612 Y10T428/24653 B62D29/041 B29C70/443 B29C70/865 B29L2031/608 B62D25/087 B62D25/20

European class: B29C70/44A B60R16/02C B61D17/10 B62D25/08D B62D25/20 B62D27/02C B62D29/04A B62D29/04B B62D31/02 L29C70/86A L29L31/60C

US class: 156/285 156/285S 296/178 296/178P 296/191 296/193.05 296/193.06 296/193.07 296/203.01 296/203.010P 296/203.03 296/210 296/29 403/393 428/172 428/172P 428/177 428/177S 428/57 52/588.1

Classification Explorer

Cited documents: WO04000634 A1, WO04000633 A1, WO0000634 A2, US6685254 BB, US6685254 B1, US6375249 BA, US6237989 BA, US6065261 A, US5997075 A, US5938274 A, US5918548 A, US5904972 A, US5876089 A, US5577793 A, US5472290 A, US5433151 A, US5140913 A, US5042395 A, US5041318 A, US4254987 A, US4230361 A, US4059303 A, US3397496 A, EP1495948 A1, EP1115606 A1, EP0622285 A1, EP0439432 A1, EP0063214 A1, DE19806484 A1,

Forward Citations: WO15038656, WO12079693, USD796419, USD796400, USD782947, US9539771, US9533716, US9381962, US9376125, US9145684, US9139303, US9132859, US9114730, US8966744, US8894132, US8894071, US8888164, US8876148, US8850775, US8807627, US8690226, US8342598, US8215707, US8109551, US2017240215, US2015231990, US2015069782, US2014238262, US2014134361, US2013313863, US2013291464, US2012235453, US2012161469, US2012126580, US2012091669, US2011309547, US2010327617, US2010308620, US2010101876, US2009230729, US2009195015, US2007132280, US2007057535, US2007006986, KR101347760, KR101347759, JP5705330, JP2014504967, ITBO20110045, EP3109123, EP3081449, EP2769896, EP2327609, EP1897788, DE102012213469, DE102012110425, DE102012012490, CN103949811, CN103949811, CN103707944, CN103707944, CN103261007, CN101961984,

Abstract:
Source: US2008036240A A vehicle primarily a mass transit vehicle is formed primarily of composite materials which define a roof section and a floor section of two fiber reinforced sheets connected by an integral core and two rigid side wall sections each formed from welded steel or optionally bolted aluminum defining a series of window openings in a row along the side wall section in a ladder shape. The separate sections are connected to a front end cap and a rear end cap. Mountings for the seats are defined as well as conduits through the floor and roof for electrical and fluid connections. Releasable joints of adhesive are provided between the metal rails and the edges of the composite panels.

0) US2007134502A – AQUEOUS DISPERSION COATING COMPOSITION HAVING N...

99) Family number: 34552936 (US2007134502A) © PatBase

Title: AQUEOUS DISPERSION COATING COMPOSITION HAVING NOISE AND/OR FRICTION ABATEMENT PROPERTIES

Priority: US20050300511 20051214 WO2006US61828 20061211

Family:

Publication number	Publication date	Application number	Application date
CA2632747 AA	20080609	CA20062632747	20061211
CN101331197 A	20081224	CN200680047428	20061211
EP1960486 A1	20080827	EP20060840178	20061211
JP2009520082 T2	20090521	JP20080545926T	20061211
RU2008128407 A	20100120	RU20080128407	20061211
RU2414499 C2	20110320	RU20080128407	20061211
US2007134502 AA	20070614	US20050300511	20051214
US7368174 BB	20080506	US20050300511	20051214
WO07070771 A1	20070621	WO2006US61828	20061211

Probable Assignee: LORD CORP

Assignee(s):(std)**:** FONDA JAMES B ; LORD CORP

Assignee(s): LORD KORPOREJSHN

Inventor(s):(std)**:** FONDA DZHEJMS B ; FONDA JAMES B

Inventor(s): FONDA JAMES

Agent(s): BLAKE CASSELS AND GRAYDON LLP; MBM INTELLECTUAL PROPERTY LAW LLP; WEBER THOMAS; LORD PATENT AND LEGAL SERVICES CORP; GALINSKI TODD W; TODD W

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B32B27/00 B32B27/40 B32B9/04 B60J10/02 B60R13/06 C08L23/00 C08L75/04 C08L83/04 C09D123/00 C09D123/04 C09D127/00 C09D175/04 C09D175/08 C09D183/04 C09D183/08 C09D5/00 (Advanced/Invention); C08G18/48 C08G77/04 (Advanced/Non–invention); B32B27/00 B32B27/40 B32B9/04 B60J10/02 B60R13/06 C08L23/00 C08L75/00 C08L83/00 C09D123/00 C09D127/00 C09D175/04 C09D175/08 C09D183/04 C09D183/08 C09D5/00 (Core/Invention); C08G18/00 C08G77/00 (Core/Non–invention)

CPC: Y10T428/31551 Y10T428/31569 Y10T428/31587 Y10T428/31663 Y10T428/31909 Y10T428/31917 C08G18/44 C08J2483/00 C08L23/00 C08L75/04 C08L83/04 C08L91/06 C09D175/06 C09D183/04 B60J10/17 B60J10/50 B60J10/80 C08J7/047

European class: B60J10/00C3 B60J10/00K B60J10/08 C08G18/44 C08J7/04L C09D175/06 C09D183/04 M08J483/00 M08L23/00 M08L75/04 M08L83/04 M08L91/06

US class: 428/423.1 428/423.9 428/424.8 428/447 428/447P 428/515 428/517 525/100 525/100S 525/101 525/106 525/453 525/455 525/474 525/474S 525/479 525/479S

Classification Explorer

Cited documents: WO04099327 A1, US6742784 BB, US6682779 BA, US6590027 BB, US6534147 BB, US6406785 BA, US6084034 A, US5844051 A, US5763011 A, US5674567 A, US5525660 A, US5525427 A, US5488092 A, US5447671 A, US5343655 A, US4987204 A, US4945123 A, US4902767 A, US4720518 A, US4572872 A, US4572871 A, US2006222870 AA, US2005215654 AA, US2005085586 AA, US2005003158 AA, US2002160203 AA, US2002064660 AA, JP8225670 A2, JP8045070 A2, JP61225222 A2, JP61155432 A2, JP61155431 A2, JP61138639 A2, JP61138638 A2, JP61138637 A2, JP61138636 A2, JP58071233 A2, JP2002069377 A2, JP2001207106 A2, JP2001039233

A2, JP11172197 A2, EP1325947 A2,

Forward Citations: WO11065433, WO11065432, WO11021354, WO09036151, WO09036151, WO09000320, US9688879, US9637913, US9394462, US9359719, US8975420, US8951933, US8871857, US8842955, US8837886, US8735467, US8703648, US8633292, US8474189, US8124684, US8028800, US7883770, US2015086713, US2011150402, US2011105679, US2011101557, US2010249264, US2009076222, US2007269607, RU2608198, KR101434764, JP5579081, JP2013170231, JP2012031263, JP2011231300, JP2011132509, JP2011042698, EP2586814, EP2586814, EP1911820, CN104152026, CN103072455, CN102990936, CN102666654, CN102549090, CN102549090, CN102504687, CN102504687, CN102407756, CN102407756,

Abstract:
Source: US2007134502A An aqueous dispersion coating for rubber and polymer substrates comprises a blend of a polysiloxane and a curable polyurethane and various additives such as a urethane crosslinking agent, a heat resistant filler, and the like. The aqueous dispersion coating reduces the noise upon contact or movement of the coated substrate with an article and maintains the initial static coefficient of friction therewith over a period of time. A desired end use is as a coating on vehicle weatherstrips such as for doors, trunks, and other enclosing articles.

0) EP1798110B1 – VEHICLE DOOR TRIM WITH AN ITEM STORAGE COMPARTM...

100) Family number: 34573700 (EP1798110B1) © PatBase

Title: Vehicle door trim with an item storage compartment, in particular an umbrella.

Priority: DE200510059728 20051214

Family:

Publication number	Publication date	Application number	Application date
AT396893 E	20080615	AT20060025882T	20061214
DE102005059728 A1	20070628	DE200510059728	20051214
DE502006000838 D1	20080710	DE200650000838T	20061214
EP1798110 A1	20070620	EP20060025882	20061214
EP1798110 B1	20080528	EP20060025882	20061214
ES2306353 T3	20081101	ES20060025882T	20061214

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATION

Assignee(s):(std)**:** GM GLOBAL TECH OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATION

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS INC

Inventor(s):(std)**:** GEYRHOFER MATTIAS ; VERHEE PATRICK

Agent(s): STRAUSS PETER

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

International class (IPC 8–9)**:** B60J5/04 B60N3/00 B60R13/02 B60R13/07 B60R7/04 B60R7/12 (Advanced/Invention); B60J5/04 B60N3/00 B60R13/00 B60R13/02 B60R7/00 B60R7/04 (Core/Invention)

CPC: B60R7/046 B60R7/12

European class: B60R7/04D B60R7/12

Classification Explorer

Cited documents: WO9527634 A2, US2004084922 AA, JP2164634 A2, JP2004114786 A2, JP2002104046 A2, JP2001114024 A2, JP1317844 A2, JP10016651 A2, DE9412533 U, DE3812571 A1, DE20018781 U1, DE10303345 A1, DE10302345 A1, DE10062162 A1,

Forward Citations: USRE46485, US9174586, US8511733, FR2943292,

Abstract:
Source: EP1798110B1 The trim (5) has a storage compartment (10) for storing objects e.g. wet umbrella, and an armrest (7) with a lid (9) on its upper side. The storage compartment is closed using the lid, is vertically arranged and has a base with a liquid discharge opening. A tube or a pipe is connected with the base in the area of the liquid discharge opening for discharging the liquid from the wet umbrella and from the door (1). Length and breadth measurements of the compartment are adjusted with respect to the length and breadth measurements of the object.

0) EP1800921B1 – MODULE FOR A REAR QUARTER LIGHT WINDOW OF A VEH...

101) Family number: 34605428 (EP1800921B1) © PatBase

Title: Module for a rear quarter light window of a vehicle

Priority: EP20060301283 20061221 FR20050013242 20051223

Family:

Publication number	Publication date	Application number	Application date
AT511453 E	20110615	AT20060301283T	20061221
DE602006022263 D1	20110714	DE200660022263T	20061221
EP1800921 A1	20070627	EP20060301283	20061221
EP1800921 B1	20110601	EP20060301283	20061221
FR2895318 A1	20070629	FR20050013242	20051223
FR2895318 B1	20100730	FR20050013242	20051223

Probable Assignee: RENAULT SAS

Assignee(s):(std)**:** RENAULT SA ; RENAULT SAS ; RENAULT SAS SOC PAR ACTIONS SI

Assignee(s): RENAULT SAS SOC PAR ACTIONS SIMPLIFIEE ; RENAULT SAS SOCIETE PAR ACTIONS SIMPLIFIEE ; RENAULT S A S

Inventor(s):(std)**:** HEWAK GREGOR ; VILATTE JEAN RENE

Inventor(s): GREGOR HEWAK ; JEAN RENE VILATTE

Agent(s): RENAULT SAS

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

International class(IPC 8–9)**:** B60J1/16 B60J10/04 B62D65/06 (Advanced/Invention); B60J1/16 B60J10/02 B62D65/00 (Core/Invention)

CPC: B60J1/16 E05F11/535 E05Y2900/55

European class: B60J1/16 E05F11/53B P05Y900/550

Classification Explorer

Cited documents: JP2001071752 A2, FR2856348 A1, FR2818589 A1, FR2739811 A1, EP1452362 A1, EP1234753 A1,

Forward Citations: FR2943953, EP2236335,

Abstract:
The assembly (4) has a frame (24) carrying a quarter glass (12) and a motor (30), where the frame, quarter glass and motor form a single piece. The glass is extended to the rear of a glass of a door when the door glass occupies a top position. The quarter glass comprises a front vertical edge (18) carrying a seal (22) for sealing the contact between the glass of the door and quarter glass. An independent claim is also included for a method of mounting a quarter glass on a vehicle.

0) US2007145786A – MULTI–PANEL SUNROOF SYSTEM

102) Family number: 34609953 (US2007145786A) © PatBase

Title: MULTI–PANEL SUNROOF SYSTEM

Priority: US20050316382 20051222 US20070965882 20071228

Family:

Publication number	Publication date	Application number	Application date
US2007145786 AA	20070628	US20050316382	20051222
US2008164726 AA	20080710	US20070965882	20071228
US7314246 BB	20080101	US20050316382	20051222

Probable Assignee: SPECIALTY VEHICLE ACQUISITION CORP

Assignee(s):(std)**:** DILLUVIO CHRISTOPHER J ; MACNEE ARTHUR L III ; SPECIALTY VEHICLE ACQUISITION

Assignee(s): SPECIALTY VEHICLE ACQUISITION CORP ; ASC INC

Inventor(s):(std)**:** DILLUVIO CHRISTOPHER J ; MACNEE ARTHUR L ; MACNEE ARTHUR L III ; MACNEE III ARTHUR L

Inventor(s): DILLUVIO CHRISTOPHER ; MACNEE ARTHUR LIII ; MACNEE ARTHUR

Agent(s): HARNESS DICKEY AND PIERCE PLC

International class (IPC 8–9): B60J7/04 B60J7/047 B60J7/185 (Advanced/Invention); B60J7/00 B60J7/04 (Core/Invention)

CPC: B60J7/0435 B60J7/047

European class: B60J7/043B B60J7/047

US class: 296/220.01 296/224

Classification Explorer

Cited documents: WO9425301 A1, US7314246 BB, US6460921 BB, US5951100 A, US5941598 A, US5836644 A, US5746475 A, US5516187 A, US5447355 A, US5197779 A, US5154482 A, US5029937 A, US5018783 A, US4995665 A, US4923246 A, US4911496 A, US4893869 A, US4746165 A, US4707022 A, US4650243 A, US4185868 A, US2348579 A, US2005173947 AA, US2004021344 AA, US2002125743 AA, GB573355 A, GB2295801 A1, EP1132238 A2, DE3149977 A1, DE1946161 B2,

Forward Citations: USD636718, USD625680, US9242536, US8777299, US2008164726, ITTO20100624, EP2409867, EP1923247,

Abstract:
Source: US2007145786A A multi–panel sunroof employs at least three movable sunroof panels. In another aspect of the present invention, three sunroof panels are stacked upon each other in one or two different operating positions. A further aspect of the present invention provides for rearward opening movement of a front sunroof panel and forward opening movement of a rear sunroof panel.

0) FR2896819A – DISPOSITIF ELECTRIQUE DE MANOEUVRE D'UNE VITRE ...

103) Family number: 35076462 (FR2896819A) © PatBase

Title: DISPOSITIF ELECTRIQUE DE MANOEUVRE D'UNE VITRE DE VEHICULE AUTOMOBILE GLASS RAISING OR DESCENDING DEVICE FOR E.G. MOTOR VEHICLE DOOR, HAS NOTCHES CO–OPERATING WITH TEETH OF DRIVE PINION FIXED ON AXLE OF MOTOR, SUCH THAT CONTROL OF MOTOR CAUSES LIFTING OR LOWERING OF GLASS BY DISPLACEMENT OF PINION ON RACK

Priority: FR20060050327 20060131

Family:

Publication number	Publication date	Application number	Application date
FR2896819 A1	20070803	FR20060050327	20060131

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std): PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES SA SOCIETE ANONYME ; PEUGEOT CITROEN AUTOMOBILES SOC ANONYME SA

Inventor(s):(std): LE DU PIERRE

Inventor(s): PIERRE LE DU

Agent(s): PSA PEUGEOT CITROEN

International class (IPC 8–9): B60J1/17 E05F15/16 (Advanced/Invention); B60J1/17 E05F15/16 (Core/Invention)

CPC: E05F15/689 E05F11/423 E05Y2900/55

European class: E05F11/42B P05F15/16C P05Y900/550

Classification Explorer

Cited documents: US4991348 A, US4908988 A, FR2550267 A1, DE19843473 A1,

Forward Citations: CN104563720, CN104563720,

Abstract:
Source: FR2896819A Dispositif pour la montee ou la descente d'une vitre (5) a partir ou a l'interieur du caisson d'une porte ou de la paroi d'un vehicule automobile, avec guidage de cette vitre au cours de ses mouvements au moyen de deux glissieres paralleles (7,8) s'etendant dans le sens des deplacements de la vitre, caracterise en ce qu'il comporte une piste de deplacement (9), fixee au caisson (2) de la porte et montee entierement a l'interieur de ce caisson, cette piste comportant une cremaillere longitudinale (13) dont les crans cooperent avec les dents d'un pignon d'entrainement (14) fixe sur l'axe (15) d'un moteur asynchrone (16), porte par la vitre, de telle sorte que la commande de ce moteur provoque selon le cas, le levage ou l'abaissement de la vitre par deplacement du pignon sur la cremaillere de la piste. The device has a displacing groove (8) fixed to a metallic shell (2) of a door (1) and completely mounted inside the shell. The groove includes a longitudinal rack (13) with notches co–operating with teeth of a drive pinion (14) fixed on an axle (15) of an induction motor (16) carried by a glass (5), such that control of the induction motor causes lifting or lowering of the glass by displacement of the drive pinion on the rack, where the motor functions at a voltage less than 12 volts.

0) US2007203727A – EMERGENCY SUPPLIES PRE–POSITIONING AND ACCESS C...

104) Family number: 40797636 (US2007203727A) © PatBase

Title: EMERGENCY SUPPLIES PRE–POSITIONING AND ACCESS CONTROL METHOD

Priority:

US20060279333 20060411 US20060361247 20060224 US20060381265 20060502
US20060381257 20060502 US20060381247 20060502 US20060379929 20060424
US20060381677 20060504 US20060423594 20060612 US20060421694 20060601
US20060420594 20060526 US20060383022 20060512 US20060381277 20060502
US20060394350 20060330 US20060384037 20060317 US20060464764 20060815
US20060462845 20060807 US20060462795 20060807 US20060461624 20060801
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US20060425043 20060619 US20060464788 20060815 US20060464799 20060815
US20060464751 20060815 US20060464775 20060815 US20060465063 20060816
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US20060862718P 20061024 US20060535282 20060926 US20080047130 20080312
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US20060863469P 20061030 US20060863481P 20061030

Family:

Publication number	Publication date	Application number	Application date
US2007203727 AA	20070830	US20060456472	20060710
US2007214729 AA	20070920	US20060535282	20060926
US2007215434 AA	20070920	US20060555896	20061102
US2007217577 AA	20070920	US20060426231	20060623
US2007219420 AA	20070920	US20060462845	20060807
US2007219421 AA	20070920	US20060464751	20060815
US2007219422 AA	20070920	US20060464764	20060815
US2007219423 AA	20070920	US20060464788	20060815
US2007219424 AA	20070920	US20060464799	20060815
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US2007219812 AA	20070920	US20060381265	20060502
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US2007225994 AA	20070927	US20060554452	20061030
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US2007228090 AA	20071004	US20060559278	20061113

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WO08143691 A1	20081127	WO2007US82654	20071026	

Probable Assignee: SOVEREIGN DEED LLC

Assignee(s):(std)**:** BOTOS MATTHEW J ; MOORE BARRETT H ; SEIDEL GREGORY E ; SOVEREIGN DEED LLC

Inventor(s):(std)**:** MOORE BARRETT H ; SEIDEL GREGORY E ; BOTOS MATTHEW J

Inventor(s): MOORE BARRETT

Agent(s): FITCH EVEN TABIN AND FLANNERY; KRATZ RUDY; KRATZ RUDY I; KRUEGER JAMES P; KRATZ RUDY I ET AL; SAMPLES KENNETH H ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A01B71/06 A45F5/00 A47F1/04 A61B17/3213 A61B5/00 B01D46/00 B42D1/00 B60J1/00 B62D53/00 B62D59/04 B63B35/44 B65B3/04 B65G15/00 D02G3/00 E02D29/00 E04B1/00 E04B1/34 E04H1/00 E04H14/00 E04H9/00 F02M37/04 G01C21/20 G01T1/02 G05B19/418 G05B21/00 G05D1/02 G06F15/173 G06F17/30 G06F21/00 G06F9/44 G06F9/46 G06K7/01 G06Q10/00 G06Q30/00 G06Q30/06 G06Q40/00 G06Q50/00 G06Q50/26 G06Q90/00 G06Q99/00 G09B19/00 G21F3/00 H04H1/00 H04H20/59 H04L9/00 H04M11/04 (Advanced/Invention); G06Q90/00 (Advanced/Non–invention); A01B71/00 A45F5/00 A47F1/00 A61B17/32 A61B5/00 B01D46/00 B42D1/00 B60J1/00 B62D53/00 B62D59/00 B63B35/44 B65B3/04 B65G15/00 D02G3/00 E02D29/00 E04B1/00 E04B1/34 E04H1/00 F02M37/04 G01C21/20 G01T1/02 G05B19/418 G05B21/00 G05D1/02 G06F15/16 G06F17/30 G06F21/00 G06F9/44 G06F9/46 G06Q10/00 G06Q30/00 G06Q40/00 G06Q50/00 G06Q99/00 G09B19/00 G21F3/00 H04H1/00 H04L9/00 H04M11/04 (Core/Invention)

CPC: G06Q30/0283 G08B27/008 H04H20/59 H04H60/23 G06Q30/02 G06Q90/00 G06F19/327 G06F19/3493 G06Q20/401 G06Q50/22 G06Q50/00 G06Q30/04 G06Q10/06 G06Q50/163 G06Q50/30 G06Q30/00 G06Q50/10 G06Q30/0214 G06Q30/0217 G06Q30/0226 G06Q30/0227 G06Q30/0231 G06Q30/0233 G07F17/0042 E04H9/08 E04H9/12 F41H5/24 G06Q10/10 A62B31/00 B63C9/02 E04H9/14 A62B99/00 A62B1/02 E04H9/06 H04L63/10 G07C9/00087 B01D46/0023 B01D46/0036 B01D2273/30 A47K11/026 G21F3/00 G06Q30/06 G06Q30/0633 G06Q10/087 A61B50/10 A61B50/13 A61B50/312 G06Q40/08 A45C15/00 G06Q10/08 G06Q50/265 G06Q99/00 G06Q10/00 G06Q10/02 G06Q50/26

European class: A45C15/00 A47K11/02C A61B19/02F A61B19/02P4D A62B1/02 A62B31/00 A62B99/00 B01D46/00D4 B01D46/00F60 B63C9/02 E04H9/06 E04H9/08 E04H9/12 E04H9/14 F41H5/24 G06F19/32G G06Q10/00 G06Q10/02 G06Q10/06 G06Q10/08 G06Q10/08E G06Q10/10 G06Q20/401 G06Q30/00 G06Q30/02 G06Q30/0214 G06Q30/0217 G06Q30/0226 G06Q30/0227 G06Q30/0231 G06Q30/0233 G06Q30/0283 G06Q30/04 G06Q30/06 G06Q40/08 G06Q50/00 G06Q50/10 G06Q50/163 G06Q50/22 G06Q50/26 G06Q50/265 G06Q50/30 G06Q90/00 G06Q99/00 G07C9/00B6D4 G07F17/00D G07F7/00D G08B27/00T G21F3/00 H04H20/59 K61B19/02F2 K62B99/00 L01D273/30 S06F19/34S T04H60/23 T04L29/06S10 T04L63/10 Y04S50/12

US class: 141/10 180/14.1 180/14.100P 198/321 224/101 235/382.5 235/382.500S 250/472.1 250/519.1 345/85P 379/37 379/37P 434/236 434/236S 455/3.01 455/3.010 52/169.6 52/3 52/741.1 52/741.100S 52/745.05 52/745.050P 52/79.1 52/79.100S 600/300 600/300P 701/23 705/1 705/1.1 705/1.100P 705/14.16 705/14.160P 705/14.19 705/14.190S 705/14.27 705/14.270S 705/14.28 705/14.280S 705/14.31 705/14.310S 705/14.33 705/14.330S 705/2 705/26.8 705/2P 705/314 705/314P 705/325 705/325S 705/400 705/400P 705/5 705/500 705/500P 705/52 705/52P 705/5P 705/75 705/75S 707/802 707/802S 707/E17.005 707/E17.005S 726/2 726/2S 96/222 96/222P

Classification Explorer

Cited documents: WO03080472 A1, WO0152762 A1, WO0051093 A1, US7494524 BA, US7389630 BB, US7188846 BB, US7112232 BB, US7036449 BB, US7028351 BA, US6994247 BB, US6981347 BA, US6974029 BB, US6941733 BB, US6938381 BA, US6931684 BA, US6925781 BA, US6917288 BB, US6914525 BB, US6868340 BB, US6851251 BB, US6838401 BA, US6816882 BA, US6813786 BA, US6792734 BB, US6792395 BB, US6773034 BA, US6644455 BB, US6609104 BA, US6574561 BB, US6563910 BB, US6522254 BA, US6442241 BA, US6438907 BA, US6385919 BA, US6385340 BA, US6296693 BA, US6239700 BA, US6179431 BA, US6170240 BA, US6128890 A, US6118866 A, US6116780 A, US6097995 A, US6073573 A, US6060994 A, US6052842 A, US6052574 A, US6028514 A, US6023223 A, US6014641 A, US5981964 A, US5956907 A, US5913607 A, US5859438 A, US5839113 A, US5813200 A, US5805670 A, US5718612 A, US5682882 A, US5655680 A, US5651231 A, US5515974 A, US5464189 A, US5435837 A, US5401901 A, US5211321 A, US5204663 A, US5117593 A, US5115613 A, US5083410 A, US5056293 A, US4955166 A, US4934529 A, US4869049 A, US4850031 A, US4839804 A, US4838275 A, US4671189 A, US4619852 A, US4615158 A, US4608495 A, US4518507 A, US4504739 A, US4483273 A, US4365579 A, US4355699 A, US4352260 A, US4294352 A, US4272799 A, US4241465 A, US4221363 A, US4212392 A, US4199826 A, US4185423 A, US4090087 A, US4078346 A, US4014177 A, US3934847 A, US3876223 A, US3715843 A, US3714749 A, US3690077 A, US3679177 A, US3665522 A, US3619822 A, US3596622 A, US3590562 A, US3452368 A, US3401409 A, US3321103 A, US3256440 A, US3173387 A, US2840866 A, US2693620 A, US2404109 A, US2009171828 AA, US2008314248 AA, US2008261554 AA, US2008162180 AA, US2007293186 AA, US2007273480 AA, US2007228692 AA, US2007084874 AA, US2007015506 AA, US2006272304 AA, US2006235724 AA, US2006218019 AA, US2006206246 AA, US2006173708 AA, US2006161609 AA, US2006161467 AA, US2006155620 AA, US2006154642 AA, US2006143024 AA, US2006135116 AA, US2006128357 AA, US2006109113 AA, US2006079200 AA, US2006074724 AA, US2006059838 AA, US2006046687 AA, US2006036619 AA, US2006026017 AA, US2006009992 AA, US2005282518 AA,

US2005252367 AA, US2005246199 AA, US2005240430 AA, US2005234748 AA, US2005219044 AA, US2005216386 AA, US2005187677 AA, US2005176403 AA, US2005171952 AA, US2005144114 AA, US2005137934 AA, US2005137903 AA, US2005119949 AA, US2005091368 AA, US2005086127 AA, US2005086075 AA, US2005067802 AA, US2005044423 AA, US2005027571 AA, US2005013417 AA, US2005011356 AA, US2004267647 AA, US2004260659 AA, US2004242976 AA, US2004215507 AA, US2004199284 AA, US2004191744 AA, US2004168086 AA, US2004094037 AA, US2004088345 AA, US2004034537 AA, US2004024688 AA, US2004006566 AA, US2003227236 AA, US2003197615 AA, US2003194061 AA, US2003184649 AA, US2003158897 AA, US2003145326 AA, US2003139996 AA, US2003125998 AA, US2003125961 AA, US2003120509 AA, US2003074273 AA, US2003014342 AA, US2003005933 AA, US2002198782 AA, US2002161779 AA, US2002161609 AA, US2002143469 AA, US2002138298 AA, US2002116620 AA, US2002095317 AA, US2002091550 AA, US2002062249 AA, US2002032582 AA, US2002016923 AA, US2001056435 AA, US2001052681 AA, US2001052142 AA, US2001039770 AA,

Forward Citations: WO17130012, WO14098841, WO13028679, WO12154693, WO12154693, WO12135074, WO12135074, WO11140506, WO11140506, WO10093544, WO10044929, WO10044929, USD665551, US9798325, US9797153, US9794755, US9788032, US9787848, US9773361, US9740883, US9733644, US9713675, US9706166, US9702160, US9684354, US9654767, US9646435, US9642290, US9628844, US9610124, US9597023, US9591452, US9585606, US9572002, US9554190, US9552611, US9531694, US9497610, US9489531, US9420219, US9413557, US9407492, US9372544, US9357485, US9345369, US9254363, US9247408, US9247286, US9245440, US9204138, US9183597, US9154901, US9154837, US9143770, US9125987, US9124885, US9113190, US9100685, US9093755, US9078610, US9061102, US9044543, US9037648, US8995946, US8984647, US8959541, US8954571, US8933393, US8898687, US8879242, US8825242, US8800215, US8797719, US8792227, US8760859, US8760395, US8754980, US8643772, US8642900, US8639620, US8637842, US8635637, US8620113, US8607353, US8599576, US8599537, US8548911, US8547710, US8521557, US8486275, US8408957, US8402081, US8392375, US8366997, US8254090, US8154899, US8032075, US8014733, US7920060, US7791474, US2017048227, US2016320193, US2016145887, US2016050191, US2015359184, US2015178669, US2015157972, US2015154709, US2015111552, US2015040215, US2014278801, US2014208499, US2014191704, US2014067167, US2014067160, US2014067159, US2014032704, US2013332209, US2013305384, US2013254096, US2013242840, US2013047521, US2013006401, US2012282829, US2012264394, US2012251388, US2012222367, US2012191242, US2012140431, US2012066051, US2012030767, US2011313832, US2011298967, US2011208010, US2011173045, US2011161121, US2011157326, US2011088940, US2011058664, US2011058312, US2010305794, US2010292844, US2010241616, US2010223623, US2010223093, US2010202924, US2010202171, US2010177599, US2010100399, US2010082459, US2010049803, US2010023952, US2009326978, US2009247850, US2009233637, US2009216639, US2009151186, US2009125361, US2009030825, US2008281710, US2008205695, US2008204226, US2008201291, US2008097935, US2007115097, ITAN20130055, CN103700054, CN103544380, CN102323853,

Abstract:
Source: US2007203727A One provides (101) a plurality of carriable containers having emergency supplies contained therein wherein each of these carriable containers is readily carriable by an average adult human. These carriable containers are then placed (103) within one or more corresponding controlled access containers as are provided at one or more publicly accessible locations (102). Prior to a triggering catastrophic event, one or more specific authorized beneficiaries are then preauthorized (104) to have catastrophic event−based access to one or more of these carriable containers. So configured, the authorized beneficiary(s) will in turn have access to the corresponding emergency supplies that are contained within the carriable container when a triggering catastrophic event occurs.

105) Family number: 41024187 (EP1876049B1) © PatBase

Title: WATER EVACUATION DEVICE FOR A CAR WITH A RETRACTABLE ROOF

Priority: FR20060006132 20060706

Family:

Publication number	Publication date	Application number	Application date
DE602007001644 D1	20090903	DE200760001644T	20070522
EP1876049 A1	20080109	EP20070350007	20070522
EP1876049 B1	20090722	EP20070350007	20070522
FR2903357 A1	20080111	FR20060006132	20060706
FR2903357 B1	20080815	FR20060006132	20060706

Probable Assignee: HEULIEZ SA

Assignee(s):(std): HEULIEZ ; HEULIEZ SA

Assignee(s): HEULIEZ SOC ANONYME ; HEULIEZ SOCIETE ANONYME

Inventor(s):(std): GUILLEZ JEAN MARC ; GUILLEZ JEAN MARCQ ; QUEVEAU GERARD ; QUEVEAU PAUL

Inventor(s): GERARD QUEVEAU ; JEAN MARC GUILLEZ ; PAUL QUEVEAU

Agent(s): TOURNEL JEAN LOUIS; NOVAGRAAF TECHNOLOGIES; CABINET DAVID TOURNEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO SE SI SK TR YU

International class (IPC 8–9): B60J10/00 B60J7/04 B60J7/047 B60R13/02 B60R13/07 (Advanced/Invention); B60J10/00 B60J7/04 B60R13/00 B60R13/02 (Core/Invention)

CPC: B60J10/25 B60J7/0084

European class: B60J10/00D6 B60J7/00G

Classification Explorer

Cited documents: US6419308 BA, EP1671831 A2, DE3910257 C1,

Abstract:
The device has a retractable roof with a fixed return chute and a mobile return chute connected to an evacuation duct (13), where the fixed chute extends below a front and median panels and is discharged in the mobile chute carried by a rear panel or a plate. The duct is carried by a movable window that is mounted slidingly on a body of a vehicle to which the window is integrated. The duct is connected to a rear glass (10) by displacement and has an inlet that is widened.

106) Family number: 41771547 (US2008100706A) © PatBase

Title: ASSET MONITORING SYSTEM USING MULTIPLE IMAGERS

Priority: US20020387792P 20020611 US20030457238 20030609 US20040940881 20040913 US20040931288 20040831 US20060278979 20060407 US20060380574 20060427 US20070619863 20070104 US20070755199 20070530 US20070843932 20070823 US20070865363 20071001 US20080968844 20080103

Family:

Publication number	Publication date	Application number	Application date
US2008100706 AA	20080501	US20080968844	20080103
US9151692 BB	20151006	US20080968844	20080103

Probable Assignee: INTELLIGENT TECH INT INC

Assignee(s):(std): BREED DAVID S ; INTELLIGENT TECH INT INC

Assignee(s): INTELLIGENT TECHNOLOGIES INT INC ; INTELLIGENT TECHNOLOGIES INTERNATIONAL INC

Inventor(s):(std): BREED DAVID S

Inventor(s): BREED DAVID

Agent(s): BRIAN ROFFE ESQ; BRIAN

International class (IPC 8–9): B60C11/24 B60C19/00 B60J7/057 B60N2/00 B60N2/015 B60N2/02 B60N2/06 B60N2/28 B60N2/48 B60N2/66 B60Q1/14 B60R16/037 B60R21/013 B60R21/0136 B60R21/015 B60R22/20 B60R25/25 E05F15/43 G01F23/00 G01F23/20 G01F23/296 G01G19/414 G01M5/00 G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/02 G01S17/88 G01S7/41 G01S7/48 G01S7/539 G06F3/02 G06F3/023 G06K9/00 G07C5/00 G07C5/08 G08B13/14 G08B13/24 G08B21/02 G08B29/18 H01Q1/32 H04N7/18 (Advanced/Invention); B60R1/12 B60R21/00 B60R21/0132 B60R21/0134 B60R21/203 B60R21/2165 B60R21/231 B60R21/26 B60R21/276 B60R22/28 B60R22/46 B60R22/48 G01S13/04 G01S15/06 G01S17/89 (Advanced/Non–invention); H04N7/18 (Core/Invention)

CPC: B60C11/24 B60C19/00 B60J7/0573 B60N2/002 B60N2/015 B60N2/0232 B60N2/0244 B60N2/0248 B60N2/0252 B60N2/0276 B60N2/067 B60N2/28 B60N2/2806 B60N2/2863 B60N2/4829 B60N2/4852 B60N2/4885 B60N2/66 B60N2002/0268 B60N2002/0272 B60Q1/143 B60Q2300/41 B60Q2300/42 B60R16/037 B60R21/013 B60R21/0132 B60R21/0134 B60R21/0136 B60R21/01516 B60R21/01526 B60R21/0153 B60R21/01532 B60R21/01534 B60R21/01536 B60R21/01542 B60R21/01544 B60R21/01546 B60R21/01548 B60R21/01552 B60R21/01554 B60R21/203 B60R21/21656 B60R21/276 B60R22/20 B60R22/201 B60R25/25 B60R2001/1223 B60R2001/1253 B60R2021/0027 B60R2021/01315 B60R2021/23153 B60R2021/26094 B60R2021/2765 B60R2022/208 B60R2022/288 B60R2022/4685 B60R2022/4825 E05F15/43 E05F15/431 E05F2015/433 E05Y2900/516 E05Y2900/542 E05Y2900/55 G01F23/0076 G01F23/20 G01F23/2962 G01G19/4142 G01S7/417 G01S7/4802 G01S7/539 G01S13/04 G01S15/04 G01S15/06 G01S15/42 G01S15/87 G01S15/88 G01S17/026 G01S17/88 G01S17/89 G06F3/0219 G06F3/0233 G06F3/0237 G06F3/0238 G06K9/00362 G06K9/00624 G06K9/00832 G07C5/008 G07C5/0808 G08B13/1427 G08B13/248 G08B21/0286 G08B29/181 G10K2210/1282 G10K2210/3219 H01Q1/3291 G01M5/0008 G08B13/2462 B60R21/01538 H04N7/181

European class: B60C11/24 B60C19/00 B60J7/057B B60N2/00C B60N2/015 B60N2/02B4 B60N2/02B6 B60N2/02B6B B60N2/02B6C B60N2/02B6W B60N2/06S B60N2/28 B60N2/28B2 B60N2/28P4 B60N2/48C2C B60N2/48C3C B60N2/48W B60N2/66 B60Q1/14C1B B60R16/037 B60R21/013 B60R21/0136 B60R21/015 B60R22/20 B60R25/25 E05F15/00B6B E05F15/00B6B2 G01F23/00G1A G01F23/20 G01F23/296D G01G19/414A G01M5/00B G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/02D G01S17/88 G01S7/41D G01S7/48A G01S7/539 G06F3/023M G06F3/023M8 G06F3/023P G06F3/02A5 G06K9/00H G06K9/00V G06K9/00V7 G07C5/00T G07C5/08D G08B13/14D G08B13/24B5T G08B13/24B7D G08B21/02A26 G08B29/18A H01Q1/32L10 L60N2/02B6S L60Q300/410 L60Q300/420 L60R1/12C L60R1/12G L60R21/00C L60R21/0132 L60R21/0134 L60R21/013R L60R21/015G2 L60R21/015G6 L60R21/015G6B L60R21/015G6D L60R21/015G6F L60R21/015G6H L60R21/015G7 L60R21/015G8 L60R21/015G8C L60R21/015G8E L60R21/015G9 L60R21/015J L60R21/01H3Y L60R21/203 L60R21/2165S L60R21/231M L60R21/26V L60R21/276 L60R21/276L L60R22/20B L60R22/20R L60R22/28L L60R22/46L L60R22/48B2

P05F15/00B6B5R P05Y900/516 P05Y900/542 P05Y900/550 S01S13/04 S01S15/04 S01S15/06 S01S15/88 S01S17/89 S10K210/1282 S10K210/3219

US class: 1/1 348/143 348/143P 348/E7.085 348/E70.85S

Classification Explorer

Cited documents: USRE40073 E, US7768380 BB, US7746379 BB, US7579941 BB, US7164117 BB, US7138913 BB, US7019637 BA, US6847892 BB, US6711474 BA, US6675006 BA, US6553296 BB, US6526335 BA, US6437702 BA, US6400835 BA, US6324453 BA, US6302438 BA, US6272411 BA, US6005958 A, US5983147 A, US5917433 A, US5845000 A, US5835613 A, US5829782 A, US5531472 A, US5528698 A, US5469369 A, US5446661 A, US5398185 A, US5193124 A, US5118134 A, US5074583 A, US5071160 A, US4768088 A, US4750197 A, US2011095940 AA,

Forward Citations: US9393878, US8988525, US8972573, US8959036, US8760520, US8654197, US8624979, US8203657, US7760132, US7423580, US2016260323, US2016212694, US2016084947, US2016034944, US2014111642, US2013188825, US2012320204, US2011221573, US2011133891, US2011093583, US2010225764, US2010118149, US2010007805, US2007241897, US2006256001, US2005128314, EP2756460, CN103620659, CN102667746,

Abstract:
Source: US2008100706A Asset including an arrangement for monitoring objects in an interior of the asset includes at least first and second optical imagers for obtaining images of a common area of the interior and which are spaced apart from one another, and processing circuitry coupled to the first and second imagers and arranged to derive information about objects in the interior from images obtained by the first and second imagers. A communication system may be arranged on the asset and coupled to the processing circuitry. The communication system wirelessly transmits the information about the objects to a remote facility. A location determining system may be arranged on the asset to monitor the location of the asset so that the communication system also transmits the location of the asset to the remote facility.

0) US2010011670A – FASTENING STRIP FOR USE WITH A SEAL FOR SEALING...

107) Family number: 42003398 (US2010011670A) © PatBase

Title: FASTENING STRIP FOR USE WITH A SEAL FOR SEALING A WINDOW

Priority: EP20070100504 20070112 EP20080701387 20080110 WO2008EP50238 20080110

Family:

Publication number	Publication date	Application number	Application date
AT425890 E	20090415	AT20070100504T	20070112
CN101663178 A	20100303	CN200880006521	20080110
DE602007000723 D1	20090430	DE200760000723T	20070112
EP1944182 A1	20080716	EP20070100504	20070112
EP1944182 B1	20090318	EP20070100504	20070112
EP2114713 A1	20091111	EP20080701387	20080110
ES2325891 T3	20090923	ES20070100504T	20070112
IN02800KN2009 A	20150220	IN2009KN02800	20090803
MX2009008625 A1	20091102	MX20090008625	20080110
RU2009130722 A	20110220	RU20090130722	20080110
RU2463175 C2	20121010	RU20090130722	20080110
US2010011670 AA	20100121	US20080522789	20080110
US8371069 BB	20130212	US20080522789	20080110
WO08084076 A1	20080717	WO2008EP50238	20080110

Probable Assignee: RAINFOREST R AND D LTD

Assignee(s):(std)**:** HYLAND TOM ; O SULLIVAN TONY ; RAINFOREST R AND D LTD ; REHJNFOREST AR EHND DI LTD

Inventor(s):(std)**:** KHAJLEHND TOM ; O SALLIVAN TONI ; TOM HYLAND ; TONY O SULLIVAN ; O SULLIVAN TONY ; HYLAND TOM

Agent(s): MOORE BARRY ET AL; HANRATTY CATHERINE; KUSNER AND JAFFE HIGHLAND PLACE SUITE 310; KUSNER AND JAFFE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J10/00 B60J10/02 E06B7/16 (Advanced/Invention); B60J10/00 E06B7/16 (Core/Invention)

CPC: B60J10/88 B60J10/265 B60J10/30 B60J10/78

European class: B60J10/00D7B B60J10/00G B60J10/04D3 B60J10/08C3

US class: 49/482.1 49/489.1 49/489.100P 49/492.1 49/493.1

Classification Explorer

Cited documents: WO04037576 A2, WO02072372 A2, US7478863 BB, US7118169 BB, US7055291 BB, US7052021 BB, US7010886 BB, US6820372 BB, US6681526 BB, US6679003 BB, US6612074 BA, US6546683 BA, US6409251 BA, US6152523 A, US6030020 A, US5870860 A, US5799442 A, US5743047 A, US5702148 A, US5607198 A, US5519968 A, US5460424 A, US5433038 A, US5395126 A, US5376423 A, US5343662 A, US5300346 A, US5205075 A, US4850640 A, US4728146 A, US4438609 A, US4436337 A, US4270328 A, US3968613 A, US3720030 A, US3634991 A, US3167824 A, US3139784 A, US3110068 A, US3077251 A, US3029481 A, US2008302022 AA, US2007163182 AA, US2007101656 AA, US2002184828 AA, JP9240283 A2, JP4238728 A2, JP2003146086 A2, GB941057 A, EP0193011 A2,

Forward Citations: WO16092231, WO15015119, WO12042172, WO11039490, WO10052418, USD797309, US9623739, US9475372, US9289944, US9114693, US9091114, US8919846, US8819997, US2014007511, US2013292965, US2013093141, JP2013506578,

FR3009806, FR2950832, DE102013006963, CN104507717, CN104354570,

Abstract:
Source: US2010011670A A fastening strip (10, 30) and seal (40) arrangement are described. By use of a plurality of individual retention elements (20) that are coupled−either integrally or separate−to the fastening strip it is possible to effect inter−engagement of the seal and strip. The retention elements are received into the seal, which is deformable and engages with the retention elements to effect the retention of the fastening strip to the seal.

0) US2008169134A – TWO–WHEELED VEHICLE

108) Family number: 42022960 (US2008169134A) © PatBase

Title: TWO–WHEELED VEHICLE

Priority: EP20080705594 20080116 JP20090546411 20080116 US20070624103 20070117
US20080015435 20080116 US20080015394 20080116 US20070880909P 20070117
US20070624142 20070117 US20070624144 20070117 WO2008US00536 20080116

Family:

Publication number	Publication date	Application number	Application date
AU2008205593 AA	20080724	AU20080205593	20080116
AU2008205593 BB	20110929	AU20080205593	20080116
DE602008015600 D1	20120712	DE200860015600T	20080116
EP2104626 A2	20090930	EP20080705594	20080116
EP2104626 B1	20120516	EP20080705594	20080116
JP2010516545 T2	20100520	JP20090546411T	20080116
JP2011093530 A2	20110512	JP20110005913	20110114
JP2011093531 A2	20110512	JP20110005916	20110114
JP2011105308 A2	20110602	JP20110005914	20110114
JP2011121585 A2	20110623	JP20110005915	20110114
JP2012116484 A2	20120621	JP20120028133	20120213
JP4865914 B2	20120201	JP20110005915	20110114
JP4905818 B2	20120328	JP20110005916	20110114
JP5006455 B2	20120822	JP20110005913	20110114
JP5037702 B2	20121003	JP20110005914	20110114
JP5244127 B2	20130724	JP20090546411T	20080116
RU2009131066 A	20110227	RU20090131066	20080116
RU2478515 C2	20130410	RU20090131066	20080116
US2008169134 AA	20080717	US20080015435	20080116
US2008169148 AA	20080717	US20070624103	20070117
US2008169149 AA	20080717	US20070624142	20070117
US2008169627 AA	20080717	US20070624144	20070117
US2008173122 AA	20080724	US20080015394	20080116
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US7748746 BB	20100706	US20070624103	20070117
US7832516 BB	20101116	US20080015394	20080116
US7883136 BB	20110208	US20080015435	20080116
WO08088809 A2	20080724	WO2008US00536	20080116
WO08088809 A3	20081030	WO2008US00536	20080116

Probable Assignee: POLARIS IND INC

Assignee(s):(std): BAGNARIOL DAVID LOUIS ; CHEVALIER MARK W ; HANTEN MIKE ; HOEVE JASON WILLIAM BEIBER ; HOLROYD JAMES ARTHUR JOHN ; KOESTERS BRIAN K ; POLARIS INC ; OTTERSON ANDREW ; VORNDRAN RONALD A ; TOMOLILLO VITTORIO ; SONG MICHAEL ; POLARIS INDASTRIZ INK

Assignee(s): POLARIS IND INC MEDINA ; POLARIS IND ; POLARIS IND INC ; POLARIS INDUSTRIES INC

Inventor(s):(std): BAGNARIOL DAVID LOUIS ; BEIBER HOEVE JASON WILLIAM ; CHEVALIER MARK W ; HANTEN MICHAEL J ; HANTEN MIKE ; HOEVE JASON WILLIAM BEIBER ; HOLROYD JAMES ARTHUR JOHN ; KHUV DZHEJSON UILL JAM BEJBER ; KOESTERS BRIAN K ; KOESTERS BRIAN R ; KOSTERS BRAJAN K ; OTTERSON ANDREW ; OTTERSON ANDREW M ; SHEVAL E MARK V ; SONG MICHAEL ; SONG MICHAEL M ; TOMOLILLO VITTORIO ; VORNDRAN RONALD A ; VITTORIO TOMOLILLO ; SONG MAJKL ;

OTTERSON EHNDRJU ; MIKE HANTEN ; MICHAEL SONG ; KHOLROJD DZHEJMS ARTUR DZHON ; KHANTEN MAJK ; JOHN HOLROYD JAMES ARTHUR ; LOUIS BAGNARIOL DAVID ; BAGNARIOL DEHVID LUIS ; BAGNARIOL DAVID L ; ANDREW OTTERSON

Inventor(s): KHUV DZHEJSON UILL'JAM BEJBER ; JASON WILLIAM BEIBER HOEVE ; JAMES ARTHUR JOHN HOLROYD ; DAVID LOUIS BAGNARIOL ; BRIAN K KOESTERS ; MARK W CHEVALIER ; SHEVAL'E MARK V. ; RONALD A VORNDRAN ; VORNDRAN RONALD A OSCEOLA ; TOMOLILLO VITTORIO STILLWATER ; SONG MICHAEL MAPLE GROVE ; OTTERSON ANDREW PRIOR LAKE ; KOESTERS BRIAN K LINDSTROM ; HOLROYD JAMES ARTHUR JOHN STILLWATER ; HOEVE JASON WILLIAM BEIBER STACY ; HANTEN MIKE DELANO ; CHEVALIER MARK W ANDOVER ; BAGNARIOL DAVID LOUIS SHAFER

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; REUTELER RAYMOND WERNER; BAKER AND DANIELS LLP; GROEN ERIC J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/04 B60K13/02 B60K13/04 B60K17/30 B60P3/22 B62D61/02 B62H1/02 B62H1/12 B62J1/12 B62J11/00 B62J17/04 B62J23/00 B62J25/00 B62J27/00 B62J35/00 B62J37/00 B62J9/00 B62J99/00 B62K11/00 B62K11/04 B62K11/10 B62K19/00 B62K21/04 B62K21/18 B62K23/08 B62K25/20 B62K25/28 B62M25/06 B62M7/00 B62M7/02 B62M7/04 F02M35/16 F16C29/06 G05G1/30 (Advanced/Invention); B60J1/02 B60K13/00 B60K17/00 B60P3/22 B62D61/00 B62H1/00 B62J1/00 B62J11/00 B62J17/00 B62J25/00 B62J27/00 B62J35/00 B62J37/00 B62J9/00 B62J99/00 B62K11/00 B62K21/00 B62K23/00 B62K25/04 B62M25/00 B62M7/00 F16C29/06 G05G1/14 (Core/Invention)

CPC: B62J25/00 B62J27/00 B62K11/06 B62K23/08 B62K25/286 B62K19/12 B62K11/04 Y10T74/20055 Y10T74/20189 B60J1/04 B62J17/04 B62J35/00 B62K11/08 B62K25/283

European class: B60J1/04 B62J17/04 B62J25/00 B62J27/00 B62J35/00 B62K11/04 B62K11/06 B62K11/08 B62K11/10 B62K19/12 B62K23/08 B62K25/28B B62K25/28C

US class: 180/219 180/227 180/309 180/6.24 180/6.240P 280/288.4 280/293 280/304.3 280/835 296/180.5 296/78.1 296/89 296/89S 384/45 384/45S 74/473.16 74/478 74/478P

Classification Explorer

Cited documents: WO08088809 A2, USRE34897 E, USRE31994 E, USD567715 S1, USD495982 S1, USD490038 S1, USD465181 S1, USD449124 S1, USD384319 S1, USD321947 S1, US7552960 BB, US7549664 BB, US7467682 BA, US7451994 BB, US7384055 BA, US7380630 BB, US7380624 BB, US7377552 BB, US7347485 BA, US7281750 BA, US7264099 BB, US7264072 BB, US7258186 BB, US7077230 BB, US7073525 BB, US7055843 BB, US7040442 BB, US7033209 BB, US7011174 BA, US6971462 BB, US6969082 BB, US6951417 BB, US6945376 BA, US6939028 BB, US6919415 BB, US6910704 BA, US6905160 BB, US6898656 BB, US6896278 BA, US6871250 BB, US6860353 BB, US6840417 BB, US6840344 BB, US6837509 BB, US6823958 BB, US6806590 BA, US6796030 BB, US6793384 BB, US6792966 BB, US6789638 BB, US6786625 BB, US6786312 BA, US6783040 BB, US6762377 BB, US6756697 BB, US6748569 BA, US6744985 BA, US6722461 BB, US6719179 BA, US6709042 BB, US6707377 BB, US6697966 BA, US6695330 BB, US6695088 BB, US6691814 BB, US6679347 BB, US6666503 BA, US6641196 BA, US6637787 BA, US6619415 BA, US6595811 BB, US6585072 BB, US6581711 BA, US6543831 BB, US6505877 BA, US6502884 BB, US6491193 BB, US6422332 BA, US6416072 BA, US6409783 BA, US6407663 BA, US6407633 BA, US6394214 BA, US6293606 BA, US6276482 BA, US6254166 BA, US6237565 BA, US6170593 BA, US6170593 B1, US6151976 A, US6142123 A, US6123239 A, US6120167 A, US6105701 A, US6099151 A, US6068075 A, US5869907 A, US5860405 A, US5857727 A, US5856976 A, US5856779 A, US5855404 A, US5851727 A, US5819593 A, US5812251 A, US5779254 A, US5730483 A, US5716653 A, US5713653 A, US5712251 A, US5661999 A, US5592999 A, US5577570 A, US5519378 A, US5507200 A, US5490573 A, US5460061 A, US5418526 A, US5388744 A, US5385068 A, US5375677 A, US5334438 A, US5311514 A, US5301767 A, US5241936 A, US5118126 A, US5102021 A, US5081589 A, US5081586 A, US5063811 A, US5040168 A, US5025883 A, US5012883 A, US5010782 A, US4989665 A, US4981121 A, US4958451 A, US4928781 A, US4911494 A, US4887829 A, US4887687 A, US4881614 A, US4847454 A, US4830423 A, US4830135 A, US4799969 A, US4799569 A, US4793293 A, US4745596 A, US4715031 A, US4710599

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Forward Citations: WO16060585, WO15070216, WO14144224, USD722538, USD718670, USD718669, USD716190, USD715696, USD656068, USD624853, USD600374, USD600373, US9739245, US9493208, US9481426, US9440702, US9440504, US9428236, US9403571, US9358888, US9334006, US9296445, US9284926, US9180776, US9150270, US9150265, US8910993, US8907257, US8870207, US8777291, US8752661, US8651214, US8636295, US8506000, US8496082, US8447436, US8292021, US8276944, US8272460, US8151925, US8051938, US8047597, US7988226, US7975792, US7934744, US7883136, US7832516, US7766115, US7748746, US7708326, US7669682, US7658395, US7549495, US7503609, US2017089308, US2016288874, US2016129967, US2015314825, US2015217827, US2015191085, US2015158542, US2015130161, US2015053495, US2015027797, US2014262580, US2014183837, US2014158451, US2013257115, US2013154301, US2013054126, US2013032589, US2013015633, US2012292948, US2012205888, US2012193164, US2012133115, US2011320063, US2011241374, US2010307853, US2010307852, US2010243354, US2010193275, US2010077804, US2010000818, US2009250963, US2009243328, US2009194356, US2009167002, US2009114466, US2009095113, US2009065278, US2009057509, US2009050386, US2008173122, US2008169627, US2008169149, US2008169134, US2007232138, US2006220407, US2006220406, RU2600557, JP5894382, JP2012012008, EP2995538, EP2923938, EP2738072, EP2589528, CN105059437, CN103895778, BE1020855,

Abstract:
Source: US2008169134A A vehicle is disclosed. The vehicle may include multiple fuel storage tanks arranged in a split side−by−side configuration. The vehicle may include a rear suspension having a linkage which moves in a direction not parallel with a centerline plane of the vehicle. The vehicle may include a tip−over structure which prevents unwanted tip−over of the vehicle. The vehicle may have moveable foot control levers to accommodate different size riders. The vehicle may include a moveable windshield.

0) US2011099912A – VEHICLE DOOR FRAME STRUCTURE

109) Family number: 42348662 (US2011099912A)

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Title: VEHICLE DOOR FRAME STRUCTURE

Priority: JP20070093368 20070330 JP20070095437 20070330 JP20070117907 20070427 JP20090245582 20091026 WO2008JP56047 20080328

Family:

Publication number	Publication date	Application number	Application date
CN101663177 A	20100303	CN200880010603	20080328
CN101663177 B	20121121	CN200880010603	20080328
JP2008247283 A2	20081016	JP20070093368	20070330
JP2008254460 A2	20081023	JP20070095437	20070330
JP2008273343 A2	20081113	JP20070117907	20070427
JP2010047256 A2	20100304	JP20090245582	20091026
JP4430687 B2	20100310	JP20070095437	20070330
JP5043091 B2	20121010	JP20090245582	20091026
JP5154816 B2	20130227	JP20070093368	20070330
JP5224714 B2	20130703	JP20070117907	20070427
US2011099912 AA	20110505	US20080593645	20080328
US8458959 BB	20130611	US20080593645	20080328
WO08123409 A1	20081016	WO2008JP56047	20080328

Probable Assignee: SHIROKI CORP

Assignee(s):(std)**:** MURATA KENJI ; OHSAWA SHIGENOBU ; OHTAKE YASUHIRO ; SHIROKI CORP ; YOSHIHARA JIRO

Assignee(s): SHIROKI KOGYO CO LTD

Inventor(s):(std)**:** JIRO YOSHIHARA ; KENJI MURATA ; MURATA KENJI ; OHSAWA SHIGENOBU ; OHTAKE YASUHIRO ; SHIGENOBU OHSAWA ; YASUHIRO OHTAKE ; YOSHIHARA JIRO ; OTAKE YASUHITO ; OSAWA SHIGENOBU ; MURATA AKIYUKI

Agent(s): MILLEN WHITE ZELANO BRANIGAN P C; MILLEN WHITE ZELANO BRANIGAN PC; MIURA KUNIO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J5/04 (Advanced/Invention); B60J5/04 (Core/Invention)

CPC: B60J10/21 B60J10/86 B60J10/88 B60J5/0402

European class: B60J10/00D1 B60J10/08C B60J10/08C3 B60J5/04B2

US class: 49/479.1 49/502 49/502P

Classification Explorer

Cited documents: WOJP56047, WO08123409 A1, US7390050 BB, US7350849 BB, US7152373 BB, US7093393 BB, US6802666 BA, US5839232 A, US5718084 A, US5566510 A, US5524388 A, US5493814 A, US5127193 A, US4956941 A, US4910918 A, US4838607 A, US4729593 A, US2007084130 AA, US2005204634 AA, US2004221512 AA, US2004123526 AA, US20040123526, US1914216 A, US0123526, JPS57109014 U, JP57109014 U1, JP57109014 U, JP3276817 A2, JP3276817, JP200762637, JP200762637, JP2007062637 A2, JP2007062637, JP200607852, JP2006007852 A2, JP2006007852, JP2005313697 A2, JP2005313697, JP2005153767 A2, JP2005153767, JP2004338612 A2, JP2004338612, JP200372383, JP200372383, JP2003072383 A2, JP2003072383, JP2002127749 A2, JP2002127749, JP2001253239 A2, JP2001253239, JP1159185 A2, JP1159185, JP1159185, JP11059185 A2, JP11059185, JP1035284, JP10035284 A2, JP10035284, DE19961873 A1, DE19961873, DE10041187 A1,

DE10041187,

Forward Citations: WO16108143, WO13015271, WO13015270, US9776480, US9764625, US9656538, US9649921, US9649915, US9618123, US9566850, US9505294, US9383016, US9186964, US9027285, US8851552, US8801070, US8651557, US8458959, US8424953, US8282154, US8172125, US2016280054, US2016257183, US2016214469, US2016214468, US2016167491, US2016073527, US2015292624, US2015266364, US2015130214, US2015007504, US2014367923, US2014157602, US2014137480, US2014132028, US2013232881, US2013161976, US2013127196, US2011308171, US2010270830, JP6105910, JP5651656, JP5390835, JP2014151659, JP2014104872, JP2014088077, JP2014046792, JP2013023130, JP2010116043, JP2010111157, EP2343205, EP2343205, CN105172552, CN103786555,

Abstract:
Source: US2011099912A A vehicle door frame structure has an upper sash member located along a roof panel of a vehicle body and also has a vertical pillar sash member located along a center pillar of the vehicle body. The upper sash member has, at its linear end joined to the vertical pillar sash member side, an aesthetically designed section and an inner frame portion. The aesthetically designed section is located on the outer side of the door, and the inner frame portion is located closer to the vehicle interior than the aesthetically designed section and is shorter in length than the aesthetically designed section. The vertical pillar sash member has at its upper end a superposed contact section that is superposed, in the direction of the thickness of the door, on an end of the inner frame portion of the upper sash member, and the superposed contact section and the inner frame portion are joined together while being superposed on each other.

0) US2008272617A – TRAILER WITH AERODYNAMIC REAR DOOR

110) Family number: 42459389 (US2008272617A) © PatBase

Title: TRAILER WITH AERODYNAMIC REAR DOOR

Priority: US20070927614P 20070504 US20070932245P 20070530 US20080115511 20080505 US20080070669P 20080325 US20080070670P 20080325 US20070933882P 20070608 US20080128809 20080529 US20080135541 20080609

Family:

Publication number	Publication date	Application number	Application date
US2008272617 AA	20081106	US20080115511	20080505
US2008296930 AA	20081204	US20080128809	20080529
US2008303311 AA	20081211	US20080135541	20080609
US7699382 BB	20100420	US20080115511	20080505
US7780224 BB	20100824	US20080135541	20080609
US7789453 BB	20100907	US20080128809	20080529

Probable Assignee: VANGUARD NATIONAL TRAILER CORP

Assignee(s):(std)**:** VANGUARD NAT TRAILER CORP

Assignee(s): VANGUARD NATIONAL TRAILER CORP

Inventor(s):(std)**:** WALLACE KEITH ; ROUSH MARK A

Agent(s): DOWELL BAKER PC

International class(IPC 8–9)**:** B60J5/06 B60J5/12 B62D35/00 B62D35/02 B62D37/02 (Advanced/Invention); B60J5/06 B62D35/00 B62D37/00 (Core/Invention)

CPC: B60J5/062 B60J5/125 B62D35/001 B60R19/565 B60S9/02

European class: B60J5/06B B60J5/12B B60S9/02 B62D35/00B L60R19/56B

US class: 280/763.1 293/117 296/180.1 296/180.4 296/186.2 296/186.200P 296/186.3 298/180.1 298/180.4

Classification Explorer

Cited documents: USD277840 S1, USD266158 S1, US824541 A, US7578541 BB, US7284788 BA, US7188875 BB, US7165804 BB, US7093889 BB, US7086674 BB, US7008005 BA, US6974178 BB, US6837536 BA, US6644720 BB, US6623234 BA, US6554047 BA, US6467833 BA, US6450556 BA, US6409194 BA, US6401887 BA, US6394513 BB, US6297486 BA, US6286894 BA, US6213540 BA, US6199942 BA, US6176529 BA, US6176529 B1, US6116667 A, US6109675 A, US609789 A, US6085878 A, US6076871 A, US6068329 A, US6000738 A, US5947538 A, US5947452 A, US5921617 A, US5839760 A, US5788321 A, US5735560 A, US5659926 A, US564027 A, US5542365 A, US5418257 A, US5384975 A, US5375882 A, US5280990 A, US5242185 A, US5236347 A, US5058756 A, US5052732 A, US5048863 A, US4991347 A, US495801 A, US4938524 A, US4929008 A, US4924780 A, US4886046 A, US4789117 A, US4785494 A, US4682808 A, US4668008 A, US4666130 A, US4657121 A, US4649831 A, US4640541 A, US4624074 A, US4486046 A, US4458936 A, US4437410 A, US4403804 A, US4379585 A, US4359239 A, US4321989 A, US4262953 A, US4257641 A, US4236745 A, US4214787 A, US4210354 A, US4142755 A, US4077330 A, US4060268 A, US4021069 A, US4008915 A, US4006932 A, US3999797 A, US3995563 A, US3960402 A, US3934922 A, US3934635 A, US3743343 A, US3415566 A, US3405778 A, US3118702 A, US2737411 A, US2569983 A, US2514695 A, US2008116702 AA, US2008093887 AA, US2005280282 AA, US2005146161 AA, US2005104390 AA, US2004056029 AA, US2002030384 AA, US2001024043 AA, US1922027 A, US1127241 A, SE5115804 A,

Forward Citations: WO16121847, WO13078275, WO11034535, WO10116155, USD746178, USD706686, USD705133, USD649090, US9776674, US9718502, US9688320, US9669883, US9616944, US9573636, US9545960, US9528232, US9493196, US9487171, US9463759, US9457847, US9457726, US9440689, US9440688, US9409610, US9409609, US9404231, US9352714, US9346496, US9296433, US9283998, US9283997, US9199676, US9199673, US9139240, US9132869, US9126638, US9056636, US9004575, US8985677, US8944490, US8919863, US8899660, US8876191, US8820817, US8801078, US8783758, US8783757, US8708398, US8684447, US8678474, US8678473, US8622462, US8622461, US8590961,

US8579361, US8579359, US8562022, US8491036, US8480162, US8449017, US8376450, US8366180, US8342595, US8322778, US8292351, US8287030, US8276972, US8272680, US8251436, US8191956, US8162384, US8025329, US7967349, US7950721, US7942471, US7942470, US7942469, US7942468, US7942467, US7938475, US7887120, US7857376, US7850224, US7845708, US7828368, US7806464, US7784854, US7748772, US7618086, US2016096557, US2015061318, US2014035316, US2012235441, US2012169086, US2012126572, US2012091754, US2011175396, US2011163570, US2011068605, US2010264691, US2010187856, US2010181799, US2010098481, US2010096883, US2010096882, US2010096881, US2010096880, US2009315297, US2009267365, US2009218848, US2009189414, US2009146453, US2008238139, US2008164722, JP5835857, GB2498810, GB2469559, GB2469559, GB2465600,

Abstract:
Source: US2008272617A An aerodynamic cargo container with rounded rear doors is disclosed. The aerodynamic cargo container includes an angled rear area that reduces base drag when the container is transported. The rear sliding door allows for partial opening of the door and allows for operation of the door when the rear of the container is in close proximity to another object. The crash attenuating skirt deflects vehicles away from the cargo container. A pair of cargo doors may define the curved contour of the trailer rear section. These doors may have a plurality of pivoted and segmented sections that assume the curved contour of a stationary edge when the doors are moved to a closed position.

0) US2010174447A – OBSTACLE DETECTION DEVICE, IN PARTICULAR A FRAM...

111) Family number: 42767888 (US2010174447A) © PatBase

Title: OBSTACLE DETECTION DEVICE, IN PARTICULAR A FRAME FOR A MOTORISED OPENING PANEL OF A MOTOR VEHICLE, AND RESULTING OPENING PANEL

Priority: EP20080826624 20080619 FR20070004496 20070622 WO2008FR00854 20080619

Family:

Publication number	Publication date	Application number	Application date
AU2008278934 AA	20090129	AU20080278934	20080619
AU2008278934 BB	20140703	AU20080278934	20080619
BRPI0813256 A2	20141230	BR2008PI13256	20080619
CA2692080 AA	20091221	CA20082692080	20080619
CA2692080 C	20151117	CA20082692080	20080619
CN101784741 A	20100721	CN200880103759	20080619
DE602008023076 D1	20130516	DE200860023076T	20080619
EP2179121 A2	20100428	EP20080826624	20080619
EP2179121 B1	20130320	EP20080826624	20080619
FR2917770 A1	20081226	FR20070004496	20070622
FR2917770 B1	20110729	FR20070004496	20070622
JP2010531398 T2	20100924	JP20100512738T	20080619
JP5560187 B2	20140723	JP20100512738T	20080619
KR101451973 B1	20141021	KR20107001641	20080619
KR20100040732 A	20100420	KR20107001641	20080619
RU2010101921 A	20110727	RU20100101921	20080619
US2010174447 AA	20100708	US20080666197	20080619
US8175769 BB	20120508	US20080666197	20080619
WO09000975 A1	20081231	WO2007FR01837	20071107
WO09013402 A2	20090129	WO2008FR00854	20080619
WO09013402 A3	20090409	WO2008FR00854	20080619

Probable Assignee: SEALYNX AUTOMOTIVE TRANSIERES

Assignee(s):(std)**:** MALNOE MICHEL ; METZELER AUTOMOTIVE PROFILE ; SEALYNX AUTOMOTIVE TRANSIERES ; PERRIN THIERRY

Assignee(s): METZELER AUTOMOTIVE PROFILE SYSTEMS TRANSIERES SOCIETE PAR ACTIONS SIMPLIFIEE ; METZELER AUTOMOTIVE PROFILE SYSTEMS TRANSIERES ; METZELER AUTOMOTIVE PROFILE SYSTEMS TRANSIERES SOC PAR ACTIONS SIMPLIFIEE

Inventor(s):(std)**:** MALNOE MICHEL ; MICHEL MALNOE ; PERRIN THIERRY ; THIERRY PERRIN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; ROBIC; PRUEFER AND PARTNER GBR; RADAULT GABRIELLE; CABINET JOLLY; SUGHRUE MION PLLC; WALTER ROGER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/00 B60J1/17 B60J5/00 B60J5/04 B60J5/06 B60J7/02 B60J7/057 E05F15/00 E05F15/10 E05F15/16 E05F15/20 E05F15/47 G01C22/00 G01M17/00 G01V1/155 G05B23/02 G06F7/00 (Advanced/Invention);
B60J5/04 E05F15/00 (Advanced/Non–invention);
B60J1/17 B60J5/04 B60J5/06 B60J7/02 E05F15/00 E05F15/10 E05F15/20 G01V1/02 G05B23/02 G06F7/00 (Core/Invention)

CPC: E05Y2800/12 E05Y2900/55 E05F15/431 E05F15/43 E05F2015/432

European class: E05F15/00B6B E05F15/00B6B2 P05Y800/12 P05Y900/550

US class: 340/3.44 340/3.440S 367/189 367/189S 701/29.2 701/29.200P 701/34 701/34P 701/45 701/469 701/47 701/49 701/49S

Classification Explorer

Cited documents: US6486872 BB, US6404158 BA, US6073491 A, US5629681 A, US2003047670 AA, US2003047670, JP9189710 A2, JP9189710, JP8054299 A2, JP8054299, JP2006097463 A2, JP2006097463, JP2000177380 A2, JP2000177380, JP11059170 A2, JP11059170, GB2288014 A1, FR2732927 A1, FR2732927, EP1033271 A1,

Forward Citations: WO12032115, US8844968, US2014077482, CN105909117, CN105909117, CN105539105, CN102691453, CN102519675, CN101916981,

Abstract:
Source: US2010174447A The invention relates to a device for the detection of an obstacle (43) in relation to a controlled−movement panel (3), including: deformable tubular means or a flexible tube (31) for the propagation of low−frequency dynamic pressure waves; means for transmitting (40a) and receiving (40b) the low−frequency dynamic pressure waves; and means for processing (9) said dynamic pressure waves, which, upon detection of an obstacle, are designed to allow the panel (3) to be moved in relation to the obstacle (43), the panel being stopped, lowered or re−opened.

0) US2009058130A – ACTIVE MATERIAL BASED CONCEALMENT DEVICES FOR S...

112) Family number: 42975679 (US2009058130A) © PatBase

Title: ACTIVE MATERIAL BASED CONCEALMENT DEVICES FOR SEAMS

Priority: US20070848488 20070831 US20080116371 20080507 US20120537227 20120629

Family:

Publication number	Publication date	Application number	Application date
CN101376370 A	20090304	CN200810130974	20080829
CN101376370 B	20110525	CN200810130974	20080829
CN101544212 A	20090930	CN200810129799	20080829
DE102008044733 A1	20090423	DE200810044733	20080828
DE102008044735 A1	20090520	DE200810044735	20080828
DE102008044735 B4	20110609	DE200810044735	20080828
US2009058130 AA	20090305	US20070848488	20070831
US2009061188 AA	20090305	US20080116371	20080507
US2012261943 AA	20121018	US20120537227	20120629
US7905538 BB	20110315	US20070848488	20070831
US8282153 BB	20121009	US20080116371	20080507
US8616613 BB	20131231	US20120537227	20120629

Probable Assignee: GM GLOBAL TECH OPERATIONS INC

Assignee(s)(std)**:** BROWNE ALAN L ; GM GLOBAL TECH OPERATIONS INC ; UKPAI UKPAI I ; ULICNY JOHN C ; JONES GARY L ; JOHNSON NANCY L ; KRAMARCZYK MARK A

Assignee(s): UNITED STATES DEPARTMENT OF TREASURY ; UAW RETIREE MEDICAL BENEFITS TRUST ; WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; GM GLOBAL TECHNOLOGY OPERATION CORP ; CITICORP USA INC ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED P ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED PARTIES AS ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED PARTIES AS ; GM GLOBAL TECHNOLOGY OPERATIONS INC

Inventor(s)(std)**:** ULICNY JOHN C ; UKPAI UKPAI I ; KRAMARCZYK MARK A ; JONES GARY L ; JOHNSON NANCY L ; BROWNE ALAN L

Agent(s): GENERAL MOTORS LEGAL STAFF CORP; CANTOR COLBURN LLP

International class (IPC 8–9)**:** B32B7/02 B60J10/08 B60R13/00 B60R13/02 B60R13/04 B60R13/06 H01L41/083 H02N2/00 (Advanced/Invention); B32B7/02 B60J10/00 B60R13/00 B60R13/02 B60R13/04 B60R13/06 (Core/Invention)

CPC: B60R13/06 B60R2013/0293 B32B2307/20 B32B7/045 B32B25/04 B32B2307/51 B32B2479/00 Y10T428/24983

European class: B32B25/04 B32B7/04A B60R13/06 L32B307/510 L32B479/00 L60R13/02T

US class: 296/146.9 296/146.900P 428/217 428/217P

Classification Explorer

Cited documents: US7905538 BB, US7854467 BB, US7758121 BB, US7703839 BB, US7631915 BB, US7607717 BB, US7594697 BB, US7556117 BB, US7548010 BB, US7500704 BB, US7478845 BB, US7448678 BB, US7429074 BB, US7331616 BB, US7284786 BB, US7252313 BB, US7118652 BB, US6979050 BB, US6910714 BB, US6772479 BB, US6702301 BA, US6175989 BA, US6175989 B1, US5979828 A, US5797828 A, US5632841 A, US5558304 A, US5454619 A, US5390974 A, US3816774 A, US2184798 A, US2011089708 AA, US2010295653 AA, US2010138002 AA, US2010032982 AA, US2010019541 AA, US2009299502 AA, US2009236884 AA, US2009230275 AA, US2009218859 AA, US2009061188 AA, US2009047197 AA, US2009020188 AA, US2008302024 AA, US2008223158 AA, US2008217941 AA, US2008217927 AA, US2008216285 AA, US2008120911 AA, US2008100092 AA, US2008100071 AA, US2008034750 AA, US2007071575 AA, US2006186700 AA, US2006012191 AA, US2005263359 AA, US2005199455 AA, US2005198907 AA,

DE112005000562 T5

Forward Citations: US9623813, US9546510, US9454188, US8974157, US8876062, US8804294, US8797703, US8773835, US8616613, US8448436, US8328268, US8282153, US8246100, US8205445, US8057891, US7967367, US7845709, US7765032, US2016032624, US2015360623, US2015130110, US2013242451, US2013240320, US2013000206, US2012161921, US2012091749, US2011197394, US2011061310, US2010190011, US2010127953, US2010101050, US2009061188, US2008302024, US2008104919, US2008100071, US2005216125, ES2557390, EP2332717, CN105539929, CN103306927, CN102848885,

Abstract:
Source: US2009058130A A device for concealing a seam between a first surface and a second surface includes a moveable body fixedly attached to a selected one of the first surface and the second surface, wherein the moveable body is configured to transition between a first position and a second position to conceal and expose the seam, and an active material in operative communication with the moveable body, wherein the active material is configured to undergo a change in at least one property upon receipt of an activation signal, wherein the change in at least one property is effective to transition the moveable body from the first position to the second position.

0) US2009072575A – METHODS OF DEPLOYING A COVER UTILIZING ACTIVE M...

113) Family number: 43031159 (US2009072575A) © PatBase

Title: METHODS OF DEPLOYING A COVER UTILIZING ACTIVE MATERIAL AND AN EXTERNAL HEAT SOURCE

Priority: US20070856744 20070918 US20080059861 20080331 US20080245677 20081003 US20090624406 20091123 WO2008US74971 20080902 US20120371441 20120212 WO2009US35971 20090304

Family:

Publication number	Publication date	Application number	Application date
CN101782053 A	20100721	CN200910253014	20091009
CN101782053 B	20140319	CN200910253014	20091009
CN101861253 A	20101013	CN200880116369	20080902
CN102099214 A	20110615	CN200980111900	20090304
CN102099214 B	20160824	CN200980111900	20090304
CN103337143 A	20131002	CN201310050186	20130208
CN103337143 B	20161228	CN201310050186	20130208
DE102009048282 A1	20100506	DE200910048282	20091005
DE102013201990 A1	20130814	DE201310201990	20130207
DE112008002519 T5	20100701	DE200811002519T	20080902
DE112009000745 T5	20110127	DE200911000745T	20090304
US2009072575 AA	20090319	US20080059861	20080331
US2009074993 AA	20090319	US20070856744	20070918
US2009241537 AA	20091001	US20080245677	20081003
US2010065232 AA	20100318	US20090624406	20091123
US2012137672 AA	20120607	US20120371441	20120212
US8104278 BB	20120131	US20080245677	20081003
US8104820 BB	20120131	US20090624406	20091123
US8109318 BB	20120207	US20080059861	20080331
US8656714 BB	20140225	US20120371441	20120212
WO09038953 A2	20090326	WO2008US74971	20080902
WO09038953 A3	20090514	WO2008US74971	20080902
WO09038953 A8	20100514	WO2008US74971	20080902
WO09123816 A1	20091008	WO2009US35971	20090304

Probable Assignee: GM GLOBAL TECH OPERATIONS INC

Assignee(s):(std)**:** ALEXANDER PAUL W ; BROWNE ALAN L ; GM GLOBAL TECH OPERATIONS INC ; GM BLOBAL TECHNOLOGY OPERATION LLC ; JOHNSON NANCY L ; SAROSI PETER MAXWELL ; MANKAME NILESH D ; PINTO IV NICHOLAS W ; MANCE ANDREW M ; WITTORF MARTEN

Assignee(s): UNITED STATES DEPARTMENT OF TREASURY ; UAW RETIREE MEDICAL BENEFITS TRUST ; WILMINGTON TRUST CO ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED PARTIES AS ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; HITACHI DISPLAYS LTD ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; CITICORP USA INC ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED P ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED PARTIES AS ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED ; GM GLOBAL TECHNOLOGY OPERATIONS INC

Inventor(s):(std)**:** BROWNE ALAN L ; GAO XIUJIE ; HENRY CHRISTOPHER P ; HERRERA GUILLERMO A ; JOHNSON NANCY L ; KEEFE ANDREW C ; MC KNIGHT GEOFFREY P ; WITTORF MARTEN ; XIUJIE GAO ; SAROSI PETER MAXWELL ; PINTO IV NICHOLAS W ; MANKAME NILESH D ; MANCE ANDREW M ; MCKNIGHT GEOFFREY P ; MARTEN WITTORF ; ALEXANDER PAUL W

Agent(s): SLJ LLC; GENERAL MOTORS LEGAL STAFF CORP; CARD JOHN M; CICHOSZ VINCENT A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B32B3/28 B60J11/00 B60J11/02 B60J11/08 B60J3/00 B60J3/02 B60S1/02 E60J3/02 F01B29/04 F01B29/10 F01N5/02 F03G7/04 F03G7/06 G08C17/02 G08C23/02 G08C23/04 (Advanced/Invention); B32B3/28 B60J11/00 B60J3/00 B60S1/02 F01B29/00 F01N5/00 F03G7/00 F03G7/06 (Core/Invention)

CPC: B60J3/002 A45B25/143 A45B2200/1009 B60J1/2011 B60J3/0204 F03G7/065 B60J1/2033 B60J1/2016 B60J1/2019 B60J1/2041 B60J1/2044 B60J1/2055 Y10T428/239 B60S1/0491 B60J11/08 B60J11/025

European class: A45B25/14A B60J1/20B B60J1/20B1C B60J1/20B1P B60J1/20B1R B60J1/20B1S4 B60J1/20B1S5 B60J1/20B1S9 B60J11/02A B60J11/08 B60J3/00B B60J3/02B K45B200/10B

US class: 15/250.31 15/250.310S 160/1 160/1S 160/310 160/310S 160/370.22 160/370.220S 160/370.23 160/405 160/6 296/97.4 296/97.7 296/97.700P 296/97.8 296/97.800S 310/300 310/300S 428/12 428/12P 428/76 428/76S 60/527 60/527P 60/528 60/529

Classification Explorer

Cited documents: WO08033327 A2, US7823382 BB, US7444812 BB, US7367186 BB, US7305824 BA, US7063377 BB, US7059664 BB, US7032282 BB, US7029056 BB, US7029044 BB, US7013536 BB, US6979050 BB, US6928812 BB, US6851260 BB, US6598929 BB, US6279639 BA, US6129181 A, US6124662, US6070287 A, US6018387 A, US6006522 A, US5816306 A, US5813448 A, US5762393 A, US5746469 A, US5745469 A, US5657810 A, US5443923 A, US5396769 A, US5133585 A, US5127228 A, US5107916 A, US5098149 A, US5086618 A, US5076633 A, US4567549 A, US4497241 A, US4281513 A, US4171845 A, US4010612 A, US3830060 A, US3798896 A, US3720107 A, US3436016 A, US3316415 A, US3204690 A, US2690928 A, US2561188 A, US2341236 A, US2141023 A, US2009284039 AA, US2008185936 AA, US2008011472, US2007210606 AA, US2005247411 AA, US2005121240 AA, US2005091975 AA, US2003196769 AA, US2002033616 AA, KR20070114576 A, KR20060013691 A, JP62006824 A2, JP2620775 B2, JP2005002978, EP1830064 A1, DE19529712, CN1693702,

Forward Citations: WO17069816, WO16124405, WO12117164, USD776028, USD658569, US9612040, US9488259, US9346345, US9312792, US9303453, US9166242, US9112307, US8973641, US8938965, US8928206, US8821224, US8769947, US8677550, US8631652, US8508108, US8485581, US8299637, US7982371, US7655001, US2015052728, US2014349560, US2013270839, US2013270461, US2013153160, US2013146237, US2012324672, US2012174571, US2012126667, US2012091744, US2011179790, US2011146265, US2011140456, US2011120118, US2011120116, US2011105004, US2010330894, US2010283258, US2009288891, US2009159624, US2009043288, ITBA20090040, GB2509572, EP3109102, DE102014008201, DE102012007841, DE102012007841, DE102010055652, CN106015457, CN104191948, CN102650274, CN102650274, CN102649392, CN102644566, CN102632793, CN102632793, CN102579157, CN102128068,

Abstract:
Source: US2009072575A Methods of deploying and stowing a cover coupled to an actuator comprising active material, includes the steps of heating the material with an external heat source, so as to cause a change in physical property and deploying the cover due to the change, and preferably includes accelerating the heating of the material by focusing the energy of the source with a lens or prism, engaging the cover with an input device and retracting the cover upon input, releasing stored energy as a result of the change, or further deploying the cover by use of a ratcheting mechanism, use of a timer for delayed actuation, use of a sensor configured to determine a condition, such as an opened door or the presence of an occupant, interconnecting to a windshield wiper, immersing the actuator in a heated fluid, and conduction heating the actuator through contact with a heated panel.

114) Family number: 43748561 (US2009230723A) © PatBase

Title: VEHICLE CLOSURE ASSEMBLY WITH SHAPE MEMORY POLYMER SEAL

Priority: US20080046658 20080312

Family:

Publication number	Publication date	Application number	Application date
CN101531130 A	20090916	CN200910128605	20090312
DE102009012110 A1	20091203	DE200910012110	20090306
US2009230723 AA	20090917	US20080046658	20080312
US7845707 BB	20101207	US20080046658	20080312

Probable Assignee: GM GLOBAL TECHNOLOGY OPERATIONS LLC

Assignee(s):(std)**:** GM GLOBAL TECH OPERATIONS INC

Assignee(s): UNITED STATES DEPARTMENT OF TREASURY ; UAW RETIREE MEDICAL BENEFITS TRUST ; WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; CITICORP USA INC ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED P ; CITICORP USA INC AGENT FOR BANK PRIORITY SECURED PARTIES AS ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED ; CITICORP USA INC AGENT FOR HEDGE PRIORITY SECURED PARTIES AS ; GM GLOBAL TECHNOLOGY OPERATIONS INC

Inventor(s):(std)**:** CHANG HOUNG YUE ; CHANG HUONG YUE ; HUANG YUEH SE J ; PEI CHUNG WANG ; TURNER PHILLIP M ; WANG PEI CHUNG ; YUE CHANG HOUNG

Agent(s): QUINN LAW GROUP PLLC

International class (IPC 8–9): B60J10/08 B60J5/04 (Advanced/Invention); B60J10/00 B60J5/04 (Core/Invention)

CPC: B60J10/80 C08L2201/12

European class: B60J10/08 M08L201/12

US class: 277/628 277/644 277/645 277/646 296/146.9 296/146.900P 49/477.1 52/2.14

Classification Explorer

Cited documents: US7484735 BB, US6966601 BB, US6846034 BA, US6702301 BA, US6098992 A, US5012615 A, US4761917 A, US4579192 A, US3542375 A, US2009255187 AA, US2005275243 AA, US2005230925 AA, US2005212304 AA, US2005206096 AA, US2005206095 AA, US2005199440 AA, US2005198904 AA, US2004100035 AA,

Forward Citations: WO13116121, US9676261, US9382808, US9162644, US8556334, US8215700, US2014203593, US2013312330, EP2910822, CN102686429,

Abstract:
Source: US2009230723A A closure assembly with a shape memory polymer seal is provided for use with a vehicle. The closure assembly includes a frame member configured for attachment to the vehicle body to selectively transition from a closed position to an open position. The seal structure includes a base portion elongated along and attached to a peripheral edge of the frame member or the vehicle body, and a flexible contact portion extending integrally from the base portion and configured for sealing communication with an opposing surface. A thermally–activated smart material (TASM), namely a shape memory polymer member, is disposed inside a cavity within the contact portion. A thermoelectric device is in thermal communication with the TASM, and is characterized by a thermal differential when current flows therethrough. The TASM is activated in response to the thermal differential of the thermoelectric device, thereby altering at least one physical property of the TASM.

0) US2010043297A – ADJUSTABLE GLASS CLAMP FOR CABLE DRIVE WINDOW R...

115) Family number: 44431977 (US2010043297A) © PatBase

Title: ADJUSTABLE GLASS CLAMP FOR CABLE DRIVE WINDOW REGULATORS

Priority: US20080090483P 20080820 US20090544885 20090820

Family:

Publication number	Publication date	Application number	Application date
US2010043297 AA	20100225	US20090544885	20090820
US8453383 BB	20130604	US20090544885	20090820

Probable Assignee: INTEVA PRODUCTS LLC

Assignee(s):(std)**:** BARR GEOFFREY ; FLOWERS KRISTOPHER M ; INTEVA PRODUCTS LLC

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS

Inventor(s):(std)**:** FLOWERS KRISTOPHER M ; BARR GEOFFREY

Agent(s): CANTOR COLBURN LLP

International class (IPC 8–9)**:** A44B21/00 B60J1/16 (Advanced/Invention); B60J1/16 (Core/Invention)

CPC: Y10T24/44026 E05F11/385 E05Y2600/502 E05Y2600/524 E05Y2600/60 E05Y2900/508 E05Y2900/55

European class: E05F11/38B2 P05Y600/502 P05Y600/524 P05Y600/60 P05Y900/508 P05Y900/550

US class: 24/458 24/458S 49/348 49/349 49/372 49/374 49/375 49/375P 49/506 49/506S

Classification Explorer

Cited documents: US7062880 BB, US6854213 BB, US6588152 BB, US6453617 BA, US6425204 BA, US6236176 BA, US6166508 A, US6119403 A, US6050560 A, US5960588 A, US5946860 A, US5765310 A, US5729930 A, US5692273 A, US5537783 A, US5363595 A, US4762904 A, US4648208 A, US2006130407 AA, US2006010775 AA, US2003093960 AA,

Forward Citations: US9666978, US9650825, US8756866, US2016208535, US2012124910,

Abstract:
Source: US2010043297A A window clip for connecting a window to a window lift includes a clip body having a generally U–shaped profile and a window lift connector attached to the clip body. The clip body includes a pair of generally opposed side walls connected at a closed bottom portion with an opening opposite therefrom, each opposed side wall having an inner face and having a single concave curvilinear surface on the inner face. An isolator is adapted to fit into a clip body. The isolator has a convex curvilinear portions adapted to fit and nest within the concave curvilinear surfaces on each inner face.

0) US2010071979A – ELECTRIC VEHICLE BATTERY SYSTEM

116) Family number: 44662915 (US2010071979A) © PatBase

Title: ELECTRIC VEHICLE BATTERY SYSTEM

Priority:

AU20090293024	20090918	AU20120258299	20121120	EP20090792744	20090918
EP20090792745	20090918	CA20142736889	20140116	CA20092736889	20090918
US20080098724P	20080919	US20090149690P	20090203	JP20110504247	20090918
EP20110181292	20090918	JP20110528021	20090918	JP20110528021T	20090918
EP20110189231	20090918	EP20110161769	20090918	US20090206913P	20090204
US20090166239P	20090402	US20090428932	20090423	US20090563107	20090918
US20090563103	20090918	US20100939045	20101103	US20110112968	20110520
US20110209348	20110812	US20110209351	20110812	US20110181000	20110712
US20130144514	20131230	US20110180000	20110711	US20110495995P	20110611
US20110495994P	20110611	US20110495997P	20110611	US20110495996P	20110611
WO2009US57596	20090918	WO2009US57594	20090918		

Family:

Publication number	Publication date	Application number	Application date
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AU2009293022 AB	20110421	AU20090293022	20090918
AU2009293022 BB	20160225	AU20090293022	20090918
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AU2009293024 BB	20120830	AU20090293024	20090918
AU2012258299 AA	20121213	AU20120258299	20121120
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CA2736889 C	20140318	CA20092736889	20090918
CA2737620 AA	20110317	CA20092737620	20090918
CA2737620 C	20161025	CA20092737620	20090918
CA2837982 AA	20100325	CA20092837982	20090918
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CN102202944 B	20150128	CN200980142582	20090918
CN102203651 A	20110928	CN200980144000	20090918
CN102203651 B	20150211	CN200980144000	20090918
CY1112532 T1	20151209	CY20121100142T	20120210
DE602009003784 D1	20120202	DE200960003784T	20090918
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DE602009016633 D1	20130814	DE200960016633T	20090918
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HK1166292 A1	20130823	HK20120106986	20120717	
HR20120057 T1	20120430	HR20120000057	20120119	
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US2010112843 AA	20100506	US20090563107	20090918	
US2010141206 AA	20100610	US20090563103	20090918	
US2011044791 AA	20110224	US20100939045	20101103	
US2011223459 AA	20110915	US20110112968	20110520	
US2011297470 AA	20111208	US20110209348	20110812	
US2011303509 AA	20111215	US20110209351	20110812	
US2012009804 AA	20120112	US20110181000	20110712	
US2014243637 AA	20140828	US20130144514	20131230	
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US8006793 BB	20110830	US20090428932	20090423	
US8013571 BB	20110906	US20100939045	20101103	
US8164300 BB	20120424	US20090563103	20090918	
US8454377 BB	20130604	US20110181000	20110712	
US8517132 BB	20130827	US20110209348	20110812	
WO10033881 A1	20100325	WO2009US57594	20090918	
WO10033883 A1	20100325	WO2009US57596	20090918	

Probable Assignee: CHARGE PEAK LTD

Assignee(s):(std)**:** FULLAM SCOTT ; DRYSDALE RICHARD LEE ; BOGARD TRAVIS AUSTIN ; LUNA MICHAEL ; DONALDSON THOMAS ALAN ; ALIPHCOM ; BETTER PLACE GMBH ; HEICHAL YOAV ; ROBINSON JEREMIAH ; RAHMAN HOSAIN SADEQUR ; UTTER II MAX EVERETT ; RENAULT SAS ; AGASSI SHAI ; AGASSI TAL

Assignee(s): AGGASI SHAI ; HEICHIL YOAV ; CHARGE PEAK LTD ; BLACKROCK ADVISORS LLC ; CHARGE PEAK LTD ROAD TOWN

Inventor(s):(std)**:** AGASSI TAL T ; AGGASI SHAI ; BOGARD TRAVIS AUSTIN ; DONALDSON THOMAS ALAN ; DRYSDALE RICHARD LEE ; FULLAM SCOTT ; HEICHAL YOAV ; HEICHAL YOAV Y ; HEICHIL YOAV ; LUNA MICHAEL ; RAHMAN HOSAIN SADEQUR ; ROBINSON JEREMIAH ; SHAI AGASSI ; TAL AGASSI ; AGASSI SHAI ; AGASSI SHAI S

; AGASSI TAL ; UTTER II MAX EVERETT ; YOAV HEICHAL

Inventor(s): AGASSI TAL HOD HASHARON ; AGASSI SHAI PALO ALTO ; THE DESIGNATION OF THE INVENTOR HAS NOT YET...

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FREEHILLS PATENT ATTORNEY S; FPA PATENT ATTORNEYS PTY LTD; FASKEN MARTINEAU DUMOULIN LLP; MARKS AND CLERK LUXEMBOURG LLP; PALMER JONATHAN R; REINHOLD COHN AND PARTNERS; MORGAN LEWIS AND BOCKIUS LLP; GREENBERG TRAURIG LLP; MORRIS ELIZABETH M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B5/00 A61B5/145 B23P19/04 B60J5/00 B60K B60K1/04 B60L B60L1/00 B60L11/18 B60L3/00 B60P1/04 B60R16/04 B60S3/00 B60S3/04 B60S5/00 B60S5/06 B65F9/00 B65G1/00 B65G15/20 B65G37/00 B65G67/00 E04H5/06 E05D15/06 E05F11/54 E05F15/10 E06B3/00 E06B3/46 F16M13/00 G02B6/38 H01M2/10 H01R13/52 H01R13/62 H01R13/631 H01R13/64 H01R24/76 H01R33/00 H02G3/00 H02J7/00 (Advanced/Invention); B65G1/04 (Advanced/Non–invention); B23P19/04 B60J5/00 B60K1/00 B60K1/04 B60L11/00 B60L11/18 B60R16/04 B60S5/00 E04H5/00 E05F11/00 E05F15/10 E06B3/00 G02B6/38 H01M2/10 H01R13/62 H02J7/00 (Core/Invention); B60K B60L B60S E04H G02B H02J (Subclass/Invention)

CPC: G02B6/3817 B60K2001/0438 B60L11/1827 B60L11/1838 B60L11/1874 B60L2220/30 Y02T90/125 Y02T90/163 A61B5/0002 A61B5/14532 A61B5/411 A61B5/7455 A61B5/01 A61B5/02438 A61B5/1112 A61B5/1118 A61B5/112 A61B5/14542 A61B5/4806 A61B5/6801 A61B5/6802 B60K1/04 B60K2001/0472 B60L11/1822 B60L11/185 B60L11/1877 B60L11/1879 B60L2200/26 B60S5/06 H01M2/1083 Y02T10/7005 Y02T10/7011 Y02T10/7016 Y02T10/705 Y02T10/7072 Y02T90/124 Y02T90/128 Y02T90/14 Y02T90/16 Y02T10/92 Y02T90/121 G06F1/3296 A61B5/0004 G06F1/08 Y10T29/49815 Y10T403/24 B60L11/1803 A61B5/0006 A61B5/0008 A61B5/0022 A61B5/6814 A61B5/6822 A61B5/6823 A61B5/6824 A61B5/6828 G01K13/002

European class: B60K1/04 B60L11/18L6 B60L11/18L7C B60L11/18L7J B60L11/18L7J12 B60L11/18M34D B60L11/18M36 B60L11/18M38 B60S5/06 H01M2/10C4C L60K1/04A11 L60K1/04C5 L60L200/26 L60L220/30 S02B6/38D2J Y02E60/12 Y02T10/70B Y02T10/70B2 Y02T10/70B4 Y02T10/70H4 Y02T10/70J Y02T90/12F Y02T90/12H Y02T90/12L Y02T90/14 Y02T90/16 Y02T90/16D

US class: 180/65.1 180/65.21 180/65.210S 180/65.29 180/65.290S 180/68.5 180/68.500P 198/604 248/346.01 248/346.010S 29/426.1 29/426.100S 307/10.1 307/9.1 320/104 320/109 320/109P 403/33 403/33S 414/281 414/288 414/389 414/398 414/401 414/468 414/471 414/512 414/572 414/800 414/800S 414/806 414/806P 429/100 429/100P 429/90 429/90S 429/98 429/98S 439/247 439/299 439/299P 439/34 439/34P 439/374 49/360 49/360S 49/404 49/404S 49/506 49/506S 600/300 600/365 903/904 903/904S

Classification Explorer

Cited documents: WO9821132 A1, WO9601520 A1, WO9428526 A1, WO9426002 A1, WO9411853 A1, WO9409544 A1, WO9308630 A1, WO9308629 A1, WO9302887 A1, WO11128765 A2, WO11058256 A1, WO11058253 A1, WO11012601 A2, WO10150665 A1, WO10124831 A2, WO10122267 A2, WO10122266 A1, WO10094898 A1, WO10094892 A1, WO10076457 A1, WO10040931 A2, WO10015777 A1, WO10004192 A2, WO09156780 A1, WO09113268 A1, WO09109826 A1, WO09068783 A2, WO08073477 A2, WO08073476 A2, WO08073474 A2, WO08073472 A2, WO08073470 A2, WO08073453 A1, WO07045365, USD607831 S1, USD559785 S1, USD522963 S1, USD517591 S1, USD515033 S1, USD434001 S1, USD429622 S1, USD420644 S1, USD415111 S1, USD373192 S1, USD349099 S1, USD314182 S1, USD308267 S1, USD307580 S1, USD299821 S1, USD286854 S1, USD286040 S1, USD274126 S1, USD270831 S1, USD237718 S1, USD235555 S1, US8013571 BB, US8006793 BB, US7993155 BB, US7874057 BA, US7826941 BB, US7602143 BB, US7444192 BB, US7411371 BB, US7400113 BB, US7270045 BA, US7256516 BB, US7201384 BB, US7158008 BB, US7090521 BB, US7090521 B1, US7029040 BB, US7003411 BB, US6927974 BB, US6909287 BB, US6834907 BB, US6747561 BA, US6727809 BA, US6632560 BA, US6539678 BA, US6487477 BA, US6388564 BA, US6371768 BA, US6358075 BA, US6240684 BA, US6208249 BA, US6204505 BA, US6196858 BA, US6177879 BA, US6177879 B1, US6123569 A, US6114632 A, US6094028 A, US6088963 A, US6050835 A, US6014597 A, US6002396 A, US5998963 A, US5992946 A, US5979605 A,

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US9104537, US9070923, US9048484, US9045048, US9038757, US9007020, US8996308, US8996212, US8983657, US8975868, US8974115, US8973254, US8970341, US8963481, US8957626, US8950536, US8939245, US8901861, US8899903, US8890475, US8878487, US8869384, US8862388, US8862304, US8862288, US8827023, US8818601, US8817892, US8798852, US8795876, US8791810, US8791809, US8789634, US8776926, US8776925, US8776905, US8733487, US8729858, US8660692, US8577528, US8573683, US8567855, US8567849, US8560147, US8525475, US8522904, US8517132, US8505662, US8469129, US8464817, US8454377, US8443943, US8435040, US8424960, US8398412, US8397853, US8210301, US8164300, US7942692, US7913788, US7900728, US2017100837, US2017098947, US2016325932, US2016185243, US2016099583, US2016052421, US2016023565, US2015380959, US2015249353, US2015185040, US2015153967, US2015151624, US2015149015, US2015129337, US2015123468, US2015091505, US2015087168, US2015063897, US2015054460, US2015048673, US2015033537, US2015013130, US2014360011, US2014342196, US2014326524, US2014272521, US2014244090, US2014196964, US2014165354, US2014163813, US2014054339, US2014025245, US2014025226, US2014017046, US2014012462, US2013342310, US2013315276, US2013294530, US2013285444, US2013248268, US2013218333, US2013192060, US2013183555, US2013177795, US2013153315, US2013134930, US2013082639, US2013081245, US2013075116, US2013062939, US2013054080, US2013031776, US2013031318, US2013030580, US2013026985, US2013020140, US2013009599, US2013009592, US2012326668, US2012326107, US2012298435, US2012291250, US2012255800, US2012251281, US2012240387, US2012199406, US2012175900, US2012175899, US2012175898, US2012175897, US2012160584, US2012160582, US2012123670, US2012097466, US2012071041, US2012043147, US2012009804, US2011318091, US2011303509, US2011297469, US2011264316, US2011254503, US2011240386, US2011223459, US2011156662, US2011123309, US2011113609, US2011106294, US2011070475, US2011000729, US2010307848, US2010292877, US2010198754, US2010163322, US2010081343, US2009315359, TWI517078, KR20130041476, KR101693889, KR101488708, KR101313275, KR101294726, KR101241166, JP5758051, JP5362930, JP2016531797, JP2014533480, JP2014030859, JP2013241177, JP2013001336, JP2012254012, JP2012029518, FR3035870, FR3028832, FR3019382, FR2988041, FR2978717, FR2977219, FR2966392, FR2964609, FR2961771, EP3157811, EP2973937, EP2927992, EP2832566, EP2783905, EP2724886, EP2688155, EP2679456, EP2605309, EP2605308, EP2551147, EP2463162, EP2454771, EP2454771, EP2407340, EP2402205, DE202012105091, DE102015101556, DE102014226372, DE102014100334, DE102013215968, DE102012219081, DE102012219080, DE102012218809, DE102012208499, DE102012208047, DE102012207033, DE102012202164, DE102012202163, DE102011112572, DE102011102019, DE102011017524, DE102011000482, CN105939886, CN105873792, CN105656150, CN105270354, CN105263740, CN105224808, CN105216635, CN104973025, CN104816645, CN104527616, CN104271377, CN104136286, CN103921770, CN103921769, CN103842219, CN103802798, CN103619642, CN103619642, CN103359077, CN103209871, CN103158681, CN103158681, CN103009981, CN102970322, CN102858570, CN102802985, CN102795205, CN102795205, CN102627066, CN102457079, CN102442280, CN102233827, CN102233827, CN102152731, CN102009584, CN102009584,

Abstract:
Source: US2010071979A The electric vehicle includes a battery pack that can be exchanged at a battery exchange station. At the battery exchange station, an at least partially spent battery pack is exchanged for an at least partially charged battery pack. A battery bay is configured to be disposed at an underside of the electric vehicle. The battery bay includes a frame which defines a cavity. The cavity is configured to at least partially receive the battery pack therein. The battery bay comprises at least one latch rotatably pivoted about an axis substantially parallel with a plane formed by the underside of the vehicle. The latch is configured to lift, retain the battery pack at least partially within the cavity.

0) US2010242373A – RELIEF LIP FOR FLOCKED TAPE BELT SEAL

117) Family number: 46987336 (US2010242373A) © PatBase

Title: RELIEF LIP FOR FLOCKED TAPE BELT SEAL

Priority: US20090415424 20090331 US20090494551 20090630

Family:

Publication number	Publication date	Application number	Application date
CN201729050 U	20110202	CN201020114619U	20100203
US2010242373 AA	20100930	US20090415424	20090331
US2010248643 AA	20100930	US20090494551	20090630
US8127499 BB	20120306	US20090415424	20090331
US8180385 BB	20120515	US20090494551	20090630

Probable Assignee: AT AND T INTELLECTUAL PROPERTY I LP

Assignee(s):(std)**:** AARON JEFFREY A ; AT AND T INTELLECTUAL PROPERTY I ; HEIRTZLER PAUL L ; IACOVONI DONALD P ; FORD GLOBAL TECH LLC ; AT AND T IP I LP ; LIU CHENG P

Assignee(s): FORD GLOBAL TECHNOLOGIES LLC ; AT and T INTELLECTUAL PROPERTY I L P ; AT AND T INTELLECTUAL PROPERTY I LP

Inventor(s):(std)**:** HEIRTZLER PAUL L ; IACOVONI DONALD P ; LIU CHENG P ; AARON JEFFREY A ; IAKOVONY DONALD P

Inventor(s): DONALD P IAKOVONY ; PAULLHEIRTZLER ; DONALDPIAKOVONY ; PAUL L HEIRTZLER

Agent(s): PRICE HENEVELD COOPER DEWITT AND LITTON LLP FGTL; AT AND T LEGAL DEPARTMENT – T AND W,ATTN: PATENT DOCKETING; PRICE HENEVELD LLP; GREGORY P; TUROCY AND WATSON LLP

International class (IPC 8–9): B60J10/02 B60J10/08 E06B3/00 E06B7/16 H04B7/00 H04B7/005 (Advanced/Invention); E06B3/00 E06B7/16 H04B7/005 (Core/Invention)

CPC: H04L1/0002 H04L1/002 H04L1/0022 H04L1/0025 Y02B60/31 B60J10/75

European class: B60J10/04B H04L1/00A1 H04L1/00A8S1 H04L1/00A8U T04L1/00A9A Y02B60/31

US class: 370/329 455/450 455/452.2 455/509 455/68 455/68P 49/441 49/475.1 49/490.1 49/495.1 49/495.100P 49/506 49/506S 709/233 709/233S

Classification Explorer

Cited documents: WO07057766 A1, WO0117809 A1, US7277443 BB, US7237359 BB, US6681526 BB, US6652952 BB, US6409251 BA, US6279987 BA, US6141854 A, US6119406 A, US5846463 A, US5775030 A, US5544448 A, US5414961 A, US5010689 A, US4604830 A, US2010011671 AA, US2009082059 AA, US2008302022 AA, US2008268862 AA, US2008192710 AA, US2007251152 AA, US2007230395 AA, US2007101657 AA, US2005227698 AA, US2002184826 AA, US2001025454 AA, US2001001916 AA, GB2388866 A1, ES2244360 AA,

Forward Citations: WO14023351, WO13001547, US9745798, US9686164, US9674718, US9669806, US9667744, US9656539, US9503393, US9450616, US9413848, US9386597, US9357021, US9313728, US9282134, US9277422, US9270725, US9258734, US9198211, US9113356, US8989034, US8982754, US8971243, US8892731, US8892113, US8880689, US8474188, US8459723, US8333423, US8264978, US2016044700, US2015304737, US2015266366, US2015237105, US2015208260, US2015162937, US2015138982, US2015063103, US2015043336, US2014162666, US2014126502, US2014082203, US2014071840, US2013322366, US2013155863, US2013054791, US2013028113, US2012320744, US2012304543, US2012221682, US2012209582, US2012150936, US2012102184, US2012099429, US2012036788, US2011188485, US2011188420, US2011149775, US2011075605, US2010164248, US2009121517, FR3012052, FR3002883,

Abstract:
Source: US2010242373A A belt seal structure for engaging a glass window of an automobile. Included is an inner belt seal and an outer belt seal, both the inner and outer belt seals engageably attached to at least one flange of an automobile door frame. Also included is a plurality of sealing lips connected to and extending away from the inner and outer belt seals, where a surface portion of the sealing lips contact the glass window. The contacting surface portion is covered with the low friction material. Further included is a relief lip of at least one of the sealing

lips. The relief lip is located proximate a substantially curved contacting surface portion of the sealing lip, where the low friction material extends to cover a surface of the relief lip.

0) FR2955293A – UPPER DECK FOR VEHICLES E.G. CARAVAN, HAS PARAP...

118) Family number: 49333174 (FR2955293A) © PatBase

Title: UPPER DECK FOR VEHICLES E.G. CARAVAN, HAS PARAPETS COMPRISING SUPPORT BARS THAT ARE CONNECTED TO FLOOR BY FLEXIBLE WALL ASSOCIATED WITH STORAGE UNITS AND BY RETRACTABLE SUPPORT AND GUIDANCE UNITS WITH LOCKING UNITS

Priority: FR20100000219 20100119

Family:

Publication number	Publication date	Application number	Application date
FR2955293 A1	20110722	FR20100000219	20100119

Probable Assignee: GILBERT CAPY

Assignee(s):(std)**:** CAPY GILBERT ; COQUILLAT JEAN ; COQUILLAT THIERRY

Assignee(s): GILBERT CAPY ; JEAN COQUILLAT ; THIERRY COQUILLAT

Inventor(s):(std)**:** CAPY GILBERT ; COQUILLAT JEAN ; COQUILLAT THIERRY

Inventor(s): GILBERT CAPY ; JEAN COQUILLAT ; THIERRY COQUILLAT

Agent(s): GILBERT CAPY

International class(IPC 8–9)**:** B60J7/06 (Advanced/Invention)

CPC: B60P3/36 B60R3/005 B60R9/045

European class: B60P3/36 B60R3/00B B60R9/045

Classification Explorer

Cited documents: US2387779 A, US2008149675 AA, DE4038081 A1,

Forward Citations: GB2503733,

Abstract:
The deck (1) has a roof (5) to which a floor (2) is integrated. The floor is bordered on all its circumference of retracted parapets. The floor comprises load distribution units distributing loads on whole or a part of the roof. The parapets are spreaded and retracted using handling units (25) actuated from a ground. Support bars (24) are connected to the floor by a flexible wall (22) e.g. net, film and fabric, associated with storage units and by retractable support and guidance units with locking units (29).

0) US2012320621A – LUMINOUS VEHICLE GLAZING AND MANUFACTURE THEREO...

119) Family number: 49371396 (US2012320621A) © PatBase

Title: LUMINOUS VEHICLE GLAZING AND MANUFACTURE THEREOF

Priority: EP20110705921 20110124 FR20100050521 20100126 WO2011FR50125 20110124

Family:

Publication number	Publication date	Application number	Application date
CN102822007 A	20121212	CN201180016078	20110124
CN102822007 B	20160914	CN201180016078	20110124
DE602011004162 D1	20140206	DE201160004162T	20110124
EA025847 B1	20170228	EA20120090691	20110124
EA201290691 A1	20130228	EA20120090691	20110124
EP2528776 A1	20121205	EP20110705921	20110124
EP2528776 B1	20131211	EP20110705921	20110124
ES2445020 T3	20140227	ES20110705921T	20110124
FR2955539 A1	20110729	FR20100050521	20100126
FR2955539 B1	20160325	FR20100050521	20100126
IN07224CN2012 A	20160318	IN2012CN07224	20120821
JP2013517989 T2	20130520	JP20120550495T	20110124
JP5802683 B2	20151028	JP20120550495T	20110124
KR20120120950 A	20121102	KR20127022229	20110124
PT2528776 T	20140130	PT20110705921T	20110124
US2012320621 AA	20121220	US20110575406	20110124
US8829539 BB	20140909	US20110575406	20110124
WO11092419 A1	20110804	WO2011FR50125	20110124

Probable Assignee: SAINT GOBAIN

Assignee(s):(std)**:** GRANDGIRARD BASTIEN ; KLEO CHRISTOPHE ; RICHARD ALEXANDRE ; SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; VERRAT DEBAILLEUL ADELE ; SAINT GOBAIN SA

Inventor(s):(std)**:** VERRAT DEBAILLEUL ADELE ; VERRAT ADELE ; RICHARD ALEXANDRE ; KLEO CHRISTOPHE ; GRANDGIRARD BASTIEN

Inventor(s): ADELE VERRAT ; CHRISTOPHE KLEO ; BASTIEN GRANDGIRARD ; ALEXANDRE RICHARD ; ADELE VERRAT DEBAILLEUL

Agent(s): BOCKHORNI AND KOLLEGEN PATENT U RECHTSANWAELTE; RIBEAUDEAU MARION CHRISTINE; DE ELZABURU ALBERTO; SAINT GOBAIN RECHERCHE; KAWAGUTI AND PARTNERS; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B23P11/00 B23P17/04 B60J1/00 B60Q1/24 B60Q3/00 B60Q3/02 B61D29/00 B63B45/02 B64D47/02 F21V13/12 F21V17/12 F21V21/088 F21V31/00 F21V8/00 F21V9/16 G02B6/00 H01L21/00 H01L27/15 (Advanced/Invention)

CPC: Y10T29/49826 Y10T29/4998 B32B2369/00 B32B17/10036 B32B17/10018 B32B17/10293 B32B17/10541 B32B17/10761 B60Q1/268 B60Q3/208 G02B6/0015 G02B6/005 G02B6/0068 G02B6/0073

European class: B32B17/10C2 B32B17/10C4 B32B17/10G28 B60Q1/26J8 B60Q1/30B B60Q3/02B2 G02B6/00L6I4 G02B6/00L6O8 L32B369/00 S02B6/00L6S2 S02B6/00L6S6

US class: 257/82 29/428 29/527.1 362/470 362/477 362/478 362/485 362/487 362/510 362/558 438/31

Classification Explorer

Cited documents: WO08090646 A1, WO06137660 A2, WO06128941 A2, WO0190787 A1, US6305109 BA, US6131563 A, US4960631 A, US2010073959 AA, US2009174300 AA, US2002007576 AA, JP2009545488 T2, JP2009545488, JP2006298061 A2, JP2006298061, FR2895781 A1, EP1154199 A1, CN201017097 Y, CN1379267 A, CN1285525 A, CN101589267 A,

Forward Citations: WO17125285, WO16156720, WO16113027, WO14167291, WO14060409, WO14037643, WO13167832, WO13153303, WO13102719, WO13079832, WO13055841, WO13017790, US9746600, US9704422, US9694896, US9664835, US9403477, US9397075, US9249946, US9221393, US9180565, US9109773, US9093003, US9059378, US9006751, US2017232824, US2017117443, US2016305644, US2015247968, US2015210040, US2015202846, US2015160400, US2015003088, US2014369063, US2014254186, US2014240998, US2014204601, US2014140090, US2014140084, US2014003075, US2013299856, US2013033894, US2012242023, JP6208688, JP6166282, JP2015527721, JP2015525429, JP2015525170, JP2015520060, JP2015517171, JP2015508359, JP2014534117, ITMO20120172, FR2994889, FR2993553, FR2990379, FR2989176, FR2989041, FR2987323, FR2980833, FR2978379, EA027798, EA027367, DE202015106738, DE102016100772, DE102016001629, CN104619491, CN104271347, CN104203650, CN104203650, CN103260872, CN103260872,

Abstract:
Source: US2012320621A A luminous vehicle glazing, containing: a first sheet containing a mineral or an organic glass having a first main face, a second main face, and an injection edge; a peripheral light source with an emitting face, which faces the injection edge; a guided−light extracting element; a peripheral functional element, bonded to the first sheet, which is fluid−tight, including a cavity for placing the peripheral light source; a covering element, which covers the cavity and the peripheral light source, which is fluid−tight, and which is selected from i) a cap combined with an interfacial element, for interfacial fluid−tightness or ii) a fluid−tight sealing mastic covering the peripheral light source and sealing the peripheral functional element. In addition, a method of manufacturing the luminous vehicle glazing.

0) US2013033894A – LUMINOUS VEHICLE GLAZING AND MANUFACTURE THEREO...

120) Family number: 49371777 (US2013033894A) © PatBase

Title: LUMINOUS VEHICLE GLAZING AND MANUFACTURE THEREOF

Priority: EP20110736672 20110124 FR20100050526 20100126 WO2011FR50126 20110124

Family:

Publication number	Publication date	Application number	Application date
CN103025580 A	20130403	CN201180016079	20110124
CN103025580 B	20160824	CN201180016079	20110124
DE602011021838 D1	20160121	DE201160021838T	20110124
EA026376 B1	20170428	EA20120090695	20110124
EA201290695 A1	20130228	EA20120090695	20110124
EP2528777 A2	20121205	EP20110736672	20110124
EP2528777 B1	20151209	EP20110736672	20110124
ES2560328 T3	20160218	ES20110736672T	20110124
FR2955530 A1	20110729	FR20100050526	20100126
FR2955530 B1	20151120	FR20100050526	20100126
IN07225CN2012 A	20160318	IN2012CN07225	20120821
JP2013517990 T2	20130520	JP20120550496T	20110124
JP5802684 B2	20151028	JP20120550496T	20110124
KR20120120949 A	20121102	KR20127022227	20110124
TR201600437 T4	20160121	TR20160000437T	20110124
US2013033894 AA	20130207	US20110575407	20110124
US9006751 BB	20150414	US20110575407	20110124
WO11092420 A2	20110804	WO2011FR50126	20110124
WO11092420 A3	20121220	WO2011FR50126	20110124

Probable Assignee: SAINT GOBAIN

Assignee(s):(std)**:** GRANDGIRARD BASTIEN ; KLEO CHRISTOPHE ; RICHARD ALEXANDRE ; SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; VERRAT DEBAILLEUL ADELE ; SAINT GOBAIN SA

Inventor(s):(std)**:** GRANDGIRARD BASTIEN ; KLEO CHRISTOPHE ; RICHARD ALEXANDRE ; VERRAT ADELE ; VERRAT DEBAILLEUL ADELE

Inventor(s): ADELE VERRAT ; ALEXANDRE RICHARD ; BASTIEN GRANDGIRARD ; CHRISTOPHE KLEO

Agent(s): BOCKHORNI AND KOLLEGEN PATENT U RECHTSANWAELTE; RIBEAUDEAU MARION CHRISTINE; DE ELZABURU ALBERTO; SAINT GOBAIN RECHERCHE; KAWAGUTI AND PARTNERS; ELISAVET YAKOVIDIS CINLEMEZ; OBLON MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B32B17/10 B60J1/00 B60Q1/24 B60Q1/26 B60Q3/00 B60Q3/02 F21S2/00 F21S8/10 F21V8/00 G02B6/00 H01L21/00 H01L27/15 (Advanced/Invention); F21Y101/02 (Advanced/Non–invention)

CPC: B60Q1/268 B32B17/10036 B32B17/10541 B32B17/10761 B60Q3/208 G02B6/0091 G02B6/0095

European class: B32B17/10C4 B32B17/10E50 B60Q1/26J8 B60Q3/02B2 G02B6/00L6U14 G02B6/00L6U6R

US class: 257/82 362/602 438/31

Cited documents: WO08090646 A1, WO06137660 A2, WO06128941 A2, WO0190787 A1, US6305109 BA, US6131563 A, US4960631 A, US2012320621 AA, US2010073959 AA, US2009225566 AA, US2009225565 AA, US2009174300 AA, JP2009545488 T2, JP2009545488, JP2006298061 A2, JP2006298061, FR2895781 A1, EP1154199 A1, CN101589267 A, CN101336382 A,

Forward Citations: WO17006097, WO14067745, WO13153303, WO13121134, WO13110885, WO13093301, WO13017790, US9797575, US9796325, US9796304, US9789810, US9782504, US9771019, US9764686, US9758090, US9758088, US9751458, US9738219, US9714749, US9707887, US9694743, US9694739, US9688215, US9688192, US9688190, US9688189, US9688186, US9682651, US9682649, US9664354, US9663967, US9656598, US9649877, US9625115, US9623797, US9616823, US9613549, US9604569, US9604568, US9604567, US9599306, US9598632, US9593820, US9587967, US9587800, US9586523, US9586519, US9586518, US9583968, US9573520, US9573519, US9573518, US9573517, US9573516, US9568180, US9539941, US9539940, US9539939, US9538874, US9499113, US9499096, US9499094, US9499093, US9492575, US9487135, US9397075, US9291325, US9249946, US9221393, US9109773, US2015273092, US2015003088, US2014241006, US2014204601, JP6208688, JP6166282, JP2015517171, JP2015508359, ITPD20110336, GB2547233, FR3004237, FR2986854, FR2986186, FR2984251, FR2978379, EP2584250, EA027798, EA027165, EA025664, CN104781061, CN104781061, CN104093598,

Abstract:
Source: US2013033894A A luminous vehicle glazing containing: a first sheet having a first and a second main face; a peripheral light source, the emitting face facing an injection side, which is a side of the second face; a surface diffusion extractor, which extracts the guided light via the first and/or the second main face, or a volume diffusion extractor in the first sheet; a fluid–tight cap, which covers the peripheral light source and is impermeable to liquid water or water vapor, wherein the cap is a facial cap, faces the second face, joined by a fastening element, and associated with an interfacial sealing element.

0) US2013055642A – DOOR GLASS OVER–CLOSING

121) Family number: 45437211 (US2013055642A) © PatBase

Title: DOOR GLASS OVER–CLOSING

Priority: EP20110713720 20110317 GB20100004472 20100317 WO2011EP54081 20110317

Family:

Publication number	Publication date	Application number	Application date
DE602011010113 D1	20141106	DE201160010113T	20110317
EP2533992 A1	20121219	EP20110713720	20110317
EP2533992 B1	20140924	EP20110713720	20110317
GB201004472 A0	20100505	GB20100004472	20100317
US2013055642 AA	20130307	US20110634405	20110317
US8887445 BB	20141118	US20110634405	20110317
WO11113911 A1	20110922	WO2011EP54081	20110317

Probable Assignee: MCLAREN AUTOMOTIVE LTD

Assignee(s):(std)**:** MCLAREN AUTOMOTIVE LTD ; PATTERSON NEIL ; TRYSOME LTD

Assignee(s): MCLAREN AUTOMOTIVE LIMITED ; TRYSOME LIMITED ; MCLAREN AUTOMOTIVE LTD WOKING

Inventor(s):(std)**:** PATTERSON NEIL

Agent(s): WESTPHAL MUSSGNUG AND PARTNER PATENTANWAELTE MIT BESCHRAENKTER BERUFSHAFTUNG; SLINGSBY PHILIP ROY; SLINGSBY PARTNERS LLP; DERGOSITS AND NOAH LLP; SLINGSBY PHILIP ROY ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/17 B60J10/06 B60J10/79 B60J5/04 G03G15/06 (Advanced/Invention)

CPC: E05Y2400/358 E05Y2900/508 E05Y2900/55 G03G15/06 E05F15/695 E05F15/70

European class: G03G15/06

US class: 49/131 49/349 49/475 49/475.1 49/502

Classification Explorer

Cited documents: US8291645 BB, US7980621 BB, US7362068 BB, US6729683 BB, US6364397 BA, US6260906 BA, US5982124 A, US5960588 A, US5489104 A, US5045765 A, US4835449 A, US4730414 A, US2012136532 AA, US2005229497 AA, US2002108310 AA, JP57134321 A2, DE4233267 A1, DE19811362 A1,

DE102007031409 A1

DE102006028051 A1

DE102006028050 A1

Forward Citations: US9707831, US9556661, US9302566, US9140047, US8827027, US2015101249, US2013283692, US2012234621,

Abstract:
Source: US2013055642A A vehicle comprises an outer shell having an opening and a cover for the opening. The cover comprises: a housing, a window and a motor for moving the window. The motor management unit stores three predetermined positions of the window relative to the housing. When the housing is engaged with the opening: in the first predetermined position the window is resiliently retained within the seal and the cover can be released from the opening without damage to the cover; in the second predetermined position the window does not engage with the seal; and in the third predetermined position the window extends into the seal and the window is prevented from being released from the seal without the window first being retracted to the first or second positions. The motor management unit causes the motor to extend the window to the third predetermined position

when the vehicle exceeds a predetermined speed.

0) US2012081915A – VEHICLE EXTERIOR MIRROR SYSTEM WITH LIGHT MODUL...

122) Family number: 50900399 (US2012081915A) © PatBase

Title: VEHICLE EXTERIOR MIRROR SYSTEM WITH LIGHT MODULE

Priority: US20100388747P 20101001 US20110249433 20110930 US20120645959P 20120511 US20130891613 20130510 US20120738094P 20121217 US20120645962P 20120511 US20130891619 20130510 US20150605151 20150126

Family:

Publication number	Publication date	Application number	Application date
US2012081915 AA	20120405	US20110249433	20110930
US2013242586 AA	20130919	US20130891619	20130510
US2013283693 AA	20131031	US20130891613	20130510
US2015167372 AA	20150618	US20150605151	20150126
US8764256 BB	20140701	US20110249433	20110930
US8938914 BB	20150127	US20130891613	20130510

Probable Assignee: MAGNA MIRRORS OF AMERICA INC

Assignee(s):(std)**:** DEUEL ERIC S ; FOOTE KEITH D ; MAGNA MIRRORS OF AMERICA INC

Inventor(s):(std)**:** DEUEL ERIC S ; FOOTE KEITH D ; TOOKER TROY F ; SNIDER DARIN J ; HUIZEN GREGORY A ; HULST MICHAEL J

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

International class (IPC 8–9)**:** B60J1/00 B60J1/18 B60Q1/12 B60Q1/26 B60R1/06 B60R1/12 E05F11/48 F21S8/10 (Advanced/Invention); B60R1/12 (Advanced/Non–invention)

CPC: B60R1/12 B60Q1/2665 B60Q2400/20 B60R1/1207 B60R2001/1253 F21S48/215 B60Q1/18 B60Q1/22 B60Q1/245 B60Q1/2696 B60Q1/323 B60Q1/38 E05F15/643 E05Y2201/66 E05Y2900/55 B60J1/1853 F21S48/211 F21S48/2237 F21S48/2262 F21S48/2268 F21S48/2281 F21S48/328

European class: B60R1/12 L60R1/12A L60R1/12G

US class: 362/494 362/494P 362/529 362/545 49/123 49/127 49/128 49/352 49/380 49/413

Classification Explorer

Cited documents: WO11028686, WO08051910, WO05035308, USRE30663 E, US957728 A, US8938914 BB, US8402695 BB, US8287164 BB, US8274226 BA, US8272168 BB, US8250812 BB, US8151519 BB, US8127498 BB, US8069615 BB, US8058977 BB, US8042664 BB, US7988305 BB, US7963070 BB, US7944371 BB, US7934342 BB, US7900863 BA, US7878693 BB, US7871272 BB, US7748856 BB, US7708438 BB, US7635210 BB, US7626749 BB, US7608949 BB, US7607809 BB, US7581859 BB, US7524092 BB, US7492281 BB, US7438453 BB, US7407203 BB, US7400435 BB, US7395631 BB, US7350949 BB, US7344284 BB, US7334923 BB, US7333021 BB, US7289037 BB, US7274501 BB, US7270452 BB, US7261446 BB, US7259359 BB, US7258471 BB, US7255464 BB, US7255451 BB, US7244054 BB, US7219470 BB, US7210798 BB, US7210715 BB, US7199317 BB, US7195381 BB, US7192171 BB, US7188981 BB, US7188963 BB, US7186118 BB, US7184190 BB, US7175324 BB, US7175321 BA, US7155863 BB, US7155862 BB, US7126456 BB, US7121688 BB, US7104675 BB, US7097312 BB, US7091836 BB, US7073293 BB, US7065439 BB, US7055997 BB, US7051478 BB, US7049940 BB, US7010883 BB, US7005959 BB, US7003916 BB, US6981789 BB, US6977619 BB, US6969101 BB, US6955009 BB, US6926432 BB, US6926431 BA, US6924735 BB, US6907643 BB, US6871887 BB, US6854870 BB, US6848818 BB, US6848816 BB, US6847289 BB, US6824281 BB, US6812823 BB, US6809630 BA, US6793385 BB, US6779372 BB, US6766617 BB, US6742819 BB, US6717712 BB, US6710471 BA, US6691464 BB, US6690268 BB, US6669267 BA, US6623124 BB, US6616313 BB, US6598931 BB, US6591552 BA, US6582109 BB, US6577228 BA, US6568839 BA, US6561685 BB, US6561667 BB, US6550103 BB, US6525659 BB, US6523888 BA, US6522451 BA, US6490832 BA, US6477464 BB, US6416209 BA, US6416208 BB, US6396408 BB, US6390529 BA, US6349450 BA, US6347880 BA, US6328243 BA, US6324788 BA, US6315419 BA, US6304168 BA, US6299333 BA, US6293609 BA, US6291905 BA, US6280069 BA, US6276821 BA, US6273579 BA, US6260991 BA, US6247343 BA, US6244734 BA, US6238074 BA, US6227689 BA, US6225904 BA, US6223470 BA, US6217201 BA, US6198409 BA,

US6193399 BA, US6186650 BA, US6176602 BA, US6176602 B1, US6174016 BA, US6174016 B1, US6168302 BA, US6168302 B1, US6164805 A, US6161894 A, US6158869 A, US6152590 A, US6149287 A, US6139172 A, US6125585 A, US6119402 A, US6119401 A, US6112462 A, US6086229 A, US6086138 A, US6070998 A, US6062613 A, US6049271 A, US6038819 A, US6026611 A, US6014840 A, US6002341 A, US5997793 A, US5996284 A, US5953887 A, US5938321 A, US5929786 A, US5890321 A, US5853895 A, US5836110 A, US5823654 A, US5822922 A, US5815018 A, US5799449 A, US5799444 A, US5786772 A, US5784833 A, US5724771 A, US5724769 A, US5716536 A, US5711112 A, US5671996 A, US5669699 A, US5617675 A, US5613323 A, US5581230 A, US5572376 A, US5542214 A, US5531046 A, US5525401 A, US5522191 A, US5505023 A, US5499169 A, US5497306 A, US5497305 A, US5473840 A, US5467560 A, US5466911 A, US5442880 A, US5371659 A, US5367827 A, US5363596 A, US5345717 A, US5333411 A, US5308247 A, US5297010 A, US5294168 A, US5245788 A, US5233375 A, US5228740 A, US5146712 A, US5046283 A, US5040103 A, US4995195 A, US4972173 A, US4970911 A, US4934098 A, US4920698 A, US4883940 A, US4788630 A, US4785583 A, US4738052 A, US4723809 A, US4674231 A, US4635398 A, US4611849 A, US4606159 A, US4552611 A, US4519443 A, US4458445 A, US4450346 A, US4415196 A, US4410843 A, US4388522 A, US4244774 A, US4171594 A, US4158270 A, US4137447 A, US4124054 A, US4081926 A, US4065848 A, US4041301 A, US4023008 A, US3995142 A, US3964068 A, US3911245 A, US3898427 A, US3893260 A, US3715707 A, US3508361 A, US3379859 A, US3237250 A, US3177989 A, US2962773 A, US2912714 A, US2858408 A, US2762675 A, US2014047772 AA, US2013255156 AA, US2013174488 AA, US2012139289 AA, US2012117880 AA, US2012091114 AA, US2012091113 AA, US2012062743 AA, US2011030276 AA, US2010321946 AA, US2010321945 AA, US2010263291 AA, US2010263290 AA, US2010240229 AA, US2010182143 AA, US2010154312 AA, US2010146859 AA, US2010122497 AA, US2009322705 AA, US2009257240 AA, US2009217595 AA, US2009161379 AA, US2009115631 AA, US2009073709 AA, US2009040306 AA, US2008202032 AA, US2008155902 AA, US2008127563 AA, US2008122262 AA, US2008061933 AA, US2008060275 AA, US2008018127 AA, US2007277443 AA, US2007209283 AA, US2007206383 AA, US2007203618 AA, US2007182527 AA, US2007097698 AA, US2006226953 AA, US2006130405 AA, US2006107600 AA, US2006061008 AA, US2006038418 AA, US2006032140 AA, US2005117364 AA, US2005105299 AA, US2005036329 AA, US2004233677 AA, US2004098919 AA, US2004065018 AA, US2004065017 AA, US2004020131 AA, US2003213179 AA, US2003188490 AA, US2003174499 AA, US2003140562 AA, US2003074842 AA, US2002105432 AA, US1204702 A, GB2342212, GB2341365, EP1738959, EP1690736, EP1304260, EP1284335, DE10212794,

Forward Citations: WO16147154, WO16067185, US9783100, US9782613, US9752746, US9751459, US9731580, US9676336, US9642187, US9579956, US9579955, US9527431, US9475364, US9421902, US9242533, US9174515, US9041552, US8915018, US8881458, US8813425, US2017114978, US2016347240, US2016207450, US2016121699, US2016102833, US2016089963, US2016061401, US2015353000, US2015307020, US2015298598, US2015203025, US2015167372, US2015151674, US2015092438, US2015052814, US2015049503, US2014218946, US2014078291, US2013255158, US2013176145, JP6205745, JP2014160567, EP3173818, EP2806288, CN105599684, CN104812622, CN103786650,

Abstract:
Source: US2012081915A A lighted exterior rearview mirror system of a vehicle includes an exterior rearview mirror assembly and a light module disposed at the exterior rearview mirror assembly. The light module includes a plurality of illumination sources operable to emit light. The illumination sources are individually controlled responsive to said the input to provide a customized illumination beam emanating from the exterior rearview mirror assembly. The system may include a control that is responsive to the user input to selectively individually energize the light emitting diodes, and the control may individually adjust a duty cycle of each of the light emitting diodes responsive to the user input. The light module may include a ground illumination light source, a backup light source and a turn signal indicator.

0) DE202012012701U1 – MULTIFUNKTIONALE, AUTOMATISIERENDE, FERNBEDIENB...

123) Family number: 51757174 (DE202012012701U1) © PatBase

Title: MULTIFUNKTIONALE, AUTOMATISIERENDE, FERNBEDIENBARE AUTOSCHEIBENWETTERSCHUTZTECHNOLOGIE

Priority: DE201120109644U 20111228 DE201210021593 20121102 DE201220012701U 20121102 DE201320009773U 20130625 DE201320011174U 20131102 DE201310010530 20130625

Family:

Publication number	Publication date	Application number	Application date
DE102012021593 A1	20130704	DE201210021593	20121102
DE102013010530 A1	20140918	DE201310010530	20130625
DE202011109644 U1	20120830	DE201120109644U	20111228
DE202012012701 U1	20131212	DE201220012701U	20121102
DE202013009773 U1	20140313	DE201320009773U	20130625
DE202013011174 U1	20140807	DE201320011174U	20131102

Probable Assignee: KOLLHOFF STEFAN

Assignee(s):(std)**:** KOLLHOFF STEFAN

Assignee(s): KOLLHOFF

Inventor(s):(std)**:** KOLLHOFF STEFAN

International class(IPC 8–9)**:** B60J1/20 B60J11/08 B60J3/06 B60K16/00 B60L8/00 B60R1/12 B62J17/04 B62J27/00 C03C17/23 E06B9/56 F03D9/00 (Advanced/Invention)

CPC: B60J1/20

European class: B60J1/20

Classification Explorer

Cited documents: DE202009007963 U1

DE102011015158 A1

DE102004021477 A1

Forward Citations: DE202014010276, DE102015001057,

Abstract:
Source: DE202012012701U1 Diese Erfindung berifft ein multifunktionale, automatisierende, fernbedienbare Autoscheibenwetterschutztechnologie (1) insbesondere fuer eine Front–Seiten–Heckscheibe. Ausgebildet mit je einem gegenueberstehenden an jeder Seite eine senkrechte, kreisfoermige, laengliche Achse (2), (3) die durch eine senkrechte, kreisfoermige oeffnung (4) eingeschoben ist. Je an den beiden Enden mit einer Spirale (5), (6), ausgebildet, woran sich je ein kreisfoermiger, zylinderfoermige Einspannkopf (7), (8) angeordnet ist. Die Antriebsspiraleneinspannungstechnik (ASST), (10) ist erfindungsgemaess ausgebildet mit einer Ein–Ausfahrbaren Teleskopvorrichtung (11) mit zwei inbehaltenden Stuetzraedchen (12), (13) an jeder Seite mit zwei inbehaltenden Spiralen (14), (15). Auf der Oberseite sind zwei kreisfoermige, gegenueberstehende Einspannungseinlaesse mit U–foermigen Ausschnitt (31), (32) angesetzt. Ein Gleichstrommotor (24) mit abgestimmten ABlaufraedchen (35) ist ausgebildet mit einer Digitalendemodulationssendefunktechnik (355) dadurch gekennzeichnet dass, erfindungsgemaesse, bevorzugte, herausziehbare, unterteilte, durchsichtige U–Profile (41) die aus glasverstaerkten Kunststoff (144) mit einer Titanlegierung bestehen, ueber neun senkrechte, nebeneinanderlaufende viereckige Einlaesse, Nut (42) hintereinander, hereingeschoben werden in die viereckige Grundflaeche der Autoscheibenwetterschutztechnik (1). Sie besteht aus glasverstaerkten Kunststoff (144) mit einem photochomatischen Toenungseffekt einer Kristallstruktur aus Silberbromid (48), Silberchloridkristallen (49). Die senkrecht laufenden Faltkannten (43) befinden sich zwischen jeden U–Profil (41). Vier Identifikationssensoren (44) sind angeordnet zwischen jeden zweiten senkrechten U–Profil (41). Mit weiteren senkrechten zwischen Abstand fuenf Regentropfensensoren (45) eingesetzt sind, fuenf Solarmodule (46) an den oberen Faltkannten (43) angeordnet. Die Auf–Abwicklungstechnik (50) besteht aus einer senkrechten Verbindungsachse (51) die je an beiden gegenueberstehenden Enden mit einer kreisf. Ablauf–Aufrollfuehrung (52) ausgebildet ist, wobei die untere mit acht kreisf. Durchlassen (53) gekennzeichnet ist ausgebildet mit einem Gewinde (54) fuer ein kreisf. Auffanggefaess (55) zwei zylinderfoermige angeordnete Halterungen mit U–Ausschnitt (56) sind auf den Innenwandungen (58) der kreisf. Ablauf–Aufrollfuehrung (52) angesetzt. Erfindungsgemaess ist ein in der Hoehe verminderter Seitendachpfosten (59) mit einer genialen, beweglichen, konstruktiven, gebogenden Rippenkonstruktion (64) beweglichen, laenglichen Gummikannten (60), (61) angeordnet. Zweckmaessigerweise ist eine zu oeffnende Staukammer (165) mit sortierten Ersatz U–Profile (41) angeordnet im Innenraum der

Fahrerseite. Der Autoinnenseitensonnenschutz (175) aus dem Automobilinnendach besteht aus U−Profilen (360), Solarmodulen (359) mit Chrombeschichtung (163) sechs Faltkannten (43) zusaetzlich mit vier integierten Gummiablaufraedchen (164). An den oberen aussen Wandungen ist ein kreisf. Gewinde (165) ausgebildet mittig angesetzt, vorzugsweise fuer eine biegsame schiebe−zieh Spiralenvorrichtung (164) kreisf. Gummibezug (167) mit zehn inbehaltenden kleinen kreisf. Aluminiumoeffnungen (168) zwei Drehverschluessen (169), (170) wobei an den gegenueberliegenden Enden herausdrehbare, halbkreisfoermige Gummikugeln (176), (177) mit Gewinde angeordnet sind die zu Pufferung dienen. Die mechanische Antriebsache (171) ist ausgebildet mit einem hoehenverstellbaren Antriebszahnraedchen (172). Zweckmaessig ist die versenkbare Emfangsantenne vorteilhaft ausgebildet mit einem zylinderfoermigen Aussentemperaturmesssensor (354) (max. 25 Grad) Aktivierung bei Zentralverriegelung einer Digitalendemodulationsfunkempfangstechn. (177) die... The method involves forming a U−profile (41) from glass reinforced plastic with titanium alloy and photochromatic toning effect of a crystal structure of silver bromide and with silver chloride crystals. A movable vertical side roof post is formed with a curved rib structure. Five raindrop sensors (45) are inserted in spacings. Five solar modules (46) are arranged at upper fold edges. Three charging current transfer contacts are arranged at a power guiding line. A right insertion shaft is formed at a circular travel charge current plug device, which is arranged in an upper unfolded plane. The power guiding line is extended and retracted by rolling function. A direct current motor (24) is equipped with an LED demodulation system. A semiconductor laser is provided with yttrium−aluminum−garnet crystals.

0) US2014117706A – VEHICLE DOOR AND DOOR MODULE

124) Family number: 52534424 (US2014117706A)

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Title: VEHICLE DOOR AND DOOR MODULE

Priority: EP20120793869 20120530 US20110491285P 20110530 WO2012CA00527 20120530 US20130093137 20131129 US20150854454 20150915

Family:

Publication number	Publication date	Application number	Application date
CN103596786 A	20140219	CN201280026926	20120530
CN103596786 B	20160525	CN201280026926	20120530
DE602012018376 D1	20160623	DE201260018376T	20120530
EP2714444 A1	20140409	EP20120793869	20120530
EP2714444 A4	20140910	EP20120793869	20120530
EP2714444 B1	20160511	EP20120793869	20120530
US2014117706 AA	20140501	US20130093137	20131129
US2016001642 AA	20160107	US20150854454	20150915
US9132721 BB	20150915	US20130093137	20131129
WO12162810 A1	20121206	WO2012CA00527	20120530
WO12162810 A9	20131219	WO2012CA00527	20120530

Probable Assignee: MAGNA CLOSURES INC

Assignee(s):(std)**:** FORTIN RAYMOND EDWARD ; MAGNA CLOSURES INC

Assignee(s): MAGNA CLOSURES INC NEWMARKET

Inventor(s):(std)**:** FORTIN RAYMOND EDWARD

Inventor(s): FORTIN RAYMOND EDWARD NEWMARKET

Agent(s): HOESSLE PATENTANWAELTE PARTNERSCHAFT; GOWLING LAFLEUR HENDERSON LLP; GRANT; MILLMAN IP INC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J5/04 B60J5/06 E05B61/00 E05B63/14 E05B65/08 E05B65/12 E05B79/04 E05B79/22 E05B81/20 E05B83/40 E05B85/02 E05F11/48 (Advanced/Invention); E05B63/14 E05B81/20 E05F11/48 (Advanced/Non–invention)

International class (IPC 1–7): E05B65/12

CPC: B60J5/0416 B60J5/0418 B60J5/042 B60J5/06 E05B63/143 E05B79/04 E05B81/20 E05B83/40 E05F11/488 E05Y2201/684 E05Y2800/29 E05Y2900/55 B60J5/0468 B60J5/0401 B60J5/0413 B60J5/0415

US class: 1/1 296/146.16 296/146.5 296/146.6 49/503

Classification Explorer

Cited documents: WO06000082 A1, WO05075226 A1, WO0185477 A1, US8196974 BB, US7854466 BB, US7797882 BB, US7100330 BB, US6854785 BB, US6546674 BA, US6231112 BA, US5902004 A, US5308138 A, US5226259 A, US4882842 A, US2006156631 AA, US2006000082 AA, US2005150166 AA, US2005075226 AA, GB2250534 A1, EP1652706 A1,

DE102006053458 A1

CN201158413 Y,

Forward Citations: WO13083265, US9168815, US9061570, US2016107510, US2015174991, EP3093418,

Abstract:
Source: US2014117706A In an example, a vehicle door module has a carrier carrying a plurality of functional door hardware components. The carrier defines a wet side facing towards a door cavity and a dry side facing away from the door cavity. The door includes an inner door panel having a front pocket and a rear pocket. The carrier includes front and rear latch presenters and carries front and rear door latches on the dry side thereof which seat in the front and rear door pockets. The latches are connected to reinforcement plates which are connected by fasteners at positions surrounding the door pockets thus enabling each latch to be easily accessed for service by simply removing the corresponding reinforcement plate, which may be located under an easily removed interior trim panel.

0) US2013074411A – FUEL COUPLER WITH WIRELESS PORT DOOR UNLATCHING...

125) Family number: 53291340 (US2013074411A) © PatBase

Title: FUEL COUPLER WITH WIRELESS PORT DOOR UNLATCHING ACTUATOR

Priority: US20110540303P 20110928 US20110540441P 20110928 US20120427056F 20120713 US20120427078F 20120713 US20110540549P 20110929 US20110540550P 20110929 US20120654779P 20120601 US20120549185 20120713 US20120589098 20120818 US20120490164 20120606 US20120489617 20120606 US20120482900 20120529 US20120497056F 20120713

Family:

Publication number	Publication date	Application number	Application date
US2013074411 AA	20130328	US20120490164	20120606
US2013074985 AA	20130328	US20120489617	20120606
US2013076059 AA	20130328	US20120482900	20120529
US2013078839 AA	20130328	US20120549185	20120713
US2013078841 AA	20130328	US20120589098	20120818
US8539990 BB	20130924	US20120489617	20120606
US8579635 BB	20131112	US20120549185	20120713
US8627860 BB	20140114	US20120490164	20120606
US8651875 BB	20140218	US20120589098	20120818
US8720968 BB	20140513	US20120482900	20120529
USD694188 S1	20131126	US20120427078F	20120713
USD724031 S1	20150310	US20120427056F	20120713

Probable Assignee: TESLA MOTORS INC

Assignee(s):(std)**:** BAGLINO ANDREW DAVID ; DAI ANDREW ; FERGUSON JOSHUA WILLARD ; KALAYJIAN NICHOLAS ROBERT ; TESLA MOTORS INC ; KOHN SCOTT IRA ; ZALAN DARYL ; NERGAARD TROY ADAM ; MUSK ELON REEVE ; VAN DYKE CHRISTOPHER HUGO

Assignee(s): PNC BANK NATIONAL ASSOCIATION

Inventor(s):(std)**:** BAGLINO ANDREW DAVID ; DAI ANDREW ; FERGUSON JOSHUA WILLARD ; KALAYJIAN NICHOLAS ROBERT ; KOHN SCOTT IRA ; MUSK ELON REEVE ; NERGAARD TROY ADAM ; VAN DYKE CHRISTOPHER HUGO ; ZALAN DARYL

Agent(s): PATENT LAW OFFICE OF DAVID G BECK; J RICHARD

International class (IPC 8–9)**:** B60J10/08 B60J5/00 B60J9/00 B60K15/05 B62D25/00 B65B1/30 B65B3/04 B67C3/02 B67D7/34 E05B65/12 E05C19/16 E05F15/18 E05F15/60 F01M11/04 H01R12/00 H01R13/62 H01R13/627 (Advanced/Invention)

CPC: H01R13/6397 H01R13/631 H01R13/64 E05C19/166 B60K2015/053 B60K2015/0546 B60K2015/0561 B60L2270/147 Y02T10/7005 Y02T90/14 B60L11/1818 F01M11/0458 B60K15/05 B67D7/348 E05B83/34 B60K2015/03197 B60K2015/03203 Y10T70/65 Y10T292/1021 Y10T292/11 Y02T10/7072

US class: 141/192 141/94 141/98 292/144 292/251.5 296/97.22 439/135 439/34 439/345 439/350 439/372 439/528 49/280 49/386 49/394 49/70 70/264 D13/133 D13/146

Locarno class: 13/03

Classification Explorer

Cited documents: USD700143 S1, USD686983 S1, USD677632 S1, USD669033 S1, USD667379 S1, USD667378 S1, USD666152 S1, USD654858 S1, USD636334 S1, USD602433 S1, USD447463 S1, USD361749 S1, US8628225 BB, US8460028 BB, US8382187 BB, US8360117 BB, US8226284 BB, US8215684 BB, US8094017 BB, US8025526 BA, US8000856 BB, US7988453 BB, US7967361 BB, US7671482 BB, US7390222 BB, US7171989 BB, US6834688 BB, US6761194 BA, US6745911 BA, US6739633 BB, US6609738 BA, US6458000 BB, US6408901 BB, US6237647 BA, US6234557 BA, US5836638 A, US5816643 A, US5802894 A, US5751135 A, US5699685 A, US5664811 A, US5637977 A, US5577920 A, US5556284 A, US5536173 A, US5072986 A, US5044678 A, US4917418 A, US4792165 A, US2606772 A, US2014091761 AA, US2013271075 AA, US2013078841 AA, US2013078839 AA, US2013076059 AA,

US2011285165 AA, US2011260684 AA, US2011151693 AA, US2011115239 AA, US2010265033 AA, US2010230979 AA, US2010065147 AA, US2009242291 AA, US2009236440 AA, US2009079225 AA,

Forward Citations: WO15040154, USD798171, USD789883, USD754605, US9787137, US9770996, US9738168, US9718350, US9662990, US9643487, US9597973, US9580940, US9552682, US9533593, US9533510, US9478909, US9472365, US9463702, US9437058, US9424697, US9407024, US9395752, US9390566, US9335179, US9327594, US9293932, US9275505, US9216687, US9193277, US9182244, US9177306, US9177305, US9176680, US9139097, US9129461, US9129272, US9124085, US9123035, US8996308, US8996212, US8933332, US8905768, US8878487, US8862388, US8862304, US8845001, US8740283, US8720968, US8651875, US8579635, US2016060910, US2016013587, US2015375630, US2015258905, US2015194831, US2015158461, US2015048644, US2015015202, US2014291996, US2014176069, US2014167695, US2014146484, US2013326955, US2013234528, US2013175854, US2013152474, US2013095678, US2013078841, US2013078839, GB2542699, CN104375634, CN104375634,

Abstract:
Source: US2013074411A A fuel delivery system and method of use are provided that may be used to open the door covering the charge port of an electric vehicle, or the door covering the fuel filler port of a conventional vehicle. The system includes a fuel coupler (e.g., a charging connector or a gas nozzle) designed to transfer fuel from the source to the vehicle via the vehicle's fuel port. The fuel coupler includes a switch that when toggled, causes a control signal to be wirelessly transmitted over a short distance. Upon receipt of the control signal by a receiver integrated into a vehicle that is in close proximity to the fuel port, an unlatching actuator within the vehicle unlatches the port door, thereby allowing it to open and provide port access.

0) US2013076060A – VEHICLE DOOR

126) Family number: 53292267 (US2013076060A)

© PatBase

Title: VEHICLE DOOR

Priority: JP20110206761 20110922

Family:

Publication number	Publication date	Application number	Application date
JP2013067257 A2	20130418	JP20110206761	20110922
JP5374560 B2	20131225	JP20110206761	20110922
US2013076060 AA	20130328	US20120606532	20120907
US8556332 BB	20131015	US20120606532	20120907

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s):(std)**:** HONDA MOTOR CO LTD ; NAKASHIMA ATSUSHI ; OHKI HITOSHI

Assignee(s): HONDA MOTOR CO

Inventor(s):(std)**:** NAKAJIMA ATSUSHI ; NAKASHIMA ATSUSHI ; OHKI HITOSHI ; OKI HITOSHI

Agent(s): ISONO MICHIZO; WESTERMAN HATTORI DANIELS AND ADRIAN LLP

International class (IPC 8–9): B60J5/00 B60R11/02 B60R16/02 B60R5/04 (Advanced/Invention)

CPC: B60R13/0243 B60R21/0428 B60J5/0416 B60R21/04

US class: 296/146.5 296/146.7 49/502

Classification Explorer

Cited documents: US7370906 BB, US6955392 BB, JP9277832 A2, JP9277832, JP8276735 A2, JP8276735, JP6156082 A2, JP6156082, JP5238263 A2, JP5238263, JP2006282127 A2, JP2006282127, JP1073017 U, JP1073017 U,

Forward Citations: US9731581, US2017080784, US2014208656, JP2016088432,

Abstract:
Source: US2013076060A A vehicle door includes a door main body having a hollow portion, a work hole, a door hole seal that covers the work hole, a door trim, a protruding member provided so as to protrude from the door trim toward the vehicle interior side surface, and a harness routed through the door hole seal to the door trim side. The door hole seal is provided with a general surface, a bulging portion facing the protruding member and bulging from the general surface toward the inside of the hollow portion, and a harness pull–out hole through which the harness is passed. The bulging portion has an inclined surface.

0) US2013276286A – VEHICLE OPENING COVERINGS

127) Family number: 55003671 (US2013276286A) © PatBase

Title: VEHICLE OPENING COVERINGS

Priority: US20120635837P 20120419 US20130826317 20130314

Family:

Publication number	Publication date	Application number	Application date
US2013276286 AA	20131024	US20130826317	20130314

Probable Assignee: PRO TECH IT LLC

Assignee(s):(std)**:** PRO TECH IT LLC

Inventor(s):(std)**:** LATUFF MICHAEL

International class (IPC 8–9)**:** B60J11/06 (Advanced/Invention)

CPC: B60J11/06 Y10T29/49826

US class: 150/166 29/428

Classification Explorer

Cited documents: US7100965 BA, US6588827 BB, US6491335 BA, US6099067 A, US5820196 A, US5788317 A, US5725933 A, US5605369 A, US5415214 A, US5343915 A, US5044688 A, US4763783 A, US4635996 A, US4589459 A, US4531560 A, US4098536 A, US2010007169 AA, US2009301671 AA, US2007107762 AA,

Forward Citations: WO17003880, US9770938, US2016167498, US2016137370, US2015360817,

Abstract:
Source: US2013276286A Vehicle coverings can be used to temporarily cover one or more openings of a vehicle so as to prevent undesired materials from entering the vehicle. The coverings can include magnets, which can automatically couple the covering with the vehicle in a releasable fashion. Some coverings include suction cups to secure portions of the coverings to nonmagnetic portions of the vehicle.

0) AU2014100062A – VEHICLE OPENING COVERINGS

128) Family number: 55899344 (AU2014100062A) © PatBase

Title: Vehicle Opening Coverings

Priority: AU20140100062 20140124

Family:

Publication number	Publication date	Application number	Application date
AU2014100062 AD	20140306	AU20140100062	20140124

Probable Assignee: GPI AUTOMOTIVE PRODUCTS PTY LTD

Assignee(s):(std)**:** GPI AUTOMOTIVE PRODUCTS PTY LTD

Inventor(s):(std)**:** LATUFF MICHAEL

Agent(s): MORCOM PERNAT

International class (IPC 8–9): B60J1/00 B60J11/00 B60S5/00 (Advanced/Invention)

Classification Explorer

Abstract:
Source: AU2014100062A Vehicle coverings which can be used to temporarily cover one or more openings of a vehicle so as to prevent undesired materials from entering the vehicle. 5 The coverings can include magnets, which can automatically couple the covering with the vehicle in a releasable fashion. Some coverings include suction cups to secure portions of the coverings to nonmagnetic portions of the vehicle. 101 101 101lo 101 01 1 0110

129) Family number: 56087312 (EP2722208A2) © PatBase

Title: NUTZFAHRZEUGAUFBAU MIT EINEM HOEHENVERSTELLBAREN DACH UND NUTZFAHRZEUG MIT EINEM DERARTIGEN NUTZFAHRZEUGAUFBAU STRUCTURE OF COMMERCIAL VEHICLE WITH A HEIGHT ADJUSTABLE ROOF AND COMMERCIAL VEHICLE WITH SUCH A COMMERCIAL VEHICLE STRUCTURE

Priority: DE201210107956 20120829

Family:

Publication number	Publication date	Application number	Application date
DE102012107956 A1	20140327	DE201210107956	20120829
EP2722208 A2	20140423	EP20130177972	20130725

Probable Assignee: KOEGEL TRAILER GMBH AND CO KG

Assignee(s):(std)**:** KOEGEL TRAILER GMBH AND CO KG

Inventor(s):(std)**:** KREIS REINHARD

Agent(s): MEISSNER BOLTE AND PARTNER GBR

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8–9): B60J5/10 B60J7/16 B60J7/185 B62D33/04 E05B83/10 (Advanced/Invention)

CPC: B60J5/108 B60J7/1614 E05B83/10

Classification Explorer

Cited documents: EP2151372 B1, EP1862340 A2, DE10222998 A1,

DE102007007252 A1

Abstract:
Source: EP2722208A2 Die Erfindung betrifft einen Nutzfahrzeugaufbau mit einem hoehenverstellbaren Dach und einem Heckportal, das wenigstens einen Dachbalken (10) und einen Tuerfluegel (20) umfasst, der in einem geschlossenen Zustand an einer Aussenseite (11) des Dachbalkens (10) anliegt und wenigstens ein bewegliches Riegelelement (21) aufweist, wobei die Aussenseite (11) des Dachbalkens (10) fuer jedes Riegelelement (21) des Tuerfluegels (20) eine Ausnehmung (12) umfasst, in der eine Haltestange (13) angeordnet ist, in die das Riegelelement (21) zum Verriegeln des Heckportals formschluessig eingreift. Die Erfindung zeichnet sich dadurch aus, dass die Ausnehmung (12) eine Hoehe H aufweist, die der Summe aus dem Verstellweg V des hoehenverstellbaren Dachs und der Riegelhoehe R des Riegelelements (21) entspricht oder groesser ist. Ferner betrifft die Erfindung ein Nutzfahrzeug mit einem derartigen Nutzfahrzeugaufbau. The commercial vehicle structure has a height adjustable roof and a rear portal which comprises a roof beam (10) and a door leaf. The door leaf lies at an outer side (11) of the roof beam in a closed condition and comprises a movable locking element. The outer side of the roof beam comprises a recess for the locking element, in which a retaining rod (13) is arranged. The locking element engages in form–fit manner in the retaining rod for locking the rear portal. The recess has a height which corresponds or is equal to the sum of the adjustment of the height adjustable roof and the lock bar height of the locking element.

0) US2014103627A – SIDE–BY–SIDE VEHICLE

130) Family number: 56251804 (US2014103627A) © PatBase

Title: SIDE–BY–SIDE VEHICLE

Priority: AU20130329090 20131011 AU20160208432 20160729 US20130051700 20131011 US20120712396P 20121011 US20130829743P 20130531 US20130434685 20131011 WO2013US64516 20131011

Family:

Publication number	Publication date	Application number	Application date
AU2013329090 AA	20140417	AU20130329090	20131011
AU2013329090 BB	20160616	AU20130329090	20131011
AU2016208432 AA	20160818	AU20160208432	20160729
CA2888097 AA	20150409	CA20132888097	20131011
CN104703866 A	20150610	CN201380053219	20131011
EP2906460 A1	20150819	EP20130784068	20131011
HK1210750 A1	20160506	HK20150111406	20151119
IN02548DN2015 A	20160831	IN2015DN02548	20150327
MX2015004143 A1	20151113	MX20150004143	20131011
RU2015117651 A	20161210	RU20150117651	20131011
US2014103627 AA	20140417	US20130051700	20131011
US2015259011 AA	20150917	US20130434685	20131011
US9776481 BB	20171003	US20130434685	20131011
WO14059258 A1	20140417	WO2013US64516	20131011
ZA201501957 A	20160127	ZA20150001957	20150320

Probable Assignee: POLARIS IND INC

Assignee(s):(std)**:** POLARIS INC

Assignee(s): SCHLANGEN ADAM J ; SWAIN PHILLIP B ; SCHLEIF ANDREW C ; ROYTEK CORRIE S ; STROBACH DANIEL P ; NUGTEREN DANIEL J ; STEINMETZ GORDON J ; PETERSON SHAWN D ; NYSSE AARON J ; CARRUTH CURTIS C ; DECKARD AARON D ; ENDRIZZI JAMES J ; FIELDS JASON R ; HURD CHRIS J ; JOHNSON CLINTON A ; KASTANEK JOHN A ; HOUKOM AUSTIN L ; IVES ANDY T ; JAEGER RICKY G ; HANEGRAAF THOMAS C ; GOFFMAN DANIEL L ; POLARIS IND INC

Inventor(s):(std)**:** CARRUTH CURTIS C ; CARRUTH CURTIS C C ; DECKARD AARON D ; DECKARD AARON D D ; ENDRIZZI JAMES J ; ENDRIZZI JAMES J J ; FIELDS JASON R ; FIELDS JASON R R ; GOFFMAN DANIEL L ; GOFFMAN DANIEL L L ; HANEGRAAF THOMAS C ; HANEGRAAF THOMAS C C ; HOUKOM AUSTIN L ; HOUKOM AUSTIN L L ; HURD CHRIS J ; HURD CHRIS J J ; IVES ANDY T ; IVES ANDY T T ; JAEGER RICKY G ; JAEGER RICKY G G ; JOHNSON CLINTON A ; JOHNSON CLINTON A A ; KASTANEK JOHN A ; KASTANEK JOHN A A ; NUGTEREN DANIEL J ; NUGTEREN DANIEL J J ; NYSSE AARON J ; NYSSE AARON J J ; PETERSON SHAWN D ; PETERSON SHAWN D D ; ROYTEK CORRIE S ; ROYTEK CORRIE S S ; SCHLANGEN ADAM J ; SCHLANGEN ADAM J J ; SCHLEIF ANDREW C ; SCHLEIF ANDREW C C ; STEINMETZ GORDON J ; STEINMETZ GORDON J J ; STROBACH DANIEL P ; STROBACH DANIEL P P ; SWAIN PHILIP B ; SWAIN PHILLIP B ; SWAIN PHILLIP B B

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Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY; REUTELER AND CIE SA; FAEGRE BAKER DANIELS LLP; GROEN ERIC J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ

LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60G11/26 B60G3/02 B60J5/04 B60K11/04 B60K13/04 B60N2/24 B60N2/38 B60N2/44 B60N2/58 B60R22/00 B60R22/34 B62D B62D21/18 B62D25/24 B62D33/06 B62D43/02 B62D49/02 B62D63/02 F16B19/00 (Advanced/Invention); B60R22/02 (Advanced/Non–invention); B62D (Subclass/Invention)

CPC: B62D63/02 B60R22/00 B60N2/44 F16B19/002 B60N2/005 B62D23/005 B62D27/065 F16B7/18 F16B37/067 B60J5/0487 B60N2/24 B60R22/34 B60G3/02 B60G11/265 B62D43/02 B62D25/24 B60R2022/3402 B60J5/047 B60K11/04 B60K13/04 B60R2022/027 B60Y2400/72 B62D21/183 B62D33/0625

US class: 280/124.1 280/781 280/801.1 280/807 297/452.23 411/362

Classification Explorer

Cited documents: USD642493 S1, USD641288 S1, USD640598 S1, USD636704 S1, USD633006 S1, USD631395 S1, USD625662 S1, USD624848 S1, USD622631 S1, USD621423 S1, USD607377 S1, USD606900 S1, USD605555 S1, USD604201 S1, USD595613 S1, USD592998 S1, USD578934 S1, USD578433 S1, USD555036 S1, USD511317 S1, USD504638 S1, USD503657 S1, USD497324 S1, USD467200 S1, US8781705 BA, US8596405 BB, US8548710 BA, US84948010, US8465050 BA, US8328235 BB, US8052202 BB, US79649510, US7913505 BB, US7819220 BB, US7795602 BB, US7717495 BB, US7677646 BB, US7625048 BB, US7431024 BB, US7281753 BB, US7014241 BB, US6582004 BA, US6309024 BA, US6295713 BA, US6293610 BA, US6113328 A, US5895063 A, US5816650 A, US5752791 A, US5738471 A, US5327989 A, US5306044 A, US49489106, US49489006, US48488809, US4817985 A, US47553109, US4650210 A, US4046403 A, US3600768 A, US3422918 A, US24694808, US2016032625 AA, US2015175114 AA, US2015014974 AA, US2014353956 AA, US201361829434 P, US201361769378 P, US2013319785 AA, US2013199097 AA, US2013033070 AA, US2012223500 AA, US201213492589, US201213370139, US2012031693 AA, US2011155087 AA, US201113325561, US201113152981, US2010314191 AA, US2010314184 AA, US2010194086 AA, US2009301830 AA, US2009184531 AA, US2008256738 AA, US2008093883 AA, US2008084091 AA, US2008023249 AA, US2007214818 AA, US2006006696 AA, US2005279330 AA, US2005173177 AA, US2005077098 AA, US2005073187 AA, US2003233732 AA, US2002135175 AA, US2001031185 AA, JP7040783 A2, JP63025977 B4, JP63025977 B2, JP2010095106 A2, JP2003237530 A2, JP2001130304 A2, GB2036659 A1, FR2914597 A1, EP2057060 A2, EP1493624 A1, DE37435 A,

DE102009038853 A1

Forward Citations: USD785504, USD780627, US9789909, US9771112, US9765553, US9573561, US9499205, US9452669, US9428031, US9393894, US9327678, US9327587, US9073454, US2017166255, US2016032625, US2015274199, US2015274121, US2015210319, US2015210139, US2015014083, US2014225358,

Abstract:
Source: US2014103627A The present invention relates to all terrain vehicles having at least a pair of laterally spaced apart seating surfaces.

0) DE102012221993A1 – KRAFTFAHRZEUG MIT EINER WASSERFANGEINRICHTUNG ...

131) Family number: 56588752 (DE102012221993A1) © PatBase

Title: KRAFTFAHRZEUG MIT EINER WASSERFANGEINRICHTUNG MOTOR VEHICLE HAS AXIS ABOUT WHICH COVERING IS PIVOTED BETWEEN REST POSITION AND ACTIVE POSITION BY ADJUSTING DEVICE, WHERE AXIS EXTENDS PARALLEL TO LONGITUDINAL DIRECTION OF A–COLUMN

Priority: DE201210221993 20121130

Family:

Publication number	Publication date	Application number	Application date
DE102012221993 A1	20140605	DE201210221993	20121130

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Inventor(s):(std)**:** OSWALD ROLAND ; SEITZ CHRISTIAN

International class (IPC 8–9)**:** B60J1/02 B60J10/08 B60R13/07 B62D25/07 (Advanced/Invention)

CPC: B60R13/07

Classification Explorer

Cited documents: DE3718121, DE3121093, DE19818388, DE102009009469, DE102004042703, DE102004032726,

Abstract:
Source: DE102012221993A1 Ein Kraftfahrzeug mit einer erfindungsgemaessen Wasserfangeinrichtung weist an der A–Saeule eine Wasserfangleiste auf, die in der Wirkstellung der Wasserfangeinrichtung einen Wasserfangkanal bildet. Der Wasserfangkanal wird in der Ruheposition der Wasserfangeinrichtung durch eine Abdeckung in aerodynamisch vorteilhafter Weise verschlossen. Die Abdeckung ist als Verkleidung der A–Saeule ausgebildet und ist ihrem der Windschutzscheibe des Kraftfahrzeugs zugewandten Randbereich verschwenkbar an der A–Saeule befestigt. In der Ruheposition der Wasserfangeinrichtung fluchtet der der Windschutzscheibe abgewandte freie Endabschnitt der Abdeckung mit dem freien Endabschnitt der Wasserfangleiste und ueberdeckt somit den Wasserfangkanal. In der Wirkstellung der Wasserfangeinrichtung liegt die Abdeckung an der Aussenkontur der A–Saeule an, so dass der Wasserfangkanal freigelegt ist. The motor vehicle has a water arrester device for lateral water flowing off from a windshield (2) of the motor vehicle in the direction of an A–column (4). A covering (30) is provided at the A–column, which is pivoted about an axis (34) between a rest position and an active position by an adjusting device. The axis extends parallel to longitudinal direction of the A–column. The axis extends in the edge area of the A–column, where the edge area is adjacent to the windshield. The A–column has a water arrestor strip (20) at its edge area facing away from the windshield. The water arrestor strip extends along a portion of its height extension. An independent claim is included for a method for controlling a water arrester device for a motor vehicle.

0) US2014193039A – SYSTEM AND METHOD OF MEASURING DISTANCES RELATE...

132) Family number: 56883323 (US2014193039A) © PatBase

Title: SYSTEM AND METHOD OF MEASURING DISTANCES RELATED TO AN OBJECT

Priority:
US20130735449 20130107 US20140315503 20140626 US20140320973 20140701
US20140540030 20141112 US20140581140 20141223 US20150644642 20150311
WO2014US10203 20140103 US20150865250 20150925 US20150960497 20151207
US20160232680 20160809 US20170629093 20170621

Family:

Publication number	Publication date	Application number	Application date
CA2897341 AA	20150706	CA20142897341	20140103
EP2941727 A1	20151111	EP20140735142	20140103
EP2941727 A4	20160810	EP20140735142	20140103
IL239831 A0	20150831	IL20140239831	20140103
US2014193039 AA	20140710	US20130735449	20130107
US2014314276 AA	20141023	US20140320973	20140701
US2014331578 AA	20141113	US20140315503	20140626
US2015068140 AA	20150312	US20140540030	20141112
US2015110421 AA	20150423	US20140581140	20141223
US2015184444 AA	20150702	US20150644642	20150311
US2016012611 AA	20160114	US20150865250	20150925
US2016104288 AA	20160414	US20150960497	20151207
US2016348418 AA	20161201	US20160232680	20160809
US2017284799 AA	20171005	US20170629093	20170621
US8923650 BB	20141230	US20130735449	20130107
US9208581 BB	20151208	US20140581140	20141223
US9230339 BB	20160105	US20140320973	20140701
US9234381 BB	20160112	US20140315503	20140626
US9663983 BB	20170530	US20150644642	20150311
US9691163 BB	20170627	US20150865250	20150925
WO14107592 A1	20140710	WO2014US10203	20140103

Probable Assignee: WEXENERGY LLC

Assignee(s):(std)**:** WEXEBERGY INNOVATIONS LLC ; WEXENERGY INNOVATIONS LLC ; WEXENERGY LLC ; WEXLER RONALD M

Inventor(s):(std)**:** LUO JIEBO ; METELSKY ALAN SCOTT ; SPENCE JOHN P ; SPENCE JOHN PATRICK ; WEXLER RONALD ; WEXLER RONALD M ; WEXLER RONALD MYRON

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; CASEY ALAN MICHAEL; HOWARD; WOODS OVIATT GILMAN LLP; ZARETSKY PATENT GROUP PC; LECLAIRRYAN A PROFESSIONAL CORP; ZARETSKY HOWARD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9):
B60J1/00 E04B1/76 E06B1/34 E06B3/26 E06B3/273 E06B3/28 E06B3/30 E06B3/64 E06B5/00 E06B7/16 E06B7/26 E06B7/28 E06B9/24 G01B11/02 G01C11/04 G06F G06F17/50 G06K9/00 G06K9/36 G06K9/46 G06T3/00 G06T7/00 G06T7/60 G06T7/62 H04N5/232 H04N7/18 (Advanced/Invention);
E06B9/00 G01C11/04 G01C3/00 (Advanced/Non–invention);
G06F (Subclass/Invention)

CPC: E06B3/30 E06B3/28 B60J1/002 E06B2009/005 E06B1/34 E06B7/16 G06T2207/10024 G06T7/0028 H04N7/183 H04N5/23293 G06K9/4604 G06T3/00 G06T2207/10004

G06T7/60 E06B3/285 E06B7/26 E06B7/28 G06T3/0012 G01C3/00 G01C11/04 G06T2207/30208 E06B9/24 E06B3/273 G06T7/33 G06T7/73 G06T7/62 G06T7/602 E06B3/26

US class: 1/1 348/135 382/103 382/106 382/286 52/203 52/204.62 52/741.1

Classification Explorer

Cited documents: WO14152485 A1, WO14144136 A1, WO14123936 A1, WO12078249 A2, USRE35291 E, USRE17821 E, USD542935 S1, USD345903 S1, USD340181 S1, USD332390 S1, USD331211 S1, USD304737 S1, US9416586 BA, US9353567 BB, US9234381 BB, US9217276 BA, US8923650 BB, US8875774 BA, US8869473 BB, US8851423 BA, US8839564 BB, US8795568 BB, US8789343 BB, US8757186 BB, US8733040 BB, US8720077 BA, US8713865 BB, US8695309 BB, US8656665 BB, US8649052 BB, US8643933 BB, US8620045 BB, US8596024 BB, US8595994 BA, US8590261 BB, US8590229 BB, US8586193 BB, US8582087 BB, US8572911 BA, US8553280 BB, US8550140 BB, US8510283 BB, US8490346 BB, US8490345 BB, US8472009 BB, US8439154 BA, US8428393 BB, US8402716 BB, US8402714 BB, US8398909 BA, US8393584 BB, US8393113 BB, US8379914 BB, US8340452 BB, US8339642 BB, US8326015 BB, US8316613 BB, US8303071 BB, US8297003 BB, US8276498 BA, US8272178 BB, US8256122 BB, US8254663 BB, US8249691 BB, US8245619 BB, US8237788 BB, US8235284 BA, US8206631 BA, US8181400 BB, US8180137 BB, US8171681 BB, US8163224 BB, US8151687 BB, US8151542 BB, US8151540 BB, US8126260 BB, US8118216 BB, US8109235 BB, US8104692 BB, US8040530 BB, US8039102 BA, US8000514 BB, US7996317 BA, US7986826 BB, US7983468 BB, US7978900 BB, US7963075 BB, US7957582 BB, US7953268 BB, US7950716 BB, US7949176 BB, US7912743 BB, US7912320 BA, US7900408 BB, US7899512 BB, US7893963 BB, US7886651 BB, US7885451 BA, US7866101 BB, US7847711 BB, US7836638 BB, US7829003 BB, US7818927 BA, US7806484 BA, US7805897 BB, US7793831 BB, US7778457 BB, US7770353 BB, US7769236 BB, US7763334 BB, US7751645 BB, US7735271 BA, US7716875 BB, US7706567 BB, US7705720 BB, US7680739 BA, US7675057 BB, US7665706 BB, US7652595 BB, US7651063 BB, US7634128 BB, US7625595 BB, US7606741 BB, US7593595 BB, US7518741 BB, US7515250 BB, US7496241 BA, US7487598 BB, US7464506 BB, US7455269 BA, US7426316 BB, US7380759 BA, US7377425 BA, US7373173 BB, US7331523 BB, US7327865 BB, US7325365 BB, US7311112 BB, US7301564 BB, US7293391 BB, US7293368 BA, US7286208 BB, US7283202 BB, US7259727 BB, US7244325 BB, US7231081 BB, US7231063 BB, US7229059 BA, US7228662 BA, US7095531 BB, US7093643 BB, US7064831 BB, US7059482 BB, US7038701 BB, US7020320 BB, US7000356 BB, US6991346 BB, US6985631 BB, US6974518 BB, US6971205 BB, US6963390 BA, US6947610 BB, US6941700 BA, US6932528 BB, US6928776 BB, US6918426 BA, US6904162 BB, US6898907 BB, US6889480 BB, US6883930 BB, US6880790 BB, US6877286 BB, US6869053 BB, US6848492 BB, US6829861 BA, US6824000 BB, US6807294 BB, US6798925 BA, US6771808 BA, US6765569 BB, US6749797 BB, US6735341 BA, US6694047 BA, US6688027 BB, US6679013 BB, US6678062 BB, US6669341 BB, US6666251 BB, US6663064 BA, US6662523 BB, US6658775 BA, US6651831 BB, US6625927 BB, US6625302 BB, US6606837 BB, US6603882 BB, US6578326 BA, US6525651 BA, US6502355 BA, US6485106 BA, US6464185 BA, US6412225 BA, US6400848 BA, US6400334 BA, US6381917 BA, US6375143 BA, US6339909 BA, US6259943 BA, US6252185 BA, US6247518 BA, US6192967 BA, US6180196 BA, US6180196 B1, US6167661 BA, US6167661 B1, US6155009 A, US6148890 A, US6089517 A, US6064393 A, US6053356 A, US6038553 A, US6038351 A, US5996951 A, US5979889 A, US5962072 A, US5950398 A, US5943117 A, US5937595 A, US5918430 A, US5897158 A, US5825564 A, US5799661 A, US5794404 A, US5787956 A, US5784213 A, US5776506 A, US5761686 A, US5747816 A, US5737885 A, US5732760 A, US5649389 A, US5645254 A, US5640815 A, US5622414 A, US5606129 A, US5588476 A, US5573214 A, US5554421 A, US5553420 A, US5552768 A, US5551657 A, US5550681 A, US5537483 A, US5511752 A, US5496643 A, US5496598 A, US5489890 A, US5485709 A, US5483916 A, US5465776 A, US5441095 A, US5429335 A, US5405112 A, US5395159 A, US5390837 A, US5390454 A, US5363595 A, US5345743 A, US5333665 A, US5319879 A, US5247391 A, US5174607 A, US5168636 A, US5137238 A, US5126926 A, US5116274 A, US5085390 A, US5075991 A, US5048258 A, US5039045 A, US5031684 A, US5016937 A, US4991806 A, US4984760 A, US4979323 A, US4971028 A, US4959117 A, US4947596 A, US4915058 A, US4905569 A, US4902879 A, US4896855 A, US4848913 A, US4846429 A, US4842322 A, US4841696 A, US4736539 A, US4733956 A, US4702051 A, US4694973 A, US4684996 A, US4648572 A, US4640619 A, US4624539 A, US4598520 A, US4590883 A, US4588153 A, US4561223 A, US4544587 A, US4539516 A, US4499703 A, US4492355 A, US4473980 A, US4471589 A, US4463942 A, US4456241 A, US4453585 A, US4424653 A, US4422492 A, US4406246 A, US4399640 A, US4387542 A, US4382588 A, US4380140 A, US4372094 A, US4361116 A, US4351137 A, US4295920 A, US4292773 A, US4272934 A, US4257419 A, US4206615 A, US4189880 A, US4182088 A, US4158278 A, US4132035 A, US4089143 A, US4085999 A, US4085238 A, US4056229 A, US3978612 A, US3936670

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Forward Citations: WO17009615, WO16198739, WO15131129, US9786042, US9766844, US9741135, US9691163, US9663983, US9652887, US9628709, US9619899, US9613020, US9606701, US9576363, US9574871, US9570892, US9569851, US9546515, US9536301, US9501840, US9495667, US9466097, US9436743, US9410362, US9256932, US9234381, US9208581, US9160946, US9064177, US8977033, US2016234433, US2016225130, US2016212342, US2016180549, US2016148428, US2016104288, US2016091322, US2016042233, US2015371373, US2015288878, US2015285647, US2015284996, US2015262012, US2015242095, US2015206339, US2015186967, US2015184444, US2015160539, US2015138570, US2015124085, US2015110421, US2015068140, US2014331578, US2014044303, US2011019902, DE102016002424, DE102014221093,

Abstract:
Source: US2014193039A A system and method for the measurement of distances related to an object depicted in an image. One aspect including delivery of supplemental materials for fenestration and for constructing insulating materials for fenestration. A digital image containing a primary object dimension and a reference object dimension in substantially the same plane undergoes digital image processing to provide improved measurement capability. Information regarding a primary object is provided to an automated measurement process, design and manufacturing system to provide customized parts to end users. A digital image is obtained having an observable constraint dimension to which a customized part is to conform wherein the digital image contains a reference object having a reference dimension and a constraint dimension is calculated from the digital image based on a reference dimension. The custom part is designed and manufactured based on the calculated constraint dimension.

0) US2014265285A – UTILITY VEHICLE

133) Family number: 57412223 (US2014265285A) © PatBase

Title: UTILITY VEHICLE

Priority: AU20140227985 20140314 AU20170219003 20170823 US20130788874P 20130315 US20140212092 20140314 WO2014US28152 20140314

Family:

Publication number	Publication date	Application number	Application date
AU2014227985 AA	20140918	AU20140227985	20140314
AU2014227985 BB	20170525	AU20140227985	20140314
AU2017219003 AA	20170907	AU20170219003	20170823
CA2901541 AA	20150814	CA20142901541	20140314
CN105263787 A	20160120	CN201480013040	20140314
EP2969711 A2	20160120	EP20140726795	20140314
IN08139DN2015 A	20160610	IN2015DN08139	20150909
MX2015010671 A1	20151216	MX20150010671	20140314
RU2015143447 A	20170421	RU20150143447	20140314
US2014265285 AA	20140918	US20140212092	20140314
US9789909 BB	20171017	US20140212092	20140314
WO14143953 A2	20140918	WO2014US28152	20140314
WO14143953 A3	20141127	WO2014US28152	20140314

Probable Assignee: POLARIS IND INC

Assignee(s):(std)**:** POLARIS INC

Assignee(s): POLARIS IND INC ; RIPLEY RICHARD D ; SEIDEL BRIAN J ; ERSPAMER BRENT A ; LUTZ DENNIS J

Inventor(s):(std)**:** LUTZ DENNIS J ; RIPLEY RICHARD D ; SEIDEL BRIAN J ; ERSPAMER BRENT A

Inventor(s): DENNIS J LUTZ ; BRIAN J SEIDEL ; BRENT A ERSPAMER ; RICHARD D RIPLEY

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY; REUTELER AND CIE SA; FAEGRE BAKER DANIELS LLP; VAN DALEN JESSICA L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J10/86 B60J5/04 B60J7/19 B60N2/01 B60N2/02 B60N2/30 B60N2/36 B60N2/44 B60N2/60 B60N2/68 B60R21/00 B60R21/13 B60R7/04 B62D21/00 B62D21/08 B62D21/18 B62D23/00 B62D33/06 B62D47/00 (Advanced/Invention); B60K13/02 B60K13/04 B60K5/00 B60N2/36 B60R21/00 (Advanced/Non–invention)

CPC: B62D23/005 B60J5/0487 B60J10/86 B60K13/02 B60K13/04 B60K2005/003 B60N2/012 B60N2/449 B60N2/6009 B60N2/68 B60R7/04 B60Y2200/20 B62D21/183

US class: 280/781 280/783

Classification Explorer

Cited documents: WO9830430 A1, WO14059258 A1, WO14039433 A2, WO14039432 A2, WO13166310 A1, WO12174793 A1, WO12109546 A1, WO12040553 A2, WO10148014 A1, WO03055716 A1, WO03042026 A1, USD555036 S1, USD503905 S1, USD498435 S1, US9266417 BB, US9216777 BB, US9150182 BA, US8997908 BB, US8979123 BA, US8973691 BB, US8668236 BA, US8640814 BB, US8556324 BA, US8511732 BB, US8376441 BB, US8328235 BB, US8235443 BB, US8100434 BB, US7819220 BB, US7677343 BB, US7578544 BA, US7488022 BB, US7322106 BB, US6926350 BB, US6652020 BB, US6533348 BA, US6293617 BA, US6257797 BA, US5975624 A, US5947519 A, US5642957 A, US5465929 A, US5203135 A, US4691818 A, US4660345

A, US4344718 A, US2014109627 AA, US2014067215 AA, US2014065936 AA, US2014062048 AA, US2014060954 AA, US2013033070 AA, US201261696519 P, US2012223500 AA, US2012217078 AA, US2012212013 AA, US201213492589, US201213464603, US201213370139, US2012073537 AA, US2012073527 AA, US2011298189 AA, US201113242239, US2009302590 AA, US2009301830 AA, US2009184541 AA, US2009184537 AA, US2009184536 AA, US2009184534 AA, US2009183937 AA, US2009121518 AA, US2009091101 AA, US2009071739 AA, US2009071737 AA, US2009000849 AA, US2008308334 AA, US2008023249 AA, US2008023240 AA, US2003231926 AA, JP2000118438 A2, FR2936028 A1, EP2236395 A1, EP1602523 A2, EP1600326 A1, EP0568251 A1, DE19949787 A1, CN201300915 Y,

Forward Citations: USD764972, US9738134, US9512771, US2017029035, US2016090889, US2015210319,

Abstract:
Source: US2014265285A A utility vehicle includes a plurality of ground engaging members and a frame supported by the plurality of ground engaging members. Additionally, the utility vehicle includes an operator area having a front seating section and a rear seating section.

0) WO14167210A1 – ASSEMBLY COMPRISING A COWL COLLECTOR MADE FROM ...

134) Family number: 57583044 (WO14167210A1) © PatBase

Title: ASSEMBLY COMPRISING A COWL COLLECTOR MADE FROM A PLASTIC MATERIAL AND A COWL GRILLE MADE FROM A PLASTIC MATERIAL INTENDED TO BE FIXED TO SAID COWL COLLECTOR IN ORDER TO COVER SAME

Priority: FR20130053265 20130411 WO2014FR50763 20140331

Family:

Publication number	Publication date	Application number	Application date
CN105102311 A	20151125	CN201480020553	20140331
CN105102311 B	20170510	CN201480020553	20140331
EP2983966 A1	20160217	EP20140721444	20140331
EP2983966 B1	20170517	EP20140721444	20140331
FR3004405 A1	20141017	FR20130053265	20130411
FR3004405 B1	20150417	FR20130053265	20130411
WO14167210 A1	20141016	WO2014FR50763	20140331

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Inventor(s):(std)**:** KELLER SYLVAIN ; TAVERNIER LUC

Inventor(s): LUC TAVERNIER ; SYLVAIN KELLER

Agent(s): FOSSE DANIELE; PEUGEOT CITROEN AUTOMOBILES SA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/00 B60R13/07 B60S1/48 B62D25/08 (Advanced/Invention)

CPC: B60S1/48 B62D25/081

Classification Explorer

Cited documents: US2006202516 AA, FR2930225 B1, FR2668110 A1, EP2112026 A1, EP1787869 A1, CN202703526 U, CN101291834 A,

Forward Citations: WO17162936, FR3049259, FR3046591,

Abstract:
An assembly comprising a cowl collector (1) made from a plastic material and a cowl grille (3) made from a plastic material intended to be fixed to said cowl collector (1) in order to cover same, said cowl grille (3) carrying, on the inner face of same intended to cover the cowl collector (1), the flexible pipe (4) for supplying water to the nozzles for washing the windscreen of a motor vehicle, said flexible pipe (4) opening on the outside of the assembly, when mounted, via a passage included between the pipe (4), the collector (1) and the cowl grille (3), characterised in that the cowl grille (3) comprises, in an area located close to the periphery of said grille (3), means (7) for holding the flexible pipe (4), the cowl grille (3) and the cowl collector (1) comprising means that engage together by form locking to substantially completely block said passage in order to ensure the acoustic sealing of same.

0) US2015047917A – SIDE–BY–SIDE VEHICLE

135) Family number: 58505636 (US2015047917A) © PatBase

Title: SIDE–BY–SIDE VEHICLE

Priority: US20130865983P 20130814 US20140458839 20140813 WO2014US50890 20140813

Family:

Publication number	Publication date	Application number	Application date
AU2014306646 AA	20150219	AU20140306646	20140813
CA2921360 AA	20160212	CA20142921360	20140813
CN105793143 A	20160720	CN201480051129	20140813
EP3033264 A1	20160622	EP20140756189	20140813
MX2016001941 A1	20160602	MX20160001941	20140813
US2015047917 AA	20150219	US20140458839	20140813
US9540052 BB	20170110	US20140458839	20140813
WO15023749 A1	20150219	WO2014US50890	20140813

Probable Assignee: POLARIS INC

Assignee(s):(std)**:** POLARIS INC

Assignee(s): STENBERG KURT E ; ROGALA JAMES E ; BLACK MACKEN RYAN ; BOHNSACK MICHAEL C ; BRACY GARTH H ; BURT DANIEL L II ; HANTEN MICHAEL J ; JOHNSTUN JEREMIAH T ; KINSMAN ANTHONY J ; GOULET JEFF M ; MELVIN TIMOTHY F ; EATON BRENT C ; HANSON BRENT J ; MILLER ANDREW J ; POLARIS IND INC

Inventor(s):(std)**:** EATON BRENT C ; GOULET JEFF M ; HANSON BRENT J ; HANTEN MICHAEL J ; JOHNSTUN JEREMIAH T ; KINSMAN ANTHONY J ; MELVIN TIMOTHY F ; MILLER ANDREW J ; ROGALA JAMES E ; STENBERG KURT E ; BLACK MACKEN RYAN ; BOHNSACK MICHAEL C ; BRACY GARTH H ; BURT II DANIEL L ; BURT DANIEL L II

Inventor(s): DANIEL L BURT II ; TIMOTHY F MELVIN ; RYAN BLACK MACKEN ; MICHAEL J HANTEN ; MICHAEL C BOHNSACK ; KURT E STENBERG ; JEREMIAH T JOHNSTUN ; JEFF M GOULET ; JAMES E ROGALA ; GARTH H BRACY ; BURT DANIEL L ; BRENT J HANSON ; BRENT C EATON ; ANTHONY J KINSMAN ; ANDREW J MILLER

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY; REUTELER AND CIE SA; FAEGRE BAKER DANIELS LLP; VAN DALEN JESSICA L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J10/08 B60K1/04 B60K13/02 B60K15/04 B60K5/00 B60R7/06 B62D23/00 B62D25/14 B62D25/20 B62D33/06 (Advanced/Invention); B60K13/02 (Advanced/Non–invention)

CPC: B62D33/0617 B62D25/2036 B60K15/04 B60K1/04 B62D25/14 B60K5/00 B60R7/06 B60K2015/0474 B60K2001/0405 B60J10/80 B60K2005/003 B60Y2200/86 B62D23/005 B60Y2200/20 B60K13/02

US class: 180/292 180/68.3 180/68.5 180/69.4 180/89.1 180/90 180/90.6

Classification Explorer

Cited documents: USRE42086 E, US8800706 BB, US8613337 BB, US8613336 BB, US8302711 BB, US8132827 BB, US8079602 BB, US7950486 BB, US7795602 BB, US7258395 BB, US2014110893 AA, US2013033070 AA, US2012161468 AA, US201213492589, US2011298189 AA, DE1728539 A1, CN1676402 A, CN101981266 A, CN101878146 A,

Forward Citations: USD780627, US9764768, US9738134, US9713976, US9440681, US2017029035, US2014292036,

Abstract:
Source: US2015047917A A utility vehicle includes a plurality of ground−engaging members, a frame assembly supported by the plurality of ground−engaging members, and a powertrain assembly. Additionally, the utility vehicle includes a body generally surrounding the frame assembly and including a hood, dashboard assembly, and a side panel.

136) Family number: 60066164 (US2016250912A) © PatBase

Title: VERTICAL SEALING ARRANGEMENT BETWEEN DOORS WITHOUT SIDE PILLARS

Priority: BR20141002997 20140207 BR20141031763 20141218 WO2015BR00012 20150130 BR2014PI02997 20140207 BR2014PI03176 20141218 BR20141331763 20141218

Family:

Publication number	Publication date	Application number	Application date
AR103099 AA	20170419	AR2015P100349	20150206
BR102014002997 A2	20151208	BR20141002997	20140207
CA2927636 AA	20160415	CA20152927636	20150130
CN105899386 A	20160824	CN201580003569	20150130
CO16101181 A2	20170113	CO20160101181	20160421
EP3072722 A1	20160928	EP20150746675	20150130
EP3072722 A4	20170712	EP20150746675	20150130
IN201637013016 A	20160826	IN201637013016	20160413
JP2017505252 T2	20170216	JP20160523905T	20150130
KR20160119752 A	20161014	KR20167011375	20150130
MX2016009133 A1	20161013	MX20160009133	20150130
US2016250912 AA	20160901	US20150030482	20150130
WO15117211 A1	20150813	WO2015BR00012	20150130

Probable Assignee: FCA FIAT CHRYSLER AUTOMOVEIS BRASIL LTDA

Assignee(s):(std)**:** FCA FIAT CHRYSLER AUTOMOVEIS BRASIL LTDA ; FIAT AUTOMOVEIS S A

Assignee(s): FIAT AUTOMOVEIS SA ; PEREIRA MARCELO FERREIRA ; BICALHO GUILHERME FERREIRA SETTE ; BORGES FILHO AROLDO GASPAR ; DA SILVA ANDERSON SEIXAS MALTA

Inventor(s):(std)**:** ANDERSON SEIXAS MALTA DA SILVA ; AROLDO GASPAR BORGES FILHO ; BICALHO GUILHERME FERREIRA SETTE ; BORGES AROLDO GASPAR FILHO ; BORGES FILHO AROLDO GASPAR ; DA SILVA ANDERSON SEIXAS MALTA ; GUILHERME FERREIRA SETTE BICALHO ; MARCELO FERREIRA PEREIRA ; PEREIRA MARCELO FERREIRA ; SILVA ANDERSON SEIXAS MALTA DA

Agent(s): SARKIS MARCELO K; INES CONSUELO BENJUMEA RENDON; GERVASI GEMMA; OHNO SEIJI; ARIBONI FABBRI E SCHMIDT SOCIEDADE DE ADVOGADOS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** B60J10/00 B60J10/08 B60J10/15 B60J10/23 B60J10/235 B60J10/24 B60J10/248 B60J10/25 B60J10/32 B60J10/36 B60J10/80 B60J10/86 B60J5/00 B60R13/07 (Advanced/Invention)

CPC: B60J10/40 B60J10/248 B60J10/15 B60R13/07 B60Y2200/14 B60J10/25 B60J10/86 B60J10/23

US class: 296/154

Classification Explorer

Cited documents: WO04103749 A1, US6686020 BB, US6641205 BA, US5590926 A, US5527583 A, US4998946 A, US4492405 A, US2014223830 AA, US2013047519 AA, US2012023830 AA, US2010095599 AA, US2009070960 AA, US2007113482 AA, GB2398597 A1, EP1346864 A1, EP1031690 A1, DE4029091 A1, CN201712450 U,

Abstract:
Source: US2016250912A A vertical sealing arrangement to be used between doors of utility motor vehicles of

various types, such as pickups, trucks, SUVs, sedans, hatchbacks and the like with front and rear doors without the side pillar, the so−called B pillar, is formed by two mouldings, the top collector and the bottom discharger, which are interconnected by an extruded profile having at least one hollow longitudinal cavity the lumen of which interconnects−the inside volume of the collector to the inside volume of the discharger, thus defining a flow path for water and dust deposited on the upper part of the vehicle down to the lower part of the vehicle.

0) US2015360547A – WEATHERSTRIP FOR VEHICLE

137) Family number: 61122507 (US2015360547A) © PatBase

Title: WEATHERSTRIP FOR VEHICLE

Priority: JP20140120729 20140611 JP20140120747 20140611

Family:

Publication number	Publication date	Application number	Application date
JP2016000564 A2	20160107	JP20140120729	20140611
JP2016000565 A2	20160107	JP20140120747	20140611
TH152417 A	20160519	TH20151003201	20150609
US2015360547 AA	20151217	US20150724406	20150528

Probable Assignee: NISHIKAWA RUBBER CO LTD

Assignee(s):(std)**:** NISHIKAWA RUBBER CO LTD

Assignee(s): NISHIKAWA RUBBER CO

Inventor(s):(std)**:** OGAWA HIROFUMI ; OGAWA HIROSHI

Agent(s): MAEDA AND PARTNERS

International class(IPC 8–9)**:** B60J10/00 B60J10/08 B60J10/86 B60J5/04 B60R13/06 E06B7/22 (Advanced/Invention); B60J10/08 (Core/Invention)

CPC: B60J5/0479 B60J10/21 B60J10/25 B60J10/40 B60J10/84 B60J10/86 B60J10/87

US class: 49/368

Classification Explorer

Cited documents: US6332641 BA, US6039384 A, US4561690 A, US2015273993 AA, US2015251529 AA, US2015210219 AA, US2014049067 AA, US2013019538 AA, US2012161463 AA, US2012159858 AA, US2011252707 AA,

Abstract:
Source: US2015360547A First and second fins extending toward a second–closing door are provided at an upper end of a side–edge seal of a first–closing door of a double door of a vehicle. When the first–closing door is closed, the first fin overlaps the body–side seal, and the second fin overlaps an outer surface of the vehicle body outside the body–side seal. When the second–closing door is closed, an inner surface of the second–closing door abuts on the body–side seal to run on the side–edge seal from the first fin. A seal portion of the second–closing door abuts on the outer surface of the vehicle body outside the body–side seal to run on the side–edge seal from the second fin. The first and second fins are deformed independently from each other.

0) US2017217290A – DISPLAY DEVICE AND DRIVING SUPPORT SYSTEM

138) Family number: 61649897 (US2017217290A) © PatBase

Title: DISPLAY DEVICE AND DRIVING SUPPORT SYSTEM

Priority: JP20140161241 20140807 WO2015IB55800 20150731

Family:

Publication number	Publication date	Application number	Application date
JP2016020808 A1	20170706	JP20160539681T	20150731
US2017217290 AA	20170803	US20150500437	20150731
WO16020808 A1	20160211	WO2015IB55800	20150731

Probable Assignee: SEMICONDUCTOR ENERGY LAB

Assignee(s):(std)**:** SEMICONDUCTOR ENERGY LAB

Assignee(s): SEMICONDUCTOR ENERGY LABORATORY CO ; SEMICONDUCTOR ENERGY LABORATORY CO LTD

Inventor(s):(std)**:** TAJIMA RYOTA ; YOSHIZUMI KENSUKE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J3/02 B60R1/00 B60R11/02 G06F3/048 G09F21/04 G09F9/00 G09F9/30 G09G3/20 G09G3/30 H01L51/50 H04N7/18 H05B33/02 (Advanced/Invention); G08G1/16 (Advanced/Non–invention)

CPC: G09G3/20 G09G3/30 H01L51/50 H05B33/02 B60J3/0204 G09F21/04 H04N7/183 B60Y2400/92 B60J3/02 G09G3/001 B60R11/0235 B60R2011/0028 B60R2011/0035 B60R2011/0082

Classification Explorer

Cited documents: WO10140458 A1, JP2010215027 A2, JP2009006893 A2, JP2006044596 A2, JP2005349977 A2, JP2005321702 A2, JP2005297762 A2, JP2005057536 A2, JP2004155316 A2, JP11222052,

Abstract:
Source: US2017217290A A display device or a driving support system which enables a driver to obtain information easily is provided. A display device or a driving support system which is unlikely to impose a burden on a driver is provided. A display device or a driving support system which is suitable for space saving is provided. A display device or a driving support system which is capable of large–area display is provided. A display device or a driving support system which does not impair the aesthetic appearance of the car interior is provided. The display device includes a display panel which has flexibility and can be transformed between a first form and a second form, and a driving means having a function of reversibly changing the display panel between the first form and the second form. The first form is a form in which a display surface of the display panel is suspended, and the second form is a form in which the display panel is stored upward.

0) US2016167592A – CUP HOLDER FOR TONNEAU COVER

139) Family number: 62650014 (US2016167592A) © PatBase

Title: CUP HOLDER FOR TONNEAU COVER

Priority: US20140567624 20141211

Family:

Publication number	Publication date	Application number	Application date
US2016167592 AA	20160616	US20140567624	20141211
US9452716 BB	20160927	US20140567624	20141211

Probable Assignee: TOYOTA JIDOSHA KK

Assignee(s):(std)**:** TOYOTA ENG AND MFG NORTH AMERICA ; TOYOTA MOTOR ENG AND MFG NORTH AMERICA INC

Assignee(s): TOYOTA MOTOR ENGINEERING AND MFG NORTH AMERICA INC ; TOYOTA JIDOSHA KK

Inventor(s):(std)**:** O BRIEN KEITH ; SACKETT JAY LEONARD ; WILLIAMS PAXTON S

Agent(s): CHRISTOPHER G; DARROW MUSTAFA PC

International class (IPC 8–9): B60J7/16 B60P7/02 B60R11/00 B60R13/07 B60R13/08 (Advanced/Invention)

CPC: B60R11/00 B60R13/08 B60R2011/004 B60R2011/0082 B60R13/07 B60J7/085 B60J7/141 B60N3/101 B60N3/102 B60N3/108

US class: 1/1 296/37.6

Classification Explorer

Cited documents: US7815235 BB, US7252322 BB, US6361009 BA, US6189755 BA, US5651523 A, US5595417 A, US5573214 A, US5524958 A, US5335960 A, US5330145 A, US4852843 A, US2013126691 AA, US2012118930 AA, US2011006092 AA, US2010005828 AA, US2008190977 AA, US2001032791 AA,

Abstract:
Source: US2016167592A A folding tonneau cover or lid is configured for selectively enclosing at least a portion of an open topped bed of a pick up or SUV type motor vehicle. The tonneau cover includes one or a plurality of flexibly linked panels extending between cooperating side walls of the open topped bed, and is manually operable for displacement between a deployed position wherein the open topped bed is fully covered and a retracted position wherein the open topped bed is partially or fully exposed. At least one panel forms a generally planer first surface facing downwardly when in the deployed position and upwardly when in the retracted position, and a second surface facing upwardly when in the deployed position and downwardly when in the retracted position. A cup holder is integrated with one of the panel surfaces and forms a beverage container receiving cavity opening away from the panel surfaces.

0) WO16151076A1 – ROOF SYSTEM FOR A VEHICLE SYSTEME DE TOIT POUR...

140) Family number: 59342432 (WO16151076A1) © PatBase

Title: ROOF SYSTEM FOR A VEHICLE

Priority: GB20150004985 20150324

Family:

Publication number	Publication date	Application number	Application date
GB201504985 A0	20150506	GB20150004985	20150324
GB2536660 A1	20160928	GB20150004985	20150324
WO16151076 A1	20160929	WO2016EP56517	20160324

Probable Assignee: JAGUAR LAND ROVER LTD

Assignee(s):(std)**:** JAGUAR LAND ROVER LTD

Inventor(s):(std)**:** DAN HAYNES ; ELLIS STEPHEN ; HAYNES DAN ; STEPHEN ELLIS

Agent(s): DITUM CAROLINE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J7/08 B60J7/10 B60J7/12 B60J7/19 (Advanced/Invention)

CPC: B60J7/1226 B60J7/194 B60J7/08 B60J7/106 B60J10/90

Classification Explorer

Cited documents: US6135535 A, US3688787 A, US2004066057 AA, FR2734210 A1, EP2366572 A1, EP2364869 A1, DE4116223 A1,

DE102009035032 A1

DE102009020941 A1

DE102009007331 A1

DE102008036903 A1

DE102006024353 A1

Abstract:
A detachable roof system for a convertible vehicle (10) having an open state in which a vehicle cabin is open and a closed state in which the vehicle cabin is closed includes a front frame (30) which is removably mountable to the vehicle at the front of the vehicle cabin and a rear frame (60), separate from the front frame (30), which is removably mountable to the vehicle at the rear of the vehicle cabin. The rear frame includes an integral panel (76) which forms a rear window of the vehicle when the rear frame is mounted on the vehicle. The roof system includes a hood (34) for covering the cabin in the closed state; wherein the rear frame (60) provides a support for the hood (34) which spans the rear frame (60) when the hood (34) covers the cabin.

0) FR3038548B – SYSTEME DE FIXATION D'UN JOINT D'ETANCHEITE A U...

141) Family number: 64683652 (FR3038548B) © PatBase

Title: SYSTEME DE FIXATION D'UN JOINT D'ETANCHEITE A UN OUVRANT

Priority: FR20150056374 20150706

Family:

Publication number	Publication date	Application number	Application date
FR3038548 A1	20170113	FR20150056374	20150706
FR3038548 B1	20170728	FR20150056374	20150706

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s):(std)**:** PEUGEOT CITROEN AUTOMOBILES SA

Inventor(s):(std)**:** LUKASIEWICZ STEPHANE ; MAUVAIS FREDERIC

Inventor(s): STEPHANE LUKASIEWICZ ; FREDERIC MAUVAIS

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

International class (IPC 8–9): B60J10/80 (Advanced/Invention)

CPC: B60J5/0468 B60J10/30 B60J10/36 B60J10/86

Classification Explorer

Cited documents: US6811194 BA, US6138415 A, JP2012096701 A2, EP1074416 A2,

Abstract:
Source: FR3038548A Systeme de fixation d'un joint (6) d'etancheite sur une peripherie d'un ouvrant (2) de vehicule automobile, l'ouvrant (2) comprenant une peau (4) ayant une face (5) interne tournee vers l'interieur du vehicule et une doublure (3) montee sur la face (5) interne de la peau (4), le joint (6) d'etancheite ayant une premiere partie (7) permettant la fixation du joint (6) sur la doublure (3) par un element (9) de fixation et une deuxieme partie (8) permettant la fixation du joint (6) sur la peau (4), dans lequel: – la peau (4) de l'ouvrant (2) comporte sur sa peripherie un repli (12) tourne vers la face (5) interne, ce repli (12) presentant en son extremite un embouti (13) local; – le joint (6) d'etancheite comporte sur sa deuxieme partie (8) une griffe (11) destinee a venir se loger dans l'embouti (13) local de la peau (4). System of fixation of a seal (6) on a periphery of a motor vehicle (2) opening, opening (2) including a skin (4) having a face (5) internal tour towards the Interior of the vehicle and a lining (3) mounted on the face (5) internal skin (4), the gasket (6) having a first part (7) allowing the fixing of the seal (6) on the lining (3) by an element (9) attachment and a second part (8) allowing the fixing of the seal (6) on the skin (4), in which:–the opening (2) (4) skin has on its periphery a downturn (12) turns to face (5) internal, this decline (12) presenting in the end one indent (13) local; –the gasket (6) has on its second part (8) a claw (11) destiny has come to stay in indent (13) local of the skin (4)

0) WO17013328A1 – MOTOR VEHICLE COMPRISING A SLIDING ROOF DEVICE ...

142) Family number: 64739427 (WO17013328A1) © PatBase

Title: MOTOR VEHICLE COMPRISING A SLIDING ROOF DEVICE COMPRISING A ROLL–UP AND ROLL–DOWN SHUTTER

Priority: FR20150056755 20150717

Family:

Publication number	Publication date	Application number	Application date
FR3038867 A1	20170120	FR20150056755	20150717
WO17013328 A1	20170126	WO2016FR51785	20160712

Probable Assignee: RENAULT SA

Assignee(s):(std): RENAULT SA

Assignee(s): RENAULT SAS

Inventor(s):(std): MULATO GILLES

Inventor(s): GILLES MULATO

Agent(s): CABINET CORALIS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J1/18 B60J7/04 B60J7/06 B60J7/14 (Advanced/Invention)

CPC: B60J7/04 B60J1/1861 B60J7/067

Classification Explorer

Cited documents: FR2738620 A1, EP0803390 A1, DE19616972 A1, DE10230444 A1, CA2006278 AA, CA1107790 A1,

Abstract:
The invention relates to a motor vehicle (1) comprising a passenger compartment, in the roof (2) of which an opening (3) is provided, as well as a sliding roof device (10) suitable for closing off or freeing said opening (3). According to the invention, said sliding roof device (10) comprises a shutter (100) comprising a plurality of slats (1000A, 1000B, 1000C, 1000D, 1000E) arranged next to one another in parallel with a winding axis (801) of the shutter, and actuation means for rolling down and rolling up the shutter (100) about the winding axis (801) thereof, between an rolled down configuration in which said shutter is opened out so as to close off said opening (3) in the roof (2) of the passenger compartment, and a rolled up configuration in which said shutter is rolled up about the winding axis (801) thereof so as to free this opening (3).

0) FR3040149A – PORTE DE VEHICULE

143) Family number: 64989453 (FR3040149A) © PatBase

Title: PORTE DE VEHICULE

Priority: JP20150161076 20150818

Family:

Publication number	Publication date	Application number	Application date
FR3040149 A1	20170224	FR20160057763	20160816
JP2017040051 A2	20170223	JP20150161076	20150818

Probable Assignee: TOYOTA IND CORP

Assignee(s):(std)**:** TOYOTA IND CORP ; TOYOTA INDUSTRIES CORP ; TOYOTA JIDOSHOKKI KK ; TOYOTA MOTOR CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA KK

Inventor(s):(std)**:** GOTO RYUSUKE ; ONISHI YUKIHIRO ; ONISHI YUKIYASU ; TAMAKOSHI HIROSHI ; TAMAKOSHI KOJI

Inventor(s): YUKIHIRO ONISHI ; RYUSUKE GOTO ; KOJI TAMAKOSHI

Agent(s): NOVAGRAAF BREVETS; FUKAMI PATENT OFFICE PC

International class (IPC 8–9): B60J1/17 B60J5/04 E05F11/38 (Advanced/Invention)

CPC: B60J1/17 B60J5/0419 E05F11/382 E05F11/525 E05F15/689

Classification Explorer

Abstract:
Source: FR3040149A Une porte de vehicule comprend: une vitre; un bati avant et un bati arriere configures pour guider la vitre; et un panneau de porte logeant une partie inferieure du bati avant et une partie inferieure du bati arriere. Le bati avant et le bati arriere ont chacun une extremite inferieure. L'extremite inferieure dudit un bati parmi le bati avant et le bati arriere est positionnee plus bas que l'extremite inferieure de l'autre bati. Le panneau de porte comprend une partie de guidage qui fait face a une partie inferieure dudit un bati. La vitre comprend une partie en saillie qui est introduite dans un espace entre ledit un bati et la partie de guidage. La partie en saillie est configuree pour pouvoir coulisser sur la partie de guidage.

0) US2017057333A – COVER SYSTEM FOR OPEN–TOPPED CONTAINERS

144) Family number: 65075182 (US2017057333A) © PatBase

Title: COVER SYSTEM FOR OPEN–TOPPED CONTAINERS

Priority: US20150213052P 20150901 US20150386294P 20151125 US20160252831 20160831 US20150387563P 20151224 US20160351740 20161115

Family:

Publication number	Publication date	Application number	Application date
US2017057333 AA	20170302	US20160252831	20160831
US2017144519 AA	20170525	US20160351740	20161115
WO17040619 A1	20170309	WO2016US49642	20160831

Probable Assignee: AERO IND INC

Assignee(s):(std)**:** AERO IND INC ; SEARFOSS TIMOTHY K

Inventor(s):(std)**:** SEARFOSS TIMOTHY K

Agent(s): BECK MICHAEL D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B60J11/00 B60J7/06 B60J7/08 B60J7/10 B60P7/04 (Advanced/Invention)

CPC: B60J7/085

US class: 296/225

Classification Explorer

Cited documents: US2008116209 AA, US2003193208 AA, US2002033615 AA, GB2401087 A1,

Abstract:
Source: US2017057333A An arm assembly for a cover system includes a force mechanism contained within a hollow arm of the assembly that includes a resiliently compressible element, such as a compression spring, with a cable or wire extending through the element. The cable is fastened at one end to an end cap that bears against one end of the compression spring. The opposite end of the cable is fastened to a base mounted to the container body. The base includes a pulley about which the cable is wound as the arm pivots relative to the base. As the arm pivots and the cable winds about the pulley, the end cap bears against the spring to compress the spring.

0) BR102015024333A – CALHA PARA CIRCULACAO DE AR EM VEICULOS AUTOMOT...

145) Family number: 65572461 (BR102015024333A) © PatBase

Title:	CALHA PARA CIRCULACAO DE AR EM VEICULOS AUTOMOTORES, COM PROTECAO CONTRA INSETOS TROUGH FOR CIRCULATION OF AIR IN AUTOMOTIVE VEHICLES, WITH PROTECTION AGAINST INSECTS (Machine translation)
Priority:	BR20151024333 20150922

Family:

Publication number	Publication date	Application number	Application date
BR102015024333 A2	20170328	BR20151024333	20150922

Probable Assignee:	REPRESENTACOES JOVIANNE LTDA ME
Assignee(s):(std)**:**	REPRESENTACOES JOVIANNE LTDA ME
Inventor(s):(std)**:**	JOAO VIEIRA DE GOUVEA FILHO
International class (IPC 8–9):	B60J1/20 (Advanced/Invention)

Classification Explorer

Abstract:
Source: BR102015024333A RESUMO "C4I.HA PARA C/RCU1ACAO Of AR FM t/E/CUIPS AUTOMOTORES, COM PROTECAO CO/VTRA /A/SETOS" A presente invencao refere–se a uma calha para a circulacao de ar em veiculos automotores, com protecao contra insetos. Trata–se de uma calha para ser acoplada nas janelas de caminhoes, onibus e veiculos utilitarios e de passeio, com o objetivo de permitir a circulacao de ar no interior de veiculos, com protecao contra insetos, pernilongos, mosquitos, besouros, mosquitos da dengue. A invencao tem sua aplicacao na industria de acessorios automobilisticos, principalmente caminhoes e onibus, com o objetivo de se manter a ventilacao no interior do veiculo, principalmente os veiculos que nao possuem equipamento de ar condicionado ou nos dias quentes de verao, evitando–se a entrada de insetos no interior do automovel. O invento permite a circulacao de ar, protegendo as pessoas em seu interior de contato com insetos, mesmo que os vidros do automovel estejam fechados. Abstract "c4i. Ha for C/RCU1ACAO of Air FM t/E/CUIPS Automotive, with protection CO/VTRA/A/SETOS" This Syed Ibraheem refers to a gutter for air circulation in automotive vehicles, with insect protection. This is a gutter to be coupled in the path windows, buses and Utilitarios and tour vehicles, aiming to allow air circulation within vehicles, with protection against insects, mosquitoes, mosquitoes, beetles, mosquitoes of dengue. Syed Ibraheem has its application in the industry of automobilisticos accessories, mainly pathways and buses, with the aim of maintaining the ventilation inside the vehicle, mainly vehicles that do not possess air conditioning equipment or on hot summer days, avoiding the entry of insects inside the automobile. The invention allows air circulation, protecting people in their inside of contact with insects, even if the car's windows are closed.

146) Family number: 66938931 (WO17153154A1) © PatBase

Title: ALIGNMENT AND APPLICATION OF A DOOR SEAL OF A MOTOR VEHICLE

Priority: DE201610203842 20160309

Family:

Publication number	Publication date	Application number	Application date
DE102016203842 A1	20170914	DE201610203842	20160309
WO17153154 A1	20170914	WO2017EP53760	20170220

Probable Assignee: BAYERISCHE MOTOREN WERKE AG

Assignee(s):(std)**:** BAYERISCHE MOTOREN WERKE AG

Inventor(s):(std)**:** BRUECKL THOMAS ; LANGGAERTNER LUKAS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B23P19/04 B25B27/00 B60J10/00 B62D65/06 (Advanced/Invention)

CPC: B23P19/047 B25B27/0092 B60J10/45 B62D65/06

Classification Explorer

Cited documents: WO11134994 A1, WO03018250 A1, EP2283964 A1,

DE102010051844 A1

DE10138141 A1, DE10131981 A1,

Abstract:
The invention relates to a device (1) for aligning a door seal (2) when the door seal (2) is applied to a door (3) of a motor vehicle (4), said device comprising a receiving device (5) for receiving the door (3) in a defined manner, a holding device (6) arranged on the receiving device (5) for holding the door (3), a guiding device (7) arranged on the receiving device (5) and having a guiding strip (8) for aligning the door seal (2) in relation to the door (3) when the door seal (2) is applied to the door (3), and a rotation device (9) for turning the receiving device (5) about at least one axis of rotation (10). The invention also relates to a system (20) and a method for applying a door seal (2) to a door (3) of a motor vehicle (4).

0) US2017259658A – VEHICLE DOOR LINING ASSEMBLY, AND METHODS OF US...

147) Family number: 66936160 (US2017259658A) © PatBase

Title: VEHICLE DOOR LINING ASSEMBLY, AND METHODS OF USE AND MANUFACTURE THEREOF

Priority: US20160067137 20160310

Family:

Publication number	Publication date	Application number	Application date
US2017259658 AA	20170914	US20160067137	20160310

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s):(std)**:** HONDA MOTOR CO LTD

Assignee(s): HONDA MOTOR CO

Inventor(s):(std)**:** DILLEY JASON ; SIA JR GENEROSO TAN

International class (IPC 8–9)**:** B60J10/36 B60J10/86 B60J5/04 E06B7/23 (Advanced/Invention)

CPC: B60J10/86 E06B7/2301 B60J5/047 B60J10/36

Classification Explorer

Abstract:
Source: US2017259658A Some embodiments are directed to a door lining assembly for use with a vehicle having a vehicle interior, a vehicle door, and weather–stripping configured to facilitate sealing of the door in a closed position. The door lining assembly can include a front portion connected to a lower section of the vehicle door. The front portion can include a flange that is connected to the weather–stripping. The door lining assembly can also include an elongated transition portion that extends in a vehicle longitudinal direction and is attached to the front portion and the lower section of the vehicle door. The transition portion can be structured to have a gradually varying depth in a lateral direction of the vehicle, such that one end of the transition portion that is connected to the front portion extends further into the vehicle interior than the opposite longitudinal end.