Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 5] (folding or folded) and (vehicle or car)

Results in EPODOC **37.790**

[SS 6] * and pulley+

Results in EPODOC **421**

[SS 7] * and PD<2017-02-22

Results in EPODOC **371**

[SS 8] * and motor

Results in EPODOC **94**

[SS 9] ..li 84-94

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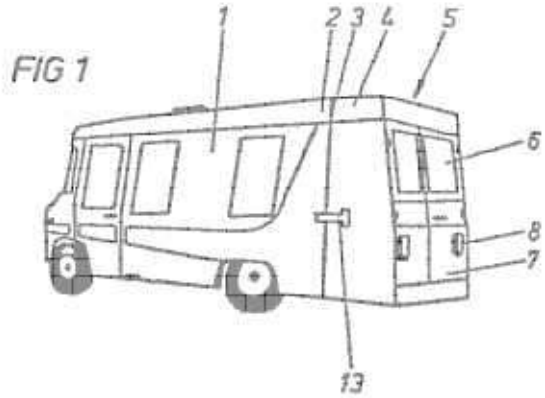
PN - EP0056978 A1 19820804

PR - DE19813101981 19810122

AP - EP19820100376 19820120

DT - *; Rep

CT - || STSE (A1)
US3257760 A 19660628
[X] (MAURICE CALTHORPE);
DE2923041 A1 19800514
[Y] (WOHN ART FREIZEITARTIKEL);
DE1784072U U 19590226
[A] (RAULINE MAURICE [FR]);
GB2009056 A 19790613
[A] (OLSEN DESIGN LTD);
US3888539 A 19750610
[A] (NIESSNER ROBERT A);
DE2836551 A1 19800306



[AD] (HARDENBERG GUENTHER GRAF VON);
FR1293652 A 19620518 [AD];
FR53871E E 19470110 [AD];
GB1265003 A 19720301 [AD]

CCI - B60P3/341

CCA - E05Y2900/512

PA - GUTZEIT JURGEN

TI - Utility **vehicle** with longitudinally extendible tail annex.

AB - The utility **vehicle** with longitudinally extendable tail annexe (5) is suitable to be a camper, camping trailer, lorry or the like. The tail annexe (5) consists of an annexe frame (3) attached to the rear of the **vehicle**, and a rear wall forming the rear of the tail annexe as well as of a concertina-like extendable **folding** floor, a closed tarpaulin being arranged between the annexe frame and the rear wall. The annexe frame (3) is connected releasably and detachably to the rear (2) of the **vehicle**, a **motor**-driven **pulley** or an hydraulically swivellable lifting strut being provided for retracting and extending the rear wall. <IMAGE>

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PN - DE19916709 C1 20000217

PR - DE1999116709 19990414

AP - DE1999116709 19990414

DT - *

CT - DE19607060 C1 [ ]; DE4342438 A1 [ ];
DE3602298 A1 [ ]

CCI - B60N2/305 ; B60N2/3011

PA - FAURE BERTRAND SITZTECH GMBH [DE]

TI - Adjustable seat cushion and seat back for use in **motor vehicle** incorporates control system with wires, latches and **pulleys**

AB - The seat cushion (1) and the seat back (2) may be put into an operative position and

may also be **folded** up. A first control switch (30) is connected via wires (32) to a second switch (31) connected (34) in turn to a **motor** (17). The **motor** winds first and second wires onto a spindle. The first wire (23) passes round a spring-loaded **pulley** (25) on the front of the seat cushion and goes via a second **pulley** (26) to the end of a first pawl (11.2) to release it. A third wire (10) is connected to a second pawl (8). As the first wire is reeled in to release the pawls and pull in the front of the seat cushion against the spring, the second wire (24) is paid out to allow the seat back to hinge forward.

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PN - DE4023105 A1 19910808

PR - DE19904023105 19900720

AP - DE19904023105 19900720

DT - *

CT - DE3723027 C1 [ ]; DE3624156 C1 [ ]; DE247203 C [ ]; DE8515777U U1 [ ]

CCI - B60N3/002

PA - DAIMLER BENZ AG [DE]

TI - **Folding** table for use in **motor vehicle** - has gas spring which acts as damper and as support

AB - The **folding** table is for use in a **motor vehicle**. The table panel (16) is supported on each side in a bearing block (18) so that the panel (16) can be swung about a horizontal axis. Each bearing block (18) slides in a vertical guide channel (19). The panel (16) is actuated by a gas spring (51), a cable (57) and **pulleys** (59, 69). The gas spring (51) functions as a damper when the table is in its stowed position. When the table is in its use position, the gas spring (51) provides additional support to the panel (16). USE - Table for use in a **motor vehicle**.

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PN - DE3632877 A1 19880331

PR - DE19863632877 19860926

AP - DE19863632877 19860926

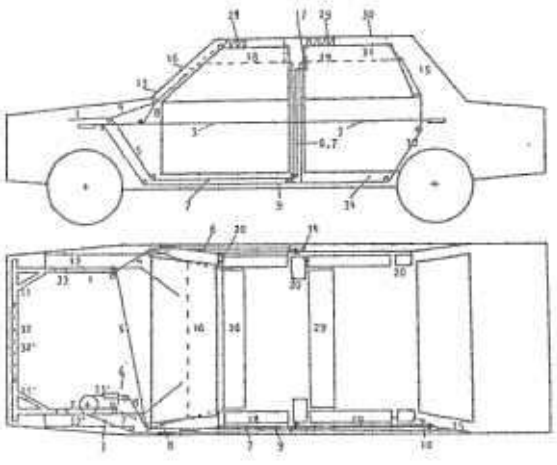
DT - *

CCI - B60R21/08

PA - SADLER NORBERT [DE]

TI - Devices in **motor** vehicles for increasing the safety of **motor vehicle** occupants

AB - Fig. 1 shows an example of on the one hand an arrangement to transmit central and eccentric shocks resulting from frontal collisions by means of a shock absorber (11) to the main tension means (1, 2) after



longitudinal transmission of the latter by means of a **pulley** block (33) and the connection of the auxiliary tension means (4, 5, 6, 7) which are fixedly connected to the rebound films (16, 17) and accommodation of the latter in the form of **folded** bundles (28, 29) and on the other hand shows an arrangement for transmitting lateral shocks arising during a collision by the main tension means (3) after longitudinal transmission (33') of the latter, and connection of the auxiliary tension means (8, 9, 10) which are fixedly connected to the lateral rebound film bundles(18, 19). <IMAGE>

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PN - DE3121690 A1 19821216

PR - DE19813121690 19810601

AP - DE19813121690 19810601

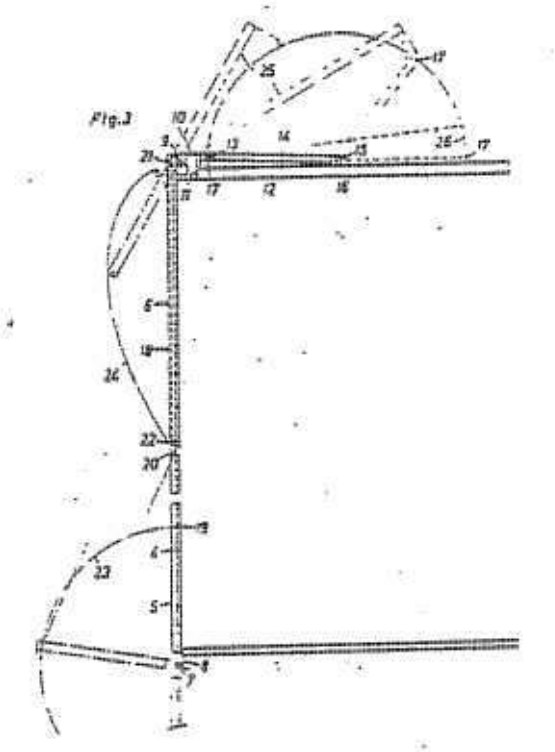
DT - *

CCI - B60J5/0498

PA - KOEGEL GMBH FAHRZEUG [DE]

TI - Split lift gate

AB - In a split lift gate for covered **motor**-**vehicle** bodies, a design is striven for which, on the one hand, does not use any internal space of the respective body and, on the other hand, is insensitive to snow loading. This is achieved if the upper gate part (6), held at least at the front and rear, is supported by deflection **pulleys** (9) mounted on the roof edge (cf. 12), and if the said part (6) projects slightly beyond the roof (12) or these **pulleys** (9), at least in the region thereof. This is furthermore achieved if an articulated strut (14), lying transversely to the body, engages



in a hinged manner (cf. 17) on each of the projecting parts (cf. 10) and the free end of said strut finds its abutment in a positionally fixed roof bearing block (15) and if the opening movement is initiated by raising the upper gate part (6), this raising taking place either by **folding** down the lower gate part (5) or by using external force. <IMAGE>

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PN - **CN2913297Y** Y 20070620

PR - CN2006206292U 20060223

AP - CN2006206292U 20060223

DT - I

PA - WU KAIYA [CN]

TI - Automatic cloth-spreading **vehicle**

AB - The utility model relates to an automatic cloth spreading **vehicle**, which consists of a cloth platform, a rolling device, a corresponding rubber baton, a corresponding gear, an electric **motor** box, a reversible switch, a wheel, a wheel rolling axis, a travel switch, a contact and an automatic pressure cloth folder. The cloth platform is arranged in the upper part of the automatic cloth spreading **vehicle**. The rolling axis is arranged on the cloth platform. A group of corresponding rubber batons is arranged below the cloth platform. The bearing of the corresponding rubber baton is connected with the corresponding gear which is connected with a belt **pulley**. The cloth is arranged on the rolling axis on the cloth platform, and one end of the cloth which droops is downwardly **folded** by the corresponding rubber baton. The automatic cloth spreading **vehicle** which is labor-saving reduces the labor intensity and has uniform cloth spreading.

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PN - **CN2846224Y** Y 20061213

PR - CN2005293501U 20051114

AP - CN2005293501U 20051114

DT - I

PA - SHI NUO [CN]

TI - Automatic **folding** and display warning board

AB - The utility model relates to an automatic **folding** display warning board, which comprises a warning board. The utility model is characterized in that the warning board is at least provided with a pull rope, wherein one end of the pull rope is connected with a **folding** display device which is arranged on a **motor vehicle**; the lower end of the warning board is provided with a mobile device; the **folding** display device uses that an output shaft of a **motor** is provided with a rotating wheel; the other end of

the pull rope is fixed on the rotating wheel; when the warning board is required for being displayed, the **motor** drives the rotating wheel to rotate so that the pull rope is released, the warning board is arranged on the ground, and the **motor vehicle** can be slowly forwards moved, so that the warning board is arranged at the proper position behind the **vehicle**; when the warning board is required for being **folded**, the rotating wheel is reversely rotated to fold the pull rope, and the pull rope drives the warning board to move towards the direction of a **vehicle** body; the **folded** warning board can be artificially arranged in the **vehicle**, and can be directly arranged on a chassis of the **vehicle** body; the mobile device at the lower end of the warning board can use a **pulley** wheel. The warning plate has the advantages of simple structure, convenience and practicality. The rotating direction of the rotating wheel can be conveniently controlled in a driving room by drivers, so that a displaying act or a **folding** act of the warning board can be realized.

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PN - **CN2902993Y** Y 20070523

PR - CN2005252193U 20051020

AP - CN2005252193U 20051020

DT - I

PA - HUNAN HAINUO ELEVATOR CO LTD [CN]

TI - Machine room less elevator

AB - Disclosed is a elevator without a machine room, comprising a elevator **car** (10), a safety guard (18) for maintaining the elevator top, a elevator **car** guide rail bracket (14), a shared guide rail bracket (6) for the guide rail of the elevator **car** and the guide rail of a counterweight driving device. A **pulley** component (17) is fixed to a spandrel girder (16). The spandrel girder (16) is arranged on two elevator **car** guide rails (10), two counterweight guide rails (3) and the prop of a glass elevator shaft (2) and supported by the above device together. One end of a wire rope (20) is connected with an elevator **car** (9) and the other end is connected with the counterweight driving device (4) through the **pulley** components (17). The elevator also includes a **folding** toe guard (19) arranged on an upper layer gate (12) of the elevator shaft and fixed to the door bank of the floor of the elevator **car** (9), a door-**motor** system installed on an upper elevator door (13), a control cabinet (15) and a pit **folding** buffer supporting (11) fixed to the center line of a pit elevator **car**, and is installed in the elevator shaft (2). The utility has the advantages that the machine room can be changed to an available space without the machine room design, further saving the space.

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PN - **CN1702269** A 20051130

PR - CN2005143642 20050603

AP - CN2005143642 20050603

DT - I

PA - WANG DONGMAN [CN]

TI - Feeder with single arm and soft rail

AB - This invention relates to a more piece soft rail charger used in engineering, characterized in that it applies the telescopic more section single-arm as supporting,

and applies steel cable in the sides of lever arm as rail. The using method comprises the following steps: a) fixing the frame and chassis, pulling out the boom and steel cable through **motor**, which meets the needed height and inclination; b) straining the steel cable through the tension **pulley**, pouring the stirred material into the **car**; c) opening the **motor**, driving the buggy moving upwards along the steel cable; when arriving a certain place in the top, the rigid **folding** arm will rotates anticlockwise around the revolution axis; the rear axle is hooked to prevent dumping; d) after pouring out material, reversing rotating the **motor**, the rigid **folding** arm will return to the normal place in the pull of spring, and the buggy will move downwards under dead weight until reach to the bottom, then repeating the same procedure.

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PN - CN2564398Y Y 20030806

PR - CN2002243320U 20020723

AP - CN2002243320U 20020723

DT - I

PA - LIAN JIANPING [CN]

TI - Automobile sunshade curtain

AB - The utility model relates to a novel **car** sunscreen curtain, comprising a **motor**, a curtain cloth, a tube pedestal, a driving component and a connecting component. The **motor** is in transmission connection with the driving component; the upper side end of the curtain cloth is connected with the driving component; the displacement of the driving component lifts the curtain cloth to cover the **car** window; or the curtain cloth can be **folded** in the tube pedestal; the driving component moves along the tube pedestal; the driving component is composed of a plurality of gliding blocks which are in pivot connection; a hook buckle is arranged at the front side of the sliding block main body; a card groove is arranged at the center of the back end of the sliding block main body; the hook buckle is embedded into the card groove; a buckle rod is arranged laterally in the card groove; a card pressing block is formed at the side plate at the opening of the hook buckle; a card step groove is arranged on the card groove; two sliding block hook buckles and the buckle rod hook buckles form a driving component; the **pulley** belt of the driving component is driven to rotate by the **motor** so that the driving component is lifted or descended along the rail outside the tube pedestal; consequently, the curtain cloth fixed at the end of the driving component is lifted or descended to achieve the effect of electrical control of the **car** window sunscreen. The tube pedestal has elasticity so that the curtain cloth can be supported and lifted along with the tube pedestal; besides, the lifted length can be regulated.

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PN - CN2438600Y Y 20010711

PR - CN2000210066U 20000823

AP - CN2000210066U 20000823

DT - I

PA - XIAO MING [CN]

TI - **Vehicle** roof take-up & extending structure

AB - The utility model relates to a **vehicle** roof take-up & extending structure, which solves

the problems of **folding** structure roof of the existing **vehicle** such as a jeep, such as the roof can not be taken up or extended freely, and opening space is occupied. The utility model is characterized in that a horizontal frame on a main frame of the utility model is provided with a chute; a transmission mechanism is formed by the connection of a **pulley**, a rotating shaft, a rotating wheel, a gear wheel arranged on the end of a **motor**, a traction rope and top fabric, wherein, the rotating shaft is positioned on a bracket which is fixed on a chassis of the **vehicle**. The utility model has the advantages that the use is convenient; the top fabric is turned to the tail of the **vehicle** when the top fabric is opened, so no space is occupied.

[SS 9]