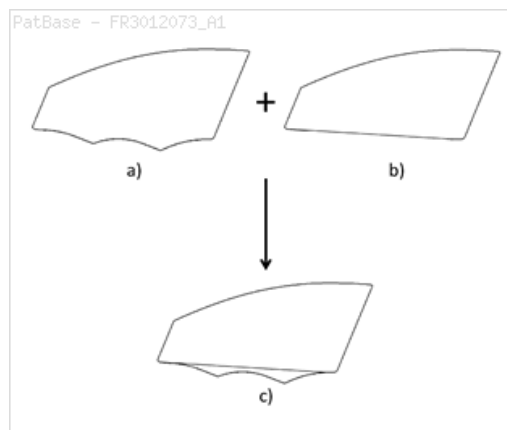


1) Family number: 59089091 (FR3012073A)

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Title: VITRAGE FEUILLETE ASYMETRIQUE GLASS LAMINATED ASYMETRIQUE (Machine translation)

Abstract: Source: FR3012073A [FR] L'invention concerne un vitrage feuilleté bombe lateral ouvrant de vehicule comprenant une feuille de verre exterieure et une feuille de verre interieure, la feuille de verre interieure etant plus mince que la feuille de verre exterieure. L'invention concerne egalement un procede de fabrication du vitrage feuilleté, lequel peut faire intervenir un bombage a froid de la feuille interieure mince. **Machine translation:** A bomb laminated glazing lateral opening including a vehicle outer glass sheet and an inner sheet of glass, the inner glass sheet being thinner than the outer glass sheet. The invention also concerns a manufacturing process glazing laminate, which may involve a cold bending of the thin inner leaf.

Classifications:**International (IPC 8-9):** B32B17/10 B60J1/12 (Advanced/Invention)**CPC:** B32B17/10761 B32B17/10036 B32B17/10137 B32B17/10091**Family:**

Publication number	Publication date	Application number	Application date
FR3012073 A1	20150424	FR20130060352	20131023

Priority:

FR20130060352 20131023

Probable Assignee:

SAINT GOBAIN SA

Assignee(s): (std):

SAINT GOBAIN ; SAINT GOBAIN SA

Assignee(s):

SAINT GOBAIN GLASS FRANCE

Inventor(s): (std):

FREBOURG PHILIPPE ; PICARD STEPHANE

Inventor(s):

STEPHANE PICARD ; PHILIPPE FREBOURG

Agent(s):

SAINT GOBAIN RECHERCHE

2) Family number: 52731143 (US2014141206A)

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Title: GLAZING FOR MOTOR VEHICLES

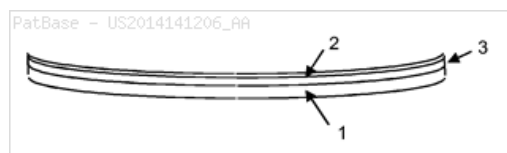
Abstract: The invention relates to a laminated glass panel for an automobile, having a curved shape resulting from the assembly of a first glass sheet, which is curved before said assembly, with an intermediate thermoplastic sheet and a second glass sheet, the thickness of which does not exceed one third of that of the first sheet, the second glass sheet not being curved, or having a curvature that is substantially smaller than that of the first sheet before the assembly thereof with the latter and the intermediate thermoplastic sheet.

Classifications:**International (IPC 8-9):** B32B17/10 B60J1/00

C03C27/12 (Advanced/Invention)

International (IPC 1-7): B32B17/10**CPC:** B32B17/10761 B32B17/10816 B32B17/10889 B60J1/008

B32B17/10036 Y10T428/24628

US: 428/174**Family:**

Publication number	Publication date	Application number	Application date
BE1020051 AD	20130402	BE20110000415	20110704
CN103635315 A	20140312	CN201280033171	20120618
CN103635315 B	20160706	CN201280033171	20120618
DE602012049442 D1	20180906	DE201260049442T	20120618
EA027002 B1	20170630	EA20140090203	20120618
EA201490203 A1	20140630	EA20140090203	20120618
EP2729303 A1	20140514	EP20120729524	20120618
EP2729303 B1	20180808	EP20120729524	20120618
JP2014527011 T2	20141009	JP20140517586T	20120618

JP6031099 B2	20161124	JP20140517586T	20120618
US2014141206 AA	20140522	US20120130787	20120618
WO13004473 A1	20130110	WO2012EP61557	20120618

Priority:

BE20110000415 20110704 EP20120729524 20120618 WO2012EP61557 20120618

Probable Assignee: AGC GLASS EUROPE

Assignee(s): (std): GILLARD QUENTIN ; HUBERT RENAUD ; LECOMTE BENOIT ; LOSOT ROSTISLAV ; LUCCA NERIO ; AGC GLASS EUROPE

Assignee(s): AGC GLASS EUROPE SA

Inventor(s): (std): LOSOT ROSTISLAV ; HUBERT RENAUD ; GILLARD QUENTIN ; LECOMTE BENOIT ; LUCCA NERIO ; RENAUD HUBERT

Agent(s): LE VAGUERES SYLVAIN JACQUES; LE VAGUERES SYLVAIN

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

3) Family number: 57310269 (WO14131972A1)

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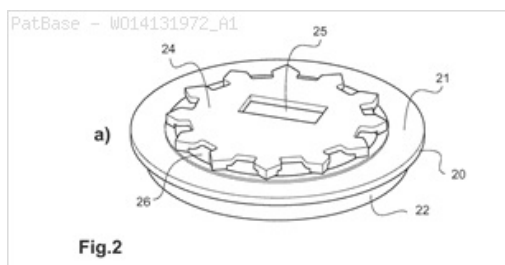
Title: REINFORCEMENT FOR A HOLE IN GLAZING

Abstract: The invention relates to glazing comprising a glass substrate including a sheet of mineral glass, said glass substrate comprising a through-hole. According to the invention, a reinforcement is bonded to a main face of the glass substrate along a bonding land surrounding the through-hole. The region of the through-hole is thus reinforced. The reinforcement may comprise a housing formed at least in part by a hole, said housing receiving an electronic circuit bearing an LED, the LED illuminating the edge face of the through-hole. The invention is suitable for a lighting device for a motor vehicle passenger compartment.

Classifications:

International (IPC 8-9): B32B17/10 B60J7/00 B60Q3/02 B60Q3/208 B60Q3/50 B60Q3/74 B62D25/06 C03B33/00 F21V23/00 F21V8/00 (Advanced/Invention); F21V23/00 (Advanced/Non-invention); B60Q3/02 (Core/Invention)

CPC: B32B17/10293 B32B17/10541 B60Q3/208



Family:

Publication number	Publication date	Application number	Application date
BR112015018792 A2	20170718	BR20151118792	20140224
CA2902124 AA	20150821	CA20142902124	20140224
CN104203651 A	20141210	CN201480000599	20140224
CN104203651 B	20190430	CN201480000599	20140224
EA031380 B1	20181228	EA20150091589	20140224
EA201591589 A1	20151230	EA20150091589	20140224
EP2961634 A1	20160106	EP20140718636	20140224
FR3002528 A1	20140829	FR20130051662	20130226
FR3002528 B1	20151009	FR20130051662	20130226
ID201700327 A	20170127	ID2015P0005175	20140224
IN07162DN2015 A	20160101	IN2015DN07162	20150813
JP2016515059 T2	20160526	JP20150558533T	20140224
JP6557149 B2	20190807	JP20150558533T	20140224
KR20150125933 A	20151110	KR20150722641	20140224
MX2015011023 A1	20151022	MX20150011023	20140224
TH171949 A	20180104	TH20151004818	20140224
WO14131972 A1	20140904	WO2014FR50381	20140224

Priority:

FR20130051662 20130226 WO2014FR50381 20140224

Probable Assignee: SAINT GOBAIN SA

Assignee(s): (std): SAINT GOBAIN ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE ; CLAUSE THOMAS ; HENNION ALEXANDRE

Inventor(s): (std): HENNION ALEXANDRE ; CLAUSE THOMAS ; ALEXANDRE HENNION ; THOMAS CLAUSE

Agent(s): GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP; COLOMBIER CHRISTIAN; SAINT GOBAIN RECHERCHE; IR MIGNI MYRIASANDRA MIP MSEL; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI

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

4) Family number: 62569273 (US2017336175A)

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Title: ARMORED GLAZING MANUFACTURED FROM MASS-PRODUCED LAMINATED GLAZING CONSTITUENTS

Abstract: A process for manufacturing a light armored curved laminated glazing intended to be fitted in an opening of a transport vehicle suitable for the mass-production fitting of a curved laminated glazing containing two glass sheets, wherein use is made of at least three constituent curved glass sheets of such mass-produced curved laminated glazing containing two glass sheets, including both sheets from one and the same such mass-produced curved laminated glazing containing two glass sheets, which have been previously bent together.

Classifications:

International (IPC 8-9): B32B17/10 F41H5/04 F41H5/26 (Advanced/Invention)

CPC: B32B17/10009 B32B17/10761 B32B17/10788 B32B17/10743 B32B2367/00 B32B17/10036 B32B2571/02 B32B2309/105 F41H5/0407 B32B17/10045 B32B17/1077 B32B2250/04 B32B2369/00

US: 1/1 89/36.02

Family:

Publication number	Publication date	Application number	Application date
BR112017010124 A2	20180130	BR20171110124	20151201
CN107003100 A	20170801	CN201580065683	20151201
CO20170005539 A2	20170818	CO20170005539	20170602
EP3227112 A1	20171011	EP20150817959	20151201
FR3029454 A1	20160610	FR20140061900	20141204
IN201717016067 A	20170929	IN201717016067	20170508
MX2017007029 A1	20170824	MX20170007029	20151201
US2017336175 AA	20171123	US20150532611	20151201
WO16087764 A1	20160609	WO2015FR53274	20151201

Priority:

FR20140061900 20141204 WO2015FR53274 20151201

Probable Assignee: SAINT GOBAIN SA

Assignee(s): (std): SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN SA

Inventor(s): (std): BOUIGEON CHRISTIAN ; CHAUSSADE PIERRE ; CHRISTIAN BOUIGEON ; PIERRE CHAUSSADE

Agent(s): MARGARITA CASTELLANOS ABONDANO; 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 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

5) Family number: 15372469 (WO0136256A1)

© PatBase

Title: GLASS PANEL ADAPTED TO BE CLIPPED ONTO A RIGID FRAME

Abstract: The invention concerns a method for mounting a glass panel in a housing corresponding to a rigid frame, which comprises temporary elastic deformation of the glass panel to achieve dimensions compatible with those of the housing wherein it is to be inserted; positioning in the housing; and slackening the forces causing the glass panel to be deformed, slackening which enables the glass panel to recover its initial shape. The inventive mounting method is useful in particular for inserting a U-shaped glass panel, which cannot be mounted by standard methods.

Classifications:

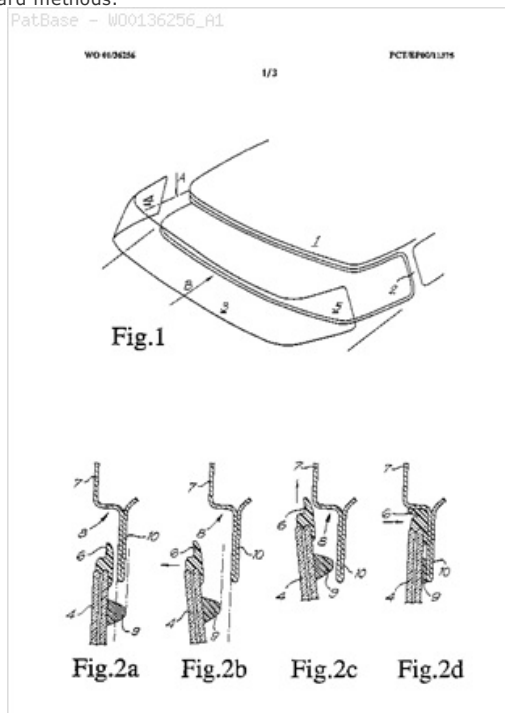
International (IPC 8-9): B32B17/10 B60J1/00 (Advanced/Invention);

B32B17/06 B60J1/00 (Core/Invention)

International (IPC 1-7): B60J1/00 B60J1/02 B60J1/18 B60J10/02 B62D B62D65/00

CPC: B32B17/10036 B32B17/10302 B60J1/005

European: B32B17/10C4 B32B17/10E16B B60J1/00F2



Family:

Publication number	Publication date	Application number	Application date
AU200117020 A1	20010530	AU20010017020	20001114
AU200117020 A5	20010530	AU20010017020	20001114
BE1013144 AD	20011002	BE19990000753	19991119
WO0136256 A1	20010525	WO2000EP11375	20001114

Priority:

Probable Assignee: GLAVERBEL**Assignee(s):** (std): GLAVERBEL ; LEGRAND DENIS**Inventor(s):** (std): DENIS LEGRAND ; LEGRAND DENIS**Designated states:** AE AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CR CU CY CZ DE DK DM 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 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**6) Family number: 13539540 (US5451280A)**

© PatBase

Title: PROCESS FOR THE PRODUCTION OF A CURVED, LAMINATED GLAZING, IN PARTICULAR A CAR GLAZING

Abstract: A curved, laminated car glazing having a decorative enamel coating formed as a frame along the edge of a laminated glazing, on a surface adjacent to the intermediate, thermoplastic layer of one of the individual glass sheets is prepared by printing an enamel as the decorative coating on a glass sheet, which is then dried, printing an enamel containing metallic silver as a narrow strip on the decorative coating, firing or baking the coated glass sheet, superimposing the baked glass sheet with a mating glass sheet with the printed coating on the inside, and with the result that the bent sheets do not stick together because of the presence of the silver-containing strip, and completing the lamination of the curved glass sheets.

Classifications:**International (IPC 8-9):** B32B17/10 B60J1/00 C03B40/033

C03C27/12 H05B3/86 (Advanced/Invention);

B32B17/10 C03B40/033 C03C27/12 (Advanced/Non-invention);

B32B17/06 B60J1/00 C03B40/00 C03C27/12

H05B3/84 (Core/Invention)

International (IPC 1-7): B32B17/06 B32B17/10 B60J1/00 B60J3/00

C03B40/00 C03B40/033 C03C17/06 C03C17/34 C03C27/10

C03C27/12 C03C8/18

CPC: B32B17/10348 B32B17/10036 B32B17/10174 B32B17/10247

B32B17/10889 B32B17/10935 H05B3/86 H05B2203/017

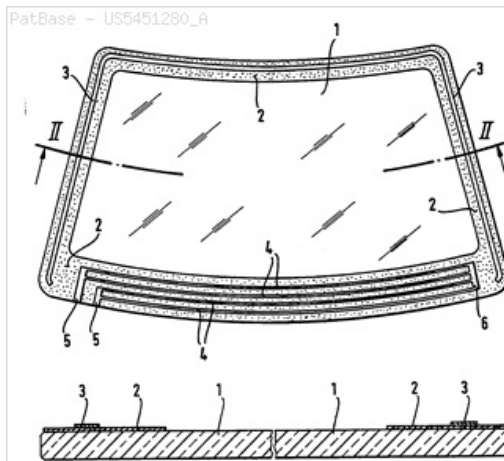
H05B2203/031

European: B32B17/10C4 B32B17/10E10 B32B17/10E12

B32B17/10L14 B32B17/10L16F H05B3/86 T05B203/017 T05B203/031

US: 106/1.18 156/100 156/106 252/514 427/108 427/165 427/269

427/380 501/19 65/106 65/24 65/60.2 65/60.53 65/602

**Family:**

Publication number	Publication date	Application number	Application date
DE4316575 C1	19940707	DE19934316575	19930518
DE69414300 D1	19981210	DE19946014300	19940510
EP0625422 A1	19941123	EP19940401031	19940510
EP0625422 B1	19981104	EP19940401031	19940510
FI942286 A	19941119	FI19940002286	19940517
FI942286 A0	19940517	FI19940002286	19940517
JP7048151 A2	19950221	JP19940102757	19940517
KR19940025971 A	19941208	KR19940010631	19940513
US5451280 A	19950919	US19940245036	19940517

Priority:

DE19934316575 19930518

DE19946014300 19940510

Probable Assignee: SAINT GOBAIN SA**Assignee(s):** (std): SAINT GOBAIN VITRAGE INT ; SAINT GOBAIN VITRAGE ; GLASWERKE GMBH VER ; SAINT GOBAIN GLASS FRANCE ; VER GLASWERKE GMBH**Assignee(s):** SAINT GOBAIN SA ; SAINT GOBAIN BITORAAJIYU INTERNATL ; SAINT GOBAIN VITRAGE INTERNATIONAL ; VEGLA VEREINIGTE GLASWERKE GMBH 52066 AACHEN ; SAINT GOBAIN VITRAGE COURBEVOIE FR ; VEGLA VEREINIGTE GLASWERKE GMBH ; VEGLA VER GLASWERKE GMBH 52066 AACHEN**Inventor(s):** (std): GILLNER MANFRED ; MANFURETSUTO GIRUNAA**Inventor(s):** GILLNER MANFRED D 5100 AACHEN DE ; GILLNER MANFRED 5100 AACHEN**Designated states:** BE DE ES FR GB IT LU NL PT SE**7) Family number: 57697578 (US2017291842A)**

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Title: LAMINATED GLAZING

Abstract: Methods of making a laminated glazing having reduced optical distortion when installed in a vehicle are described. The laminated glazing has first and second sheets of glazing material each separately shaped between a pair of shaping members that are then laminated together. The position for bending the first sheet of glazing material may be deliberately offset from the position for bending the second sheet of glazing material. During the lamination step, the first sheet of glazing material may be displaced relative to the second sheet of glazing material by a lateral and/or longitudinal positional displacement. The first and/or second sheet of glazing material may have been cut such that after lamination at least a portion of the peripheral edges thereof are aligned. Apparatus for shaping a sheet of glazing material for carrying out the aforementioned methods is also described, as is a resulting laminated glazing.

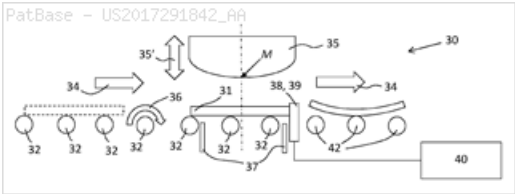
Classifications:**International (IPC 8-9):** B32B17/06 B32B17/10 B32B3/02

B32B37/12 B60J1/00 C03B23/03 C03B35/16

C03C27/12 (Advanced/Invention)

International (IPC 1-7): B32B17/10 C03B23/03 C03B35/16

CPC: B32B17/10761 Y02P40/51 B32B17/1055 C03B23/03
B32B17/10036 B32B17/10889 C03B2225/02
US: 1/1 65/287



Family:

Publication number	Publication date	Application number	Application date
BR112017003607 A2	20171128	BR20171103607	20150826
CN106794688 A	20170531	CN201580052605	20150826
EP3186204 A1	20170705	EP20150757551	20150826
GB201415163 A0	20141008	GB20140015163	20140827
JP2017533159 T2	20171109	JP20170511167T	20150826
KR20170045242 A	20170426	KR20177006415	20150826
US2017291842 AA	20171012	US20150507150	20150826
WO16030678 A1	20160303	WO2015GB52460	20150826

Priority:

GB20140015163 20140827 WO2015GB52460 20150826

Probable Assignee: PILKINGTON GROUP LTD

Assignee(s): (std): PILKINGTON GROUP LTD

Inventor(s): (std): PAULUS PETER ; PILZ JOACHIM ; PETER PAULUS ; JOACHIM PILZ

Agent(s): STANLEY ANDREW THOMAS; STANLEY ANDREW THOMAS 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

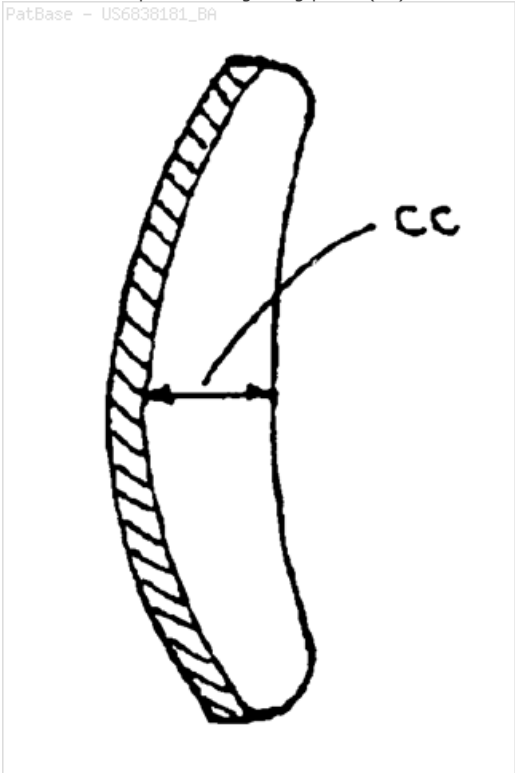
8) Family number: 23373975 (US6838181B) © PatBase

Title: GLAZING

Abstract: A curved laminated automotive glazing panel (10) having a radius of curvature at at least one portion that is less than 500 mm has a glazing panel which is provided with a solar control coating layer (25) positioned at its convex internal surface (11) and in which the coating stack comprises at least two space sputtered silver containing layers initially deposited on a substantially flat sheet of glazing material which is subsequently bent to form a part of the glazing panel (10).

Classifications:

International (IPC 8-9): B32B17/10 B32B37/00 B60J1/00 C03C17/36 C03C27/12 (Advanced/Invention); B32B37/00 B60J1/00 C03C17/36 C03C27/12 (Advanced/Non-invention)
International (IPC 1-7): B32B1/10 B32B17/06 B32B17/10 B60J1/00 C03C17/36 C03C27/12 C23C14/32
CPC: Y10T428/24917 B32B17/10229 B32B17/10036 B32B17/10981
European: B32B17/10C4 B32B17/10E10M2 B32B17/10L22
US: 204/192.15 204/192.26 428/209 428/426 428/432 428/433 428/434



Family:

Publication number	Publication date	Application number	Application date
AT403545 E	20080815	AT20000960508T	20000821
AU200072791 A1	20010319	AU20000072791	20000821
AU200072791 A5	20010319	AU20000072791	20000821
BRPI0013831 A	20020423	BR2000PI13831	20000821
DE60039774 D1	20080918	DE20006039774	20000821
EP1216147 A1	20020626	EP20000960508	20000821

EP1216147 B1	20080806	EP20000960508	20000821
JP2003507305 T2	20030225	JP20010518254T	20000821
US6838181 BA	20050104	US20020069130	20020313
WO0114136 A1	20010301	WO2000EP08205	20000821

Priority:

EP19990202757 19990826 EP20000960508 20000821 WO2000EP08205 20000821

Probable Assignee: GLAVERBEL SA

Assignee(s): (std): AGC FLAT GLASS EUROP S A ; AGC FLAT GLASS EUROPE SA ; DEGAND ETIENNE ; GLAVERBEL

Assignee(s): GLAVERBEL CHAUSSEE DE LA HULPE SA ; GLAVERBEL SA ; AGC GLASS EUROPE SA ; AGC GLASS EUROPE ; AGC FLAT GLASS EUROPE S A

Inventor(s): (std): DEGAND ETIENNE

Inventor(s): ETIENNE DEGAND

Agent(s): DECAMPS ALAIN RENE FRANCOIS ET AL

Designated states: AE AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CR CU CY CZ DE DK DM 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 LI LK LR LS LT LU LV MA MC MD MG MK MN MW MX 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