

Search history

Search 1: FT=(glass and (((suspended 3w particle) 3w device) or SPD)) (Results 4463)
Search 2: FT=(glass and (((suspended 3w particle) 3w device) or SPD)) or (((polymer 3w dispersed) 3w liquid) 3w crystal) or PDLC)) (Results 8721)
Search 3: 2 and (windshield or windscreen) (Results 339)
Search 4: 3 and PD<20171210 (Results 280)
Search 5: RF=(NC20180000586) (Results 10)

Title: GLAZING WITH VARIABLE OPTICAL AND/OR ENERGETIC PROPERTIES

Abstract: A glazing is described, which includes at least one active layer and at least one reflecting coating on the active layer. A pane, partition, mirror, or door is also described that includes the glazing. A method for making is also described. The glazing exhibits superior thermal and radiative durability, and is capable of modulating the optical appearance of the active layer.

Classifications:

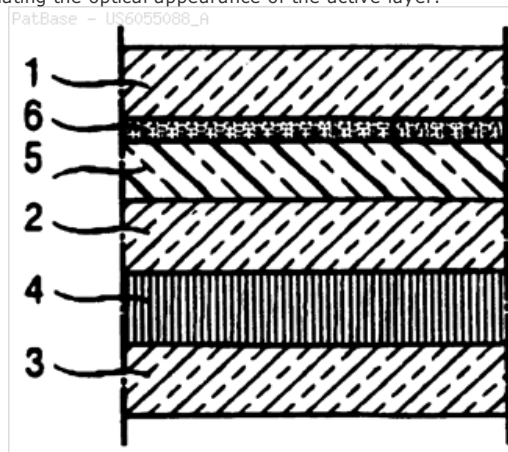
International (IPC 8-9): B32B17/06 B32B17/10 B32B7/02 C03C17/34 C03C17/36 G02F1/157 (Advanced/Invention); G02F1/1334 G02F1/1335 (Advanced/Non-invention)

International (IPC 1-7): B32B17/06 B32B7/02 C03C17/34 C03C17/36 G02F1/13 G02F1/15 G02F1/157 H01J3/00

CPC: B32B17/1077 B32B17/10 B32B17/10036 B32B17/10055 B32B17/1011 B32B17/10174 B32B17/10504 B32B17/10513 B32B17/10761 B32B17/10788 B60J3/04 C03C17/3435 C03C17/36 C03C17/3613 C03C17/3618 C03C17/3639 C03C17/3642 C03C17/3644 C03C17/3652 C03C17/366 C03C17/3663 C03C17/3681 C03C2217/78 G02F1/1334 G02F1/133509 G02F1/157 E06B9/24 E06B2009/2411 E06B2009/2464

European: B32B17/10 B32B17/10C26 B32B17/10C4 B32B17/10C4B4 B32B17/10E10 B32B17/10E40D62 B32B17/10E40D64 B32B17/10G28 B32B17/10G30 B32B17/10G36 B60J3/04 C03C17/34D4B C03C17/36 C03C17/36B316 C03C17/36B320 C03C17/36B339 C03C17/36B340 C03C17/36B342 C03C17/36B346 C03C17/36B352L C03C17/36B352M C03C17/36B356 G02F1/157 M03C217/780 S02F1/1334 S02F1/1335F

US: 349/16 349/195 359/241 359/265 359/267 359/273 359/275



Family:

Publication number	Publication date	Application number	Application date
EP0825478 A1	19980225	EP19970401957	19970821
FR2752570 A1	19980227	FR19960010344	19960822
FR2752570 B1	19981002	FR19960010344	19960822
JP10114007 A2	19980506	JP19970225163	19970821
MX9706436 A1	19980731	MX19970006436	19970822
US6055088 A	20000425	US19970916234	19970822
US6466298 BA	20021015	US20000534318	20000324

Priority:

FR19960010344 19960822 US19970916234 19970822 US20000534318 20000324

Probable Assignee: SAINT GOBAIN GLASS FRANCE

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

Inventor(s): (std): FIX RENAUD ; GUISELIN OLIVIER ; LIN XUE YUN ; LIN XUEYUN ; YUN LIN XUC ; RENAUD FIX ; OLIVIER GUISELIN

Inventor(s): LIN XUC YUN

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

Title: METHOD AND DEVICE FOR CONTROLLING VOLTAGE PROVIDED TO A SUSPENDED PARTICLE DEVICE

Abstract: A voltage controlling device includes an AC terminal receiving an AC voltage signal, a voltage dividing device adapted to divide the AC voltage signal into a plurality of distinct voltage signals within a predetermined range, a controller adapted to control the voltage dividing device to provide a selected voltage level based on voltage level information and an SPD terminal for providing the selected voltage level to a suspended particle device. Voltage level information may be provided via an input device and/or from a photocell that monitors a light level at the suspended particle device. A separate AC power supply may also be provided. The controller may also monitor an SPD load voltage to control the voltage level provided to the SPD terminal in order to prevent shocking of a user.

Classifications:

International (IPC 8-9): G02B26/00 G02B26/02 G02F1/167 G02F1/17

H02M5/08 H02M5/12 H02M5/27 (Advanced/Invention);

G02B26/00 H02M5/12 H02M5/27 (Advanced/Non-invention);

G02B26/00 G02B26/02 G02F1/01 (Core/Invention)

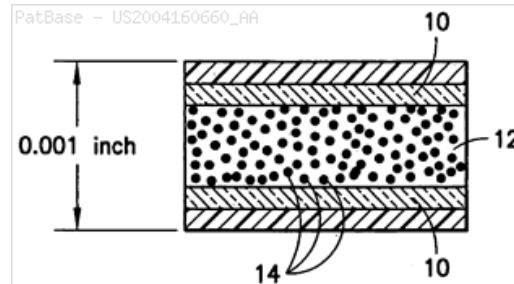
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H02M3/07 H02M7/48

CPC: G02B26/004 G02F1/172

European: G02B26/00L G02F1/17A

US: 359/296 359/296P



Family:

Publication number	Publication date	Application number	Application date
AU2004214865 AA	20040910	AU20040214865	20040209
AU2004214865 BB	20090226	AU20040214865	20040209
EP1599931 A2	20051130	EP20040737269	20040209
EP1599931 A4	20101215	EP20040737269	20040209
JP2007525686 T2	20070906	JP20060503423T	20040209
JP4642013 B2	20110302	JP20060503423T	20040209
KR101067802 B1	20110927	KR20057014575	20050808
KR20050097543 A	20051007	KR20057014575	20040209
US2004160660 AA	20040819	US20040774930	20040209
US2004165251 AA	20040826	US20030366276	20030213
US6804040 BB	20041012	US20030366276	20030213
US6897997 BB	20050524	US20040774930	20040209
WO04077649 A2	20040910	WO2004US03712	20040209
WO04077649 A3	20060720	WO2004US03712	20040209

Priority:

US20030366276 20030213 US20040774930 20040209 WO2004US03712 20040209

Probable Assignee: RESEARCH FRONTIERS INC

Assignee(s): (std): HARARY JOSEPH M ; MALVINO ALBERT P ; RESEARCH FRONTIERS INC ; SAXE ROBERT L

Inventor(s): (std): ALBERT P MALVINO ; HARARY JOSEPH M ; JOSEPH M HARARY ; MALVINO ALBERT P ; ROBERT L SAXE ; SAXE ROBERT L

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSTROLENK FABER GERB AND SOFFEN 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

Title: ELECTRONIC WINDOW SHADING SYSTEM FOR HOUSES, TRANSPORT VEHICLES AND THE LIKE

Abstract: There is disclosed an automatic electronic window shading (tinting) system for houses and transport vehicles such as automobiles, RV's, trains, boats and the like, to provide shading for people to protect them from exposure to harmful direct sunlight, by providing the windows of said houses and transport vehicles with display elements and light (photocell/photovoltaic) sensors. The system comprises liquid crystal, electrochromic, suspended particle device (SPD), or NanoChromics display (NCD) element attached to a part of a transparent body (such as the windows) and a liquid crystal, electrochromic, suspended particle device (SPD), or NanoChromics display (NCD) controlling semiconductor element controlling the operation of the display element.

Classifications:

International (IPC 8-9): G02B27/00 G02B5/20 G02F1/01

G02F1/15 (Advanced/Invention);

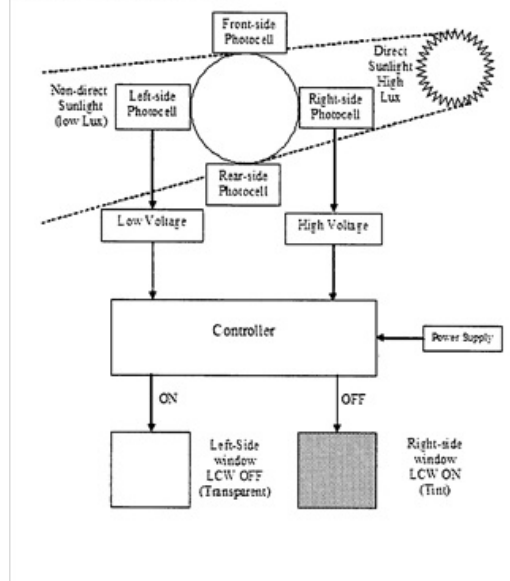
G02B27/00 G02B5/20 G02F1/01 (Core/Invention)

CPC: B32B17/10036 B32B17/10513 E06B9/24 B60J3/04 E06B2009/2464 E06B2009/6827 G02F1/13318 G02F1/163 Y02B80/50 Y02A30/257

European: B60J3/04 E06B9/24 P06B9/24F P06B9/68C2B S02F1/133D2 S02F1/163 Y02B80/50

US: 359/265 359/277 359/277P 359/361 359/361S 359/601 359/601S

PatBase - US2009027759_HH



Family:

Publication number	Publication date	Application number	Application date
US2009027759 AA	20090129	US20070781932	20070723
US8102586 BB	20120124	US20070781932	20070723

Priority:

US20070781932 20070723

Probable Assignee: KUWAIT UNIV

Assignee(s): (std): ALBAHRI TAREQ ABDULJALIL ; KUWAIT UNIV ; KUWAIT UNIVERSITY ; UNIV KUWAIT

Assignee(s): UNIVERSITY OF KUWAIT ; OF KUWAIT UNIV

Inventor(s): (std): ALBAHRI TAREQ ABDULJALIL

Agent(s): FURR LAW FIRM; RICHARD C

Title: LAMINATED GLAZING

Abstract: A laminated glazing comprising an SPD ply comprising a suspended particle device having a low light transmission off-state and a high light transmission on-state, at least one interlayer ply comprising an interlayer material, and at least one glazing ply is disclosed. The interlayer material has been dried to a predetermined moisture content to increase the time over which the suspended particle device is switchable between the low light transmission off-state and the high light transmission on-state. Use of a dried interlayer to increase the time over which an SPD film is switchable between a low light transmission off-state and a high light transmission on-state is also disclosed. Additionally a process for producing the aforementioned laminated glazing is disclosed. It has been found that the moisture content of the interlayer material is a factor in determining the switching characteristics over time of an SPD film incorporated into a laminated glazing.

Classifications:**International (IPC 8-9):** B32B17/10 C03C27/12 G02F1/01

G02F1/015 (Advanced/Invention);

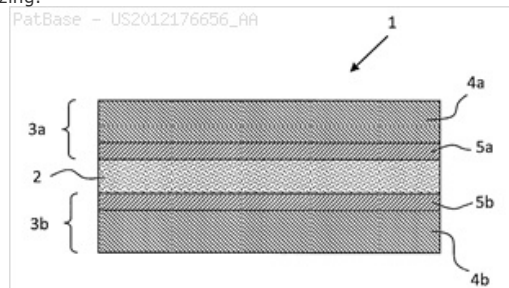
G02F1/17 (Advanced/Non-invention)

CPC: B32B17/10036 B32B17/10 B32B17/10174 B32B17/10532

B32B17/10761 B32B17/1077 G02F1/172 B32B2367/00

European: B32B17/10 B32B17/10C4 B32B17/10E10 B32B17/10E40D68

B32B17/10G28 B32B17/10G30 S02F1/17A

US: 1/1 156/106 156/106S 359/240 359/240P**Family:**

Publication number	Publication date	Application number	Application date
CN102630200 A	20120808	CN201080048126	20100917
CN102630200 B	20150401	CN201080048126	20100917
DE602010014259 D1	20140424	DE201060014259T	20100917
EP2477810 A1	20120725	EP20100757821	20100917
EP2477810 B1	20140312	EP20100757821	20100917
GB200916379 A0	20091028	GB20090016379	20090918
JP2013505188 T2	20130214	JP20120529344T	20100917
JP5636429 B2	20141203	JP20120529344T	20100917
US2012176656 AA	20120712	US20100496691	20100917
US9193135 BB	20151124	US20100496691	20100917
WO11033313 A1	20110324	WO2010GB51566	20100917

Priority:

GB20090016379 20090918 EP20100757821 20100917 WO2010GB51566 20100917

Probable Assignee: PILKINGTON GROUP LTD**Assignee(s):** (std): BOOTE JOSEPH JEREMY ; BUTCHER REBECCA ; PILKINGTON GROUP LTD**Assignee(s):** PILKINGTON GROUP LTD ST HELENS ; PILKINGTON GROUP LIMITED**Inventor(s):** (std): BOOTE JOSEPH JEREMY ; BUTCHER REBECCA ; JEREMY BOOTE JOSEPH ; REBECCA BUTCHER**Agent(s):** STANLEY ANDREW THOMAS; BUCHANAN INGERSOLL AND ROONEY PC

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

Title: VEHICLE WINDOW WITH SHADE

Abstract: A window assembly for a vehicle includes outer and inner window panels and a spacer element disposed therebetween to establish an interpane cavity between the inner and outer window panels. At least one of (a) the outer window panel has a larger cross dimension relative to the inner window panel to provide overhang regions, and (b) the inner window panel has a different contour or curvature than that of the outer window panel so that the interpane cavity varies in gap distance across the window assembly. A roller shade is disposed in the cavity and is electrically deployable to coil and uncoil between a coiled light transmitting condition, where the roller shade functions to substantially allow light transmission through the window assembly, and an at least partially uncoiled light attenuating condition, where the roller shade functions to at least partially attenuate light transmission through the window assembly.

Classifications:

International (IPC 8-9): B60J1/00 B60J1/20 B60J3/00 B60J3/02 B60J3/06 B60J7/00 B60J7/043 B60J7/06 B60R13/07

B62D25/06 (Advanced/Invention);

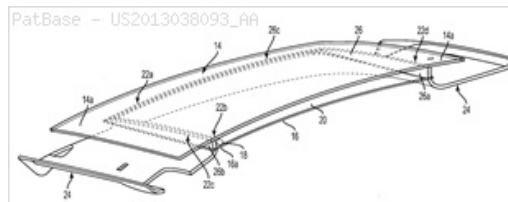
B60J3/02 B62D25/06 (Advanced/Non-invention)

CPC: B60J7/0015 B62D25/06 B60J1/2013 B60J1/001 B60J7/043

G02B27/01 B60J3/0286 B60J1/2019

European: B60J7/00B1 B62D25/06

US: 160/370.22 160/89 296/152 296/215 296/219 296/97.5 296/97.8

**Family:**

Publication number	Publication date	Application number	Application date
■ CN102947133 A	20130227	CN201180030437	20110422
■ CN103781645 A	20140507	CN201280040739	20120622
■ CN104661843 A	20150527	CN201380047945	20130626
■ EP2560840 A1	20130227	EP20110772744	20110422
■ EP2560840 A4	20171129	EP20110772744	20110422
■ EP2723590 A1	20140430	EP20120802328	20120622
■ EP2723590 A4	20150715	EP20120802328	20120622
■ EP2872345 A1	20150520	EP20130816223	20130626
■ EP2872345 A4	20160511	EP20130816223	20130626
■ KR20130091661 A	20130819	KR20127030586	20110422
■ KR20140041782 A	20140404	KR20147001646	20120622
■ KR20150038039 A	20150408	KR20157003557	20130626
■ US2013038093 AA	20130214	US20110642908	20110422
■ US2014097636 AA	20140410	US20120125403	20120622
■ US2015224856 AA	20150813	US20130414148	20130626
■ US8827347 BB	20140909	US20110642908	20110422
■ US9539883 BB	20170110	US20130414148	20130626
■ WO11133830 A1	20111027	WO2011US33515	20110422
■ WO12177995 A1	20121227	WO2012US43729	20120622
■ WO14011395 A1	20140116	WO2013US47873	20130626

Priority:

US20100327181P 20100423	US20110447994P 20110301	US20110642908 20110422
WO2011US33515 20110422	US20110500899P 20110624	US20110554016P 20111101
US20120593963P 20120202	US20120614881P 20120323	US20120643573P 20120507
US20120646556P 20120514	US20120653100P 20120530	US20120658126P 20120611
US20120125403 20120622	WO2012US43729 20120622	US20120671399P 20120713
US20120676404P 20120727	US20120697037P 20120905	US20120642908 20121023
US20120725216P 20121112	US20130760368P 20130204	US20130772017P 20130304
US20130805319P 20130326	US20130823645P 20130515	WO2013US47873 20130626
US20130414148 20130626	US20130125403 20131211	

Probable Assignee: MAGNA MIRRORS OF AMERICA INC**Assignee(s):** (std): MAGNA MIRRORS OF AMERICA INC ; SNIDER DARIN J ; WARREN NORMAN B**Inventor(s):** (std): SNIDER DARIN J ; WARREN NORMAN B**Agent(s):** Coyle Philip Aidan; COYLE PHILIP AIDAN; GARDNER LINN BURKHART AND FLORY LLP; FLORY TIMOTHY A; GARDNER LINN ET AL; GARDNER LINN BURKHART AND FLORY LLP AND ITS INDIVIDUAL ATTORNEYS NAMELY TIMOTHY A FLORY

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

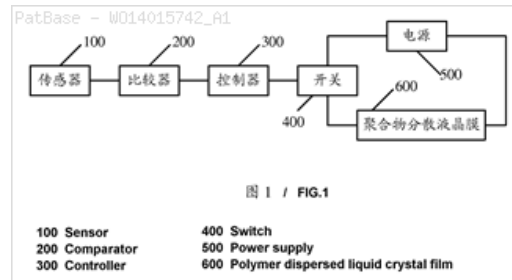
Title: VEHICLE SAFETY REMINDING DEVICE AND VEHICLE SAFETY REMINDING METHOD

Abstract: Disclosed are a vehicle safety reminding device and a vehicle safety reminding method. The device is provided on a vehicle and comprises: a sensor (100) for acquiring current state information of the vehicle; a comparator (200) connected to the sensor (100) and for comparing to determine whether or not the current state information of the vehicle meets a corresponding safety condition; a polymer dispersed liquid crystal film (600) provided on part of a windshield in front of the position of a driver of the vehicle; a power supply (500) connected to the polymer dispersed liquid crystal film (600); a switch (400) connected to the power supply (500) and the polymer dispersed liquid crystal film (600) such that the power supply (500) is switched between a state in which it supplies power to the polymer dispersed liquid crystal film (600) and another state in which it stops supplying power to the polymer dispersed liquid crystal film (600); a controller (300) connected to the switch (400) and the comparator (200), wherein when the safety condition is met, the controller (300) controls the switch (400) such that the power supply (500) supplies power to the polymer dispersed liquid crystal film (600), and otherwise, the controller (300) controls the switch (400) such that the power supply (500) stops supplying power to the polymer dispersed liquid crystal film (600). When encountering a problem in terms of vehicle safety, the device is able to timely remind a user to take measures to ensure safety during driving of the vehicle.

Classifications:

International (IPC 8-9): B60C23/02 B60J1/00 B60J1/02 B60J1/20 B60K37/06 B60Q5/00 B60R16/02 B60W50/14 G02F1/13 G02F1/1333 G02F1/1334 (Advanced/Invention)

CPC: G02F1/1334 B60J3/04 B60K37/06 B60J1/20 B60R16/03 B60Y2400/30 B60Y2400/3019 B60Y2400/303 B60W50/14 B60W2050/146 B60W2520/10 B60W2530/20 B60W2050/143 B60W2560/00



Family:

Publication number	Publication date	Application number	Application date
■ CN102785538 A	20121121	CN201210262157	20120726
■ EP2878469 A1	20150603	EP20130823601	20130705
■ EP2878469 A4	20170419	EP20130823601	20130705
■ JP2015516919 T2	20150618	JP20150509295T	20130705
■ KR20140140564 A	20141209	KR20147027149	20130705
■ WO14015742 A1	20140130	WO2013CN078874	20130705

Priority:

CN201210262157 20120726 WO2013CN078874 20130705

Probable Assignee: FRANCE SAINT GOBAIN GLASS S A

Assignee(s): (std): FRANCE SAINT GOBAIN GLASS S A ; LI CHANGLE ; SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN SA

Inventor(s): (std): LI CHANGLE ; CHANGLE LI

Agent(s): RIBEAUDEAU MARION CHRISTINE; UNITALEN ATTORNEYS AT LAW

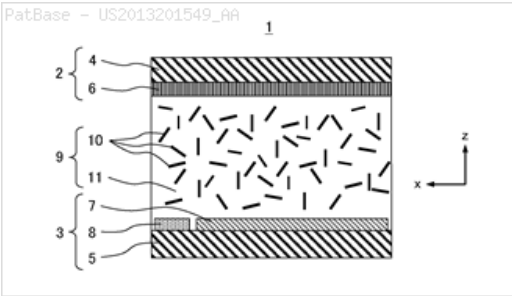
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Title: SUSPENDED PARTICLE DEVICE, LIGHT CONTROL DEVICE USING THE SAME, AND DRIVING METHOD

Abstract: A suspended particle device includes a first substrate; a second substrate; a first electrode that can be controlled for a potential; a second electrode that can be controlled for a potential different from that of the first electrode; an electrified body; and a liquid suspension containing charged light control particles and a dispersion medium, in which the first electrode, the second electrode and the electrified body are disposed between the first substrate and the second substrate, and the liquid suspension is sealed between the first substrate and the second substrate, and the light control particles are capable of being accumulated to a periphery of the electrified body. Thus, it is possible to ensure uniformity of transmission light as well as to hold a light transmittance state in a state where the power supply is stopped.

Classifications:

International (IPC 8-9): G02B26/00 G02B26/02 G02F1/167 G02F1/17 G09G3/34 (Advanced/Invention); G02F1/00 G02F1/1333 H01G7/02 (Advanced/Non-invention)
CPC: G02F1/167 G02F1/172 G02B26/026 G02F1/0018 G02F1/0027 G02F1/133348 G02F2203/24 G09G3/3406 G09G3/3433 G09G3/344 G09G3/3453 H01G7/02 G02F2001/1676 G02F2202/07
US: 204/450 204/490 359/228 359/245 359/296



Family:

Publication number	Publication date	Application number	Application date
DE602013003616 D1	20151210	DE201360003616T	20130207
EP2626740 A1	20130814	EP20130154437	20130207
EP2626740 B1	20151028	EP20130154437	20130207
JP2013160967 A2	20130819	JP20120023698	20120207
JP5516616 B2	20140611	JP20120023698	20120207
US2013201549 AA	20130808	US20130761670	20130207
US8995046 BB	20150331	US20130761670	20130207

Priority:

JP20120023698 20120207 EP20130154437 20130207

Probable Assignee: HITACHI CHEMICAL CO LTD

Assignee(s): (std): HITACHI CHEMICAL CO LTD

Inventor(s): (std): AKABOSHI HARUO ; AKAHOSHI HARUO ; KANEKO HIROKI ; KANEKO HIRONORI ; MORI SHUNSUKE

Agent(s): BEETZ AND PARTNER MBB PATENTANWALTE; BEETZ AND PARTNER MBB PATENT U RECHTSANWALTE; BEETZ AND PARTNER MBB; VOLPE AND KOENIG PC

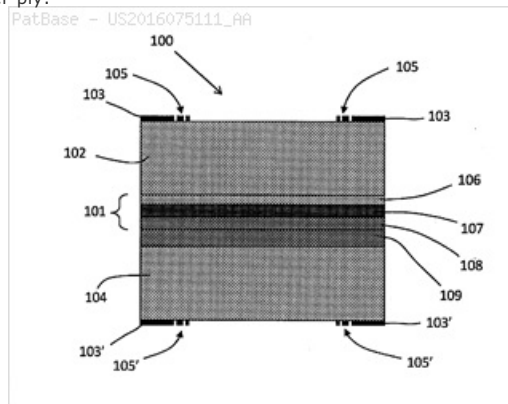
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: LAMINATED GLAZING

Abstract: A laminated glazing is described comprising a first pane of glazing material having a first major surface and an opposing second major surface, there being an obscuration band on the second major surface extending around a portion of the periphery of the first pane such that the second major surface is not smooth. A first adhesive layer having a thickness of between 6 micro m and 100 micro m contacts a portion of the second major surface of the first pane of glazing material and a portion of the obscuration band. The laminated glazing also has a carrier ply carrying an infra red reflecting coating wherein the first adhesive layer is between the first pane of glazing material and the carrier ply.

Classifications:

International (IPC 8-9): B32B15/08 B32B17/10 B32B27/30 B32B3/10 B32B37/12 B32B7/12 B60J1/00 B60J1/02 B60J3/02 C03C27/12 (Advanced/Invention)
CPC: B32B7/12 B32B17/1077 B32B37/12 B32B2605/08 B32B2605/006 B32B2307/202 B32B17/10174 B32B17/10036 B32B17/10348 B32B17/10761 B32B17/10532 B32B17/10 B32B2367/00 B32B17/10266
US: 156/109 428/172 428/192

**Family:**

Publication number	Publication date	Application number	Application date
■ CN105263706 A	20160120	CN201480031402	20140425
■ EP2988930 A1	20160302	EP20140719844	20140425
■ GB201307495 A0	20130612	GB20130007495	20130425
■ JP2016525951 T2	20160901	JP20160509552T	20140425
■ US2016075111 AA	20160317	US20140786863	20140425
■ US9895864 BB	20180220	US20140786863	20140425
■ WO14174308 A1	20141030	WO2014GB51296	20140425

Priority:

GB20130007495 20130425 WO2014GB51296 20140425

Probable Assignee: PILKINGTON GROUP LTD**Assignee(s):** (std): PILKINGTON GROUP LTD**Inventor(s):** (std): DIXON JONATHAN BARCLAY**Agent(s):** STANLEY ANDREW THOMAS; BUCHANAN INGERSOLL AND ROONEY PC; 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

Title: LAMINATED GLASS

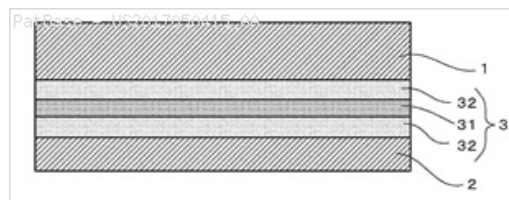
Abstract: A laminated glass according to the present invention includes an outer glass sheet, an inner glass sheet that is arranged opposite to the outer glass sheet and has a smaller thickness than that of the outer glass sheet, and an interlayer sandwiched between the outer glass sheet and the inner glass sheet. A transmittance with respect to light having a wavelength of 850 to 950 nm is 30 to 80 percent. The outer glass sheet has a thickness of 1.8 to 2.3 mm. The inner glass sheet has a thickness of 0.6 to 2.0 mm. The interlayer includes a plurality of layers including at least a core layer. The core layer has a Young's modulus of 1 to 20 MPa at a frequency of 100 Hz and a temperature of 20 degrees centigrade, the Young's modulus being lower than the Young's modulus of the other layer.

Classifications:

International (IPC 8-9): B32B17/06 B32B17/10 B32B7/02 B60J1/00 B60J1/02 B60S1/58 C03C27/12 E06B3/66 (Advanced/Invention)

CPC: B60J1/008 C03C27/10 B32B17/06 B32B2307/412 B32B2309/02 B60J1/001 B60J1/02 B32B17/10036 B32B17/10633 B32B17/10761 B32B2307/56 B32B2250/03 B32B2307/102

US: 428/215



Family:

Publication number	Publication date	Application number	Application date
■ CN105980325 A	20160928	CN201580008414	20150213
■ CN105980325 B	20180525	CN201580008414	20150213
■ EP3106443 A1	20161221	EP20150749265	20150213
■ EP3106443 A4	20170830	EP20150749265	20150213
■ JP2015151308 A2	20150824	JP20140027049	20140214
■ JP2015151309 A2	20150824	JP20140027050	20140214
■ JP2015160779 A2	20150907	JP20140037626	20140227
■ JP2015168584 A2	20150928	JP20140042214	20140304
■ JP2015168585 A2	20150928	JP20140042215	20140304
■ JP2015168586 A2	20150928	JP20140042217	20140304
■ JP2015168592 A2	20150928	JP20140043802	20140306
■ JP2015168598 A2	20150928	JP20140044445	20140306
■ JP2015168599 A2	20150928	JP20140044705	20140307
■ JP6178738 B2	20170809	JP20140037626	20140227
■ JP6193777 B2	20170906	JP20140027049	20140214
■ JP6267006 B2	20180124	JP20140042214	20140304
■ JP6267007 B2	20180124	JP20140042215	20140304
■ JP6267008 B2	20180124	JP20140042217	20140304
■ JP6295096 B2	20180314	JP20140027050	20140214
■ JP6295104 B2	20180314	JP20140043802	20140306
■ US2017050415 AA	20170223	US20150118735	20150213
■ WO15122507 A1	20150820	WO2015JP54044	20150213

Priority:

JP20140027049	20140214	JP20140027050	20140214	JP20140037626	20140227
JP20140042214	20140304	JP20140042215	20140304	JP20140042217	20140304
JP20140043802	20140306	JP20140044445	20140306	JP20140044705	20140307
WO2015JP54044	20150213				

Probable Assignee: NIPPON SHEET GLASS CO LTD

Assignee(s): (std): NIPPON SHEET GLASS CO LTD

Assignee(s): NIPPON SHEET GLASS CO

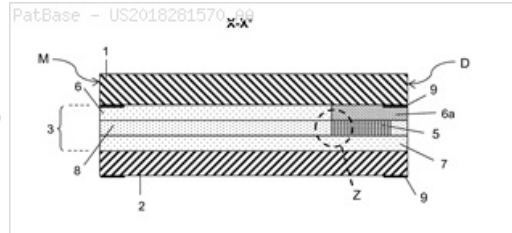
Inventor(s): (std): OGAWA HISASHI ; OGAWA NAGAFUMI ; KANKI SATOSHI ; ASAOKA HISASHI ; ASAI TAKAHIRO ; KAMIYOSHI SATORU

Agent(s): WEBSTER JEREMY MARK; TACHIBANA KENJI; TANAKA JUNYA; YAMADA IICHIRO 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 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

Title: WINDSHIELD WITH ELECTRICALLY CONTROLLABLE SUN VISOR

Abstract: A windshield with an electrically controllable sun visor is described. The windshield includes an outer pane and an inner pane that are bonded to one another via an intermediate layer. According to one aspect, a functional element with electrically controllable optical properties is incorporated into the intermediate layer and above a central field of vision. The functional element is connected to the outer pane via a region of a first thermoplastic layer, and is connected to the inner pane via a region of a second thermoplastic layer. According to another aspect, the region of the first thermoplastic layer and/or the region of the second thermoplastic layer is tinted or colored.

Classifications:**International (IPC 8-9):** B32B17/10 B60J3/04 (Advanced/Invention)**International (IPC 1-7):** B60J3/04**CPC:** B32B17/10348 B32B17/10761 B32B17/10871 B32B17/10302
B32B17/1088 B32B2307/412 B32B2605/006 B60J3/04 B32B17/10036
B32B17/10339 B32B17/10504 B32B17/1077 B32B17/10788 B32B2250/40**Family:**

Publication number	Publication date	Application number	Application date
BR112018006898 A2	20181016	BR20181106898	20170222
CA3009447 AA	20180621	CA20173009447	20170222
CN107614302 A	20180119	CN201780000610	20170222
IN201817015981 A	20181012	IN201817015981	20180427
KR20180059531 A	20180604	KR20187012073	20170222
US2018281570 AA	20181004	US20170772036	20170222
WO17157626 A1	20170921	WO2017EP54001	20170222

Priority:

EP20160160838 20160317 WO2017EP54001 20170222

Probable Assignee: SAINT GOBAIN GLASS FRANCE**Assignee(s):** (std): SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN SA**Assignee(s):** LABROT MICHAEL ; LINNHOFER DIETER**Inventor(s):** (std): DIETER LINNHOFER ; LABROT MICHAEL ; LINNHOFER DIETER ; MICHAEL LABROT ; LINNHOFER DIETER**Inventor(s):** LINNHOFER DIETER**Agent(s):** GOUDREAU GAGE DUBUC ; LAVERY DE BILLY LLP ; FEIST FLORIAN ARNO**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