

1) Family number: 63295009 (US2016243796A)

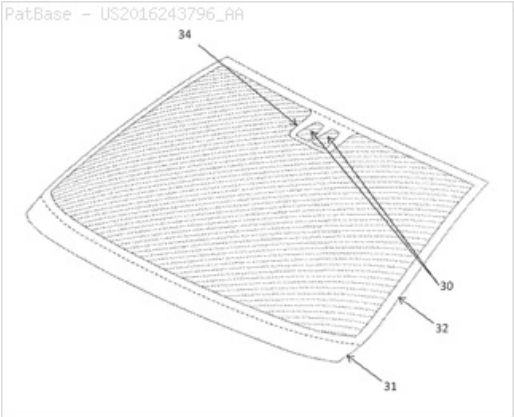
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Title: OBSCURATION HAVING SUPERIOR STRENGTH AND OPTICAL QUALITY FOR A LAMINATED AUTOMOTIVE WINDSHIELD

Abstract: Laminated automotive glazing including plastic layers and glass having an obscuration area produced by printing on the plastic layers of the laminate rather than printing and firing a black enamel frit onto the glass. This results in an obscuration having superior optical quality, higher strength and a lower probability of breakage as compared to a black enamel frit obscuration.

Classifications:

International (IPC 8-9): B32B17/10 B32B7/12 B41J11/00 B41J2/01 B41M1/30 B41M5/00 B44F1/06 B60J1/02 B60J3/00 E06B3/663 (Advanced/Invention)
CPC: B32B17/10348 B32B17/1077 B60J1/02 B32B2250/03 B32B2255/10 B32B2307/41 B32B37/182 B32B38/145 B32B17/10036 B32B17/10779 E06B3/66304 B32B2605/08 B32B2307/42 B32B17/10284 B32B17/10568 B32B17/10651 B32B2605/006 B32B17/10266 B32B17/10275 B32B2255/26 B32B17/10761 B32B17/10788 B32B2307/412 B32B3/263 B32B5/145 B32B7/12 B32B17/00 B32B27/06 B32B27/08 B32B27/30 B32B27/306 B32B27/36 B32B27/40 B32B2250/05 B32B2250/40 B32B2307/40 B32B2307/4023 B32B2307/406 B32B2307/418 B32B2307/50 B32B2307/58 B32B2307/71 B32B2307/732 B32B2307/75 US: 428/203



Family:

Publication number	Publication date	Application number	Application date
CO20170008445 A1	20180131	CO20170008445	20170818
US2016243796 AA	20160825	US20150625952	20150219
US2017232713 AA	20170817	US20160393584	20161229
US2017297310 AA	20171019	US20170498852	20170427
US9623634 BB	20170418	US20150625952	20150219
WO18122770 A1	20180705	WO2017IB58469	20171228
WO18122770 A9	20181108	WO2017IB58469	20171228

Priority:

US20150625952 20150219 US20160393584 20161229 US20170498852 20170427

Probable Assignee: AGP AMERICA SA

Assignee(s): (std): AGP AMERICA S A ; AGP AMERICA SA

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Inventor(s): (std): GORDON PHILIP DENTON ; GRANADOS CARO LAURA ; MANNHEIM ASTETE ARTURO ; MANNINO VINCENZO ; MENDOZA CARRANZA ELENA K ; VOELTZEL CHARLES S ; VOETZEL CHARLES S ; VOELTZEL CHARLES STEPHEN ; MENDOZA CARRANZA ELENA ; MANNHEIM ASTETE MARIO ARTURO ; DENTON GORDON PHILIP

Inventor(s): PHILIP DENTON GORDON ; VINCENZO MANNINO ; MARIO ARTURO MANNHEIM ASTETE ; LAURA GRANADOS CARO ; CHARLES STEPHEN VOELTZEL ; ELENA K MENDOZA CARRANZA

Agent(s): CARLOS REINALDO OLARTE GARCIA; JACOBSON HOLMAN 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 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 JO 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

2) Family number: 54254833 (US2016075111A)

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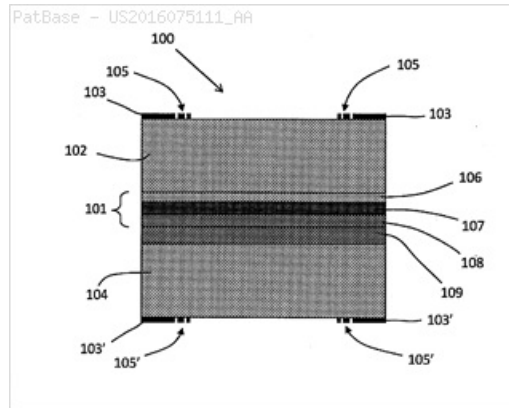
Title: LAMINATED GLAZING

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
CN105263706 B	20190405	CN201480031402	20140425
EP2988930 A1	20160302	EP20140719844	20140425
GB201307495 A0	20130612	GB20130007495	20130425
JP2016525951 T2	20160901	JP20160509552T	20140425
JP6498662 B2	20190410	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

3) Family number: 42460057 (US2008274321A)

PatBase

Title: PLASTIC GLAZING PANEL HAVING UV CURABLE PRINTED PATTERN AND PROCESS FOR MAKING THE SAME

Abstract: An economical method of manufacturing a plastic glazing panel having a decorative marking and/or opaque border printed from a UV curable ink is presented. This economical method includes the steps of forming a plastic panel; printing an opaque pattern from an ink, the pattern having an A-side and a B-side with the B-side being in contact with the plastic panel; curing the ink in the shape of the printed pattern using UV radiation directed at the ink from both the A-side and B-side; applying a weatherable layer on the B-side of the ink and on the plastic panel; curing the weatherable layer; and depositing an abrasion resistant layer onto the weatherable layer.

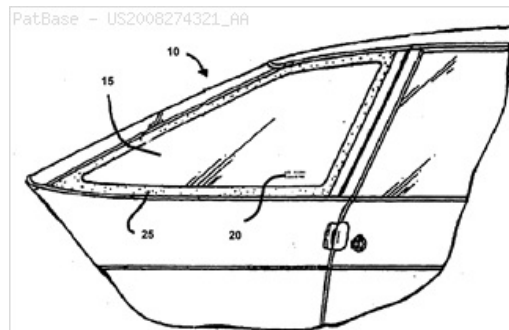
Classifications:

International (IPC 8-9): B29C45/14 B32B27/00 B32B27/16 B32B27/30
B32B9/00 B41M1/30 B41M5/36 B41M7/00 B60J1/00 C09D11/00
C09D11/02 C09D11/10 C09D11/101 C09D11/30 (Advanced/Invention);
B29C45/14 B32B27/00 B32B27/16 B32B27/30 B32B9/00 B41M1/26
B41M5/36 B41M7/00 B60J1/00 C09D11/00 C09D11/02
C09D11/10 (Core/Invention)

CPC: Y10T428/24777 Y10T428/24802 Y10T428/24868 Y10T428/24926
B29C45/0053 B29C2045/0079 B29K2069/00 B29L2031/30 B29L2031/778
C09D11/101 C09D11/30

European: B29C45/00J C09D11/101 C09D11/30 L29C45/00J6
L29K69/00 L29L31/30 L29L31/778

US: 264/447 264/447S 296/146.1 428/192 428/195.1 428/203 428/210
428/38 428/38P



Family:

Publication number	Publication date	Application number	Application date
CN101678580 A	20100324	CN200880018578	20080501
CN101678580 B	20140326	CN200880018578	20080501
DE602008022114 D1	20130411	DE200860022114T	20080501
EP2144739 A1	20100120	EP20080747291	20080501
EP2144739 B1	20130213	EP20080747291	20080501
JP2010527305 T2	20100812	JP20100506629T	20080501
JP5089770 B2	20121205	JP20100506629T	20080501

KR101464017 B1	20141208	KR20097024667	20080501
KR20100017392 A	20100216	KR20097024667	20080501
US2008274321 AA	20081106	US20080113331	20080501
US8361601 BB	20130129	US20080113331	20080501
WO08137505 A1	20081113	WO2008US62155	20080501

Priority:

US20070915220P 20070501 EP20080747291 20080501 US20080113331 20080501
WO2008US62155 20080501

Probable Assignee: EXATEC LLC

Assignee(s): (std): EXATEC L L C ; EXATEC LLC ; FOSTER KEN ; GRANDHEE SUNITHA K ; STELLMACH KOREY ; WEISS KEITH D ; LEFAUX CHRISTOPHE ; MENON NANDAKUMAR

Assignee(s): EXATEC LLC WIXOM

Inventor(s): (std): GRANDHEE SUNITHA K ; STELLMACH KOREY ; WEISS KEITH D ; LEFAUX CHRISTOPHE ; MENON NANDAKUMAR ; FOSTER KEN ; KOREY STELLMACH ; CHRISTOPHE LEFAUX ; KEN FOSTER ; NANDAKUMAR MENON

Inventor(s): FOSTER KEN BRIGHTON ; MENON NANDAKUMAR AURORA ; GRANDHEE SUNITHA K NOVI ; STELLMACH KOREY AURORA ; LEFAUX CHRISTOPHE ANN ARBOR ; WEISS KEITH D FENTON

Agent(s): SOLF ALEXANDER; Solf Alexander; IKEDA YUKIHIRO; ASAMURA KIYOSHI; ASAMURA PATENT OFFICE PC; YKI PATENT ATTORNEYS; ASAMURA HAJIME; YKI INTELLECTUAL PROPERTY ATTORNEYS; EXATEC, C/O BRINKS HOFER GILSON AND LIONE; EXATEC C O BRINKS HOFER GILSON AND LIONE; CANTOR COLBURN LLP; WEISS KEITH D

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

4) Family number: 34438209 (US2007098964A)

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Title: INTERLAYERS COMPRISING AN EMBOSSED POLYMER FILM

Abstract: The present invention provides interlayers that comprise a metallized, embossed polymer film onto which an image has been formed with ultraviolet curable ink. The ultraviolet curable ink, upon application to the embossed surface of the polymer film, adheres evenly to the surface, without undue thickening or thinning in the low and high areas of the embossed surface. Interlayers comprising such films can be incorporated, for example, into a two glass pane multiple layer glazing. Such glazings can provide, for example, privacy for the enclosed space as well as infrared radiation control.

Classifications:

International (IPC 8-9): B32B17/10 B41M5/00

C03C27/12 (Advanced/Invention);

C09D11/10 (Advanced/Non-invention);

B32B17/06 B41M5/00 C03C27/12 (Core/Invention);

C09D11/10 (Core/Non-invention)

CPC: B32B17/10761 B32B17/10 B32B17/10018 B32B17/10036

B32B17/10174 B32B17/10247 B32B17/10688 B32B17/1077

Y10T428/24802 B32B17/10284

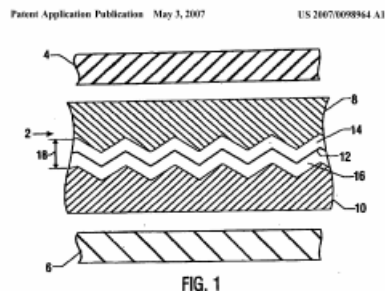
European: B32B17/10 B32B17/10C2 B32B17/10C4 B32B17/10E10

B32B17/10E12 B32B17/10E24B B32B17/10G12 B32B17/10G28

B32B17/10G30

US: 428/195.1 428/195.100P

PatBase - US2007098964_AA



Family:

Publication number	Publication date	Application number	Application date
US2007098964 AA	20070503	US20050264511	20051101
WO07076169 A2	20070705	WO2006US60144	20061022
WO07076169 A3	20071122	WO2006US60144	20061022

Priority:

US20050264511 20051101

Probable Assignee: SOLUTIA INC

Assignee(s): (std): SOLUTIA INC ; YACOVONE VINCENT

Assignee(s): FLEXSYS AMERICA LP ; CITIBANK NA ; CPFILMS INC ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT A ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT AS

Inventor(s): (std): YACOVONE VINCENT ; YACOVONE VINCENT J

Inventor(s): YACOVONE VINCENT JAMES

Agent(s): BRENC LAW, ANDREW BRENC

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 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

5) Family number: 42245233 (US2004187732A)

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Title: NON-AQUEOUS INKJET INK SET

Abstract: This invention pertains to an ink set for inkjet printing, in particular to a non-aqueous ink set comprising one or more inks based on certain pigment colorants. The invention also pertains to a method of inkjet printing with this ink set.

Classifications:

International (ipc 8-9): B32B17/10 B32B27/06 B32B27/30 B32B3/00 B32B3/22 B32B37/00 B32B37/02 B32B37/14 B32B37/16 B32B38/14 B41J2/01 B41M1/30 B41M5/00 B41M5/50 B41M5/52 B41M7/00 B44C3/02 B44C5/04 B44F1/06 C03C27/04 C03C27/12 C09D11/00 C09D11/02 G01D11/00 (Advanced/Invention); B44C3/08 B44C3/12 C03C27/10 C03C27/12 (Advanced/Non-invention); B32B17/06 B32B27/06 B32B27/30 B32B3/00 B32B37/14 B32B38/14 B41J2/01 B41M5/00 B41M5/50 B41M7/00 C03C27/12 C09D11/00 (Core/Invention)

International (ipc 1-7): B32B17/10 B32B27/06 B32B27/30 B32B3/00 B32B31/00 B41J2/01 B41J2/17 B41M5/00 C03C27/12 C09D11/00 C09D11/02

CPC: B32B17/10825 B41M5/0017 B41M7/0018 C09D11/30 C09D11/36 C09D11/54 B32B17/10577 B41M5/0047 Y10T156/1002 Y10T156/1039 Y10T428/24868 Y10T428/24884 B32B17/10247 B41M5/0023 B41M5/0064 B41M7/0027 C09D11/322 C09D11/40 Y10T428/24851 Y10T156/1089 Y10T428/249921 B32B38/145 B32B2398/20 B32B2451/00 B32B17/10036 B32B17/10275 B32B17/10761 B32B17/1077 B32B17/10788 B32B27/06 B44F1/066

European: B32B17/10C4 B32B17/10E12 B32B17/10E12B4 B32B17/10G28 B32B17/10G2D B32B17/10G30 B32B17/10G36 B32B17/10L10B B32B27/06 B41M5/00F B41M5/00S2 B41M5/00S8 B41M7/00C B44F1/06D C09D11/30 C09D11/322 C09D11/36 C09D11/40 C09D11/54

US: 101/491 106/31.27 106/31.6 106/31.600P 156/100 156/100S 156/102 156/196 156/219 156/277 156/277S 156/297 156/99 347/100 347/100S 347/95 347/95P 428/201 428/201P 428/203 428/203S 428/205 428/205P 428/221 428/221S 428/32.18 428/32.180P

Family:

Publication number	Publication date	Application number	Application date
AT355342 E	20060315	AT20040756104T	20040623
AT366290 E	20070715	AT20040758351T	20040325
AU2003259970 AA	20040311	AU20030259970	20030820
AU2003259970 BB	20090326	AU20030259970	20030820
CA2495946 AA	20050218	CA20032495946	20030820
CN100457444 C	20090204	CN20038019863	20030820
CN1675060 A	20050928	CN20038019863	20030820
DE602004005040 D1	20070412	DE200460005040T	20040623
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DE60317083 T2	20080807	DE20036017083T	20030820
EP1539487 A1	20050615	EP20030793220	20030820
EP1539487 B1	20071024	EP20030793220	20030820
EP1611214 A2	20060104	EP20040758351	20040325
EP1611214 B1	20070704	EP20040758351	20040325
EP1636320 A1	20060322	EP20040756104	20040623
EP1636320 B1	20070228	EP20040756104	20040623
JP2005536375 T2	20051202	JP20040529779T	20030820
JP2006523263 T2	20061012	JP20060509298T	20040325
JP2007521368 T2	20070802	JP20060517660T	20040623
JP4452618 B2	20100421	JP20040529779T	20030820
MXPA05001871 A1	20050603	MX2005PA01871	20030820
US2004187732 AA	20040930	US20030644323	20030820
US2005030360 AA	20050210	US20040801466	20040316
US2005048229 AA	20050303	US20040878582	20040628
US2005271865 AA	20051208	US20030521500	20030820
US2007071955 A9	20070329	US20030521500	20030820
US2007087137 A9	20070419	US20040878582	20040628
US2007125490 AA	20070607	US20060598477	20061113
US2011165390 AA	20110707	US20110051340	20110318
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US7122077 BB	20061017	US20040801466	20040316
US8002938 BB	20110823	US20060598477	20061113
US9011628 BB	20150421	US20110051340	20110318
WO04018197 A1	20040304	WO2003US26193	20030820

WO04087824 A2	20041014	WO2004US09184	20040325
WO04087824 A3	20041125	WO2004US09184	20040325
WO05003244 A1	20050113	WO2004US20418	20040623

Priority:

US20020404700P 20020820	US20030458483P 20030328	US20030483515P 20030626
US20030483516P 20030626	US20030521500 20030820	US20030644323 20030820
WO2003US26193 20030820	US20040801466 20040316	WO2004US09184 20040325
WO2004US20418 20040623	US20040878582 20040628	US20050521500 20050111
WO2003US26193 20050111	US20060598477 20061113	US20110051340 20110318

Probable Assignee: KURARAY CO LTD

Assignee(s): (std): BAUER RICHARD DOUGLAS ; DU PONT ; ROMAN RONALD ; ELWAKIL HAMDY A ; ELWAKIL HAMDY ; HERMANSKY CLARENCE GAETANO ; EIDU PONT DE NEMOURS AND CO ; KURARAY AMERICA INC ; KURARAY CO LTD ; SMITH REECCA L ; TANG CHAUCER C ; SMITH REBECCA L

Assignee(s): EI DU PONT DE NEMOURS AND CO ; EI DUPONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; E I DU PONT DE NEMOURS CO ; E I DUPONT DE NEMOURS AND COMPANY ; E I DUPONT DE NEMOURS AND CO

Inventor(s): (std): ELWAKIL HAMDY ; HAMDY ELWAKIL ; RONALD ROMAN ; ROMAN RONALD ; ELWAKIL HAMDY A ; HERMANSKY CLARENCE GAETANO ; BAUER RICHARD DOUGLAS ; TANG CHAUCER C ; SMITH REBECCA L ; SMITH REECCA L ; BAUER RICHARD ; HERMANSKY CLARENCE

Inventor(s): REBECCA L SMITH ; CHAUCER C TANG ; SMITH REBECCA ; SMITH REECCA ; TANG CHAUCER

Agent(s): SPRUSON AND FERGUSON; CALLINANS; FISHER ADAMS KELLY CALLINANS; TORYS LLP; ABE KAZUO; TANI YOSHIKAZU; E I DU PONT DE NEMOURS AND CO LEGAL PATENT RECORDS CENTER; KEVIN S DOBSON, E I DU PONT DE NEMOURS AND COMPANY; KEVIN S DOBSON E I DU PONT DE NEMOURS AND CO; E I DU PONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER; BART E; KEVIN S; MARK D; OBLON 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 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

6) Family number: 31392645 (US2007027259A)

PatBase

Title: VULCANIZED FLUORINE RUBBER AND CUSHIONING MATERIAL FOR HEAT PRESS CONTAINING SAME

Abstract: A vulcanized fluoro rubber is provided by vulcanizing a composition comprising 100 parts by mass of mixture in which a raw fluoro rubber (A) in which appropriate amount of vulcanizing agent has been previously compounded and a raw fluoro rubber (B) in which the vulcanizing agent is not compounded are mixed at a rate of 8/2 to 3/7, 1 to 10 parts by mass of an acid acceptor and 0 to 5 parts by mass of another compounding agent which is compounded as needed. Number average molecular weight of each of the raw fluoro rubber (A) and the raw fluoro rubber (B) is 3.5×10^4 to 2.0×10^5 .

Classifications:

International (IPC 8-9): B29C35/02 B29C43/02 B29C43/18 B29C43/32 B29C45/00 B29C47/00 B29C51/00 B29C51/02 B29C51/36 B29C65/00 B29D24/00 B29D29/00 B30B15/06 B32B17/00 B32B17/10 B32B25/04 B32B25/10 B32B25/14 B32B27/36 B32B27/42 B32B37/00 B32B37/06 B32B37/15 B32B38/00 B32B7/10 B32B9/00 B60J1/02 C03C27/00 C03C27/12 C08J3/22 C08K3/22 C08K5/13 C08L27/12 H01B3/44 (Advanced/Invention);

B29C51/00 B29C51/14 B32B38/12 H05K3/02 (Advanced/Non-invention); B29C43/02 B29C43/18 B29C51/30 B30B15/06 B32B17/06 B32B27/36 C03C27/12 C08J3/20 C08K3/00 C08K5/00 C08L27/00 H01B3/44 (Core/Invention); B29C51/00 B29C51/14 B32B38/12 H05K3/02 (Core/Non-invention)

International (IPC 1-7): B29C35/02 B29C43/02 B29C43/32 B29C51/02 B32B17/10 B32B25/04 B32B25/14 B32B31/02 B32B31/04 B32B31/14 B60J1/02 C03C27/12 C08K3/22 C08K5/13 C08L27/12

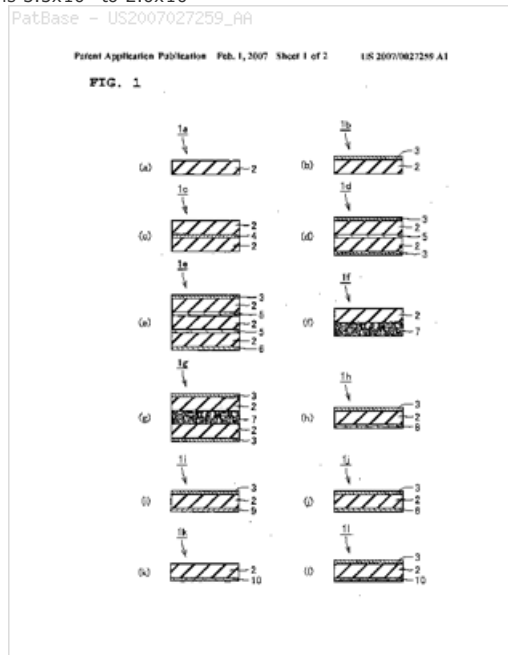
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European: B29C43/18 B29C51/36 B30B15/06B B32B15/06 B32B17/10C4 B32B17/10E B32B17/10E10 B32B17/10G28 B32B17/10L10 B32B17/10L14 B32B17/10L22 B32B25/06 B32B25/08 B32B25/10 B32B25/14 B32B27/28A B32B27/36 B32B31/00C6 B32B38/18D B32B5/02A B32B5/02B C08J3/22L C08L27/12 H01B3/44D2 L29C47/00J9 L29C47/00L7 L29C47/00L8 L29C51/00 L29C51/14 L29C66/71 L29C66/7465 L29C791/00B L29K67/00 L29K709/08 L29L31/778 L32B250/40 L32B255/02 L32B255/26 L32B262/10A L32B307/102 L32B315/08 L32B329/06 L32B367/00 L32B38/12 L32B457/08 M08J427/00 M08K3/22 M08L205/02 M08L27/12 T05K3/02C

US: 156/101 156/102 156/106 156/307.3 156/99 156/99P 264/511 264/548 428/421 428/430 428/437 428/463 428/492 524/500 525/197 525/199 525/199P

Family:

Publication number	Publication date	Application number	Application date
AT417076 E	20081215	AT20040734098T	20040520
AT504438 E	20110415	AT20040741796T	20040614
BRPI0410724 A	20060620	BR2004PI10724	20040614



CN100455623 C	20090128	CN200480011742	20040520
CN100581813 C	20100120	CN200480016438	20040614
CN1780881 A	20060531	CN200480011742	20040520
CN1805849 A	20060719	CN200480016438	20040614
DE602004018310 D1	20090122	DE200460018310T	20040520
DE602004032136 D1	20110519	DE200460032136T	20040614
EP1632531 A1	20060308	EP20040734098	20040520
EP1632531 A4	20070704	EP20040734098	20040520
EP1632531 B1	20081210	EP20040734098	20040520
EP1636025 A1	20060322	EP20040741796	20040614
EP1636025 B1	20110406	EP20040741796	20040614
JP2005002148 A2	20050106	JP20030164179	20030609
JP4316937 B2	20090819	JP20030164179	20030609
KR100718389 B1	20070514	KR20047017956	20040520
KR20050025178 A	20050311	KR20047017956	20040520
MXPA05013357 A1	20060309	MX2005PA13357	20040614
TW200513369 A	20050416	TW20040115053	20040527
TWI303604 B	20081201	TW20040115053	20040527
US2007027259 AA	20070201	US20050560189	20051209
US2007029026 AA	20070208	US20040560180	20040614
US7638011 BB	20091229	US20040560180	20040614
US7671133 BB	20100302	US20050560189	20051209
WO04108819 A1	20041216	WO2004JP06843	20040520
WO04110747 A1	20041223	WO2004EP51106	20040614

Priority:

JP20030164179 20030609 EP20030425381 20030612 WO2004JP06843 20040520
EP20040741796 20040614 WO2004EP51106 20040614 WO2004JP06843 20041108

Probable Assignee: YAMAUCHI CORP

Assignee(s): (std): PILKINGTON ITALIA S P A ; PILKINGTON ITALIA SPA ; YAMAUCHI CORP ; YOSHIDA AKIRA ; BOLOGNESE LITTERIO

Inventor(s): (std): AKIRA YOSHIDA ; BOLOGNESE LITTERIO ; LITTERIO BOLOGNESE ; YOSHIDA AKIRA

Agent(s): HOFFMANN JOERG PETER; PETTET NICHOLAS EDWARD; ITOH HIDEHIKO; YOSHIDA HIROYOSHI; MORISHITA HACHIRO; DITTHAVONG AND CARLSON; BUCHANAN INGERSOLL AND ROONEY PC; DITTHAVONG MORI AND STEINER 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 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

7) Family number: 42522939 (US2008286542A)

PatBase

Title: DECORATIVE SAFETY GLASS

Abstract: An image-bearing article comprising a film layer bearing an image and an acoustic poly(vinyl acetal) interlayer sheet having a Glass transition temperature of 23 degrees centigrade or less. In addition, a process of preparing an image-bearing article comprising an image-bearing film layer and an acoustic poly(vinyl acetal) interlayer sheet: (a) providing a film layer; (b) printing an image on the film layer so as to produce an image-bearing film layer containing an image-bearing side; and (c) laminating an the acoustic poly(vinyl acetal) interlayer sheet to the image-bearing side of the image-bearing film layer. Preferably the film layer is coated on the image-bearing side and over the image with an adhesion promoter.

Classifications:

International (IPC 8-9): B32B17/06 B32B27/36 B32B37/12 B32B7/02 B32B9/04 (Advanced/Invention); B32B17/06 B32B27/36 B32B37/12 B32B7/02 B32B9/04 (Core/Invention)

IPC: B32B17/10036 B32B17/10 B32B17/10018 B32B17/10174 B32B17/10247 B32B17/10761 B32B38/145 C08K5/0016 Y10T156/10 Y10T428/2495 Y10T428/31504 Y10T428/31507 B32B17/10605 B32B17/10284

European: B32B17/10 B32B17/10C2 B32B17/10C4 B32B17/10E10 B32B17/10E12 B32B17/10G28 C08K5/00P1 L32B38/14A

US: 156/60 156/60S 428/213 428/213P 428/411.1 428/411.100S 428/412 428/412S 428/426 428/426S

Family:

Publication number	Publication date	Application number	Application date
US2008286542 AA	20081120	US20070804086	20070517

Priority:

US20070804086 20070517

Probable Assignee: E I DU PONT DE NEMOURS AND CO

Assignee(s): (std): HAYES RICHARD ALLEN ; SMITH REBECCA L

Assignee(s): E I DU PONT DE NEMOURS AND CO

Inventor(s): (std): HAYES RICHARD ALLEN ; SMITH REBECCA L

Agent(s): E I DU PONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER; E I DU PONT DE NEMOURS AND CO LEGAL PATENT RECORDS CENTER

8) Family number: 32220346 (US2005196560A)

PatBase

Title: DECORATIVE LAMINATED SAFETY GLASS

Abstract: The present invention is a decorative laminated article comprising an image bearing thermoplastic interlayer wherein the image has been printed on the interlayer using an ink jet printing process, wherein the image comprises a white pigment on the surface of the thermoplastic interlayer. The present invention is also a process for ink-jet printing white pigment ink on a thermoplastic polymer to obtain an image bearing laminate with good adhesive qualities.

Classifications:

International (IPC 8-9): B32B17/10 B32B27/00 B41J2/01 B41M5/40 C03C17/00 C03C27/10 C03C27/12 C09D11/00 C09D11/02 D06P5/30 (Advanced/Invention); C03C27/12 (Advanced/Non-invention); D06P5/30 (Core/Invention)

International (IPC 1-7): B32B17/10 B41J2/01 B41M5/40 C03C17/00 C09D11/00 C09D11/02

CPC: B32B17/10247 B32B17/10339 B32B17/10688 B32B17/10761 B41M5/0047 B41M5/0064 B41M7/0027 C03C27/10 C09D11/36 C09D11/40 D06P5/30

European: B32B17/10E12 B32B17/10E26 B32B17/10G12 B32B17/10G28 B41M5/00S2 B41M7/00C C03C27/10 C09D11/36 C09D11/40 D06P5/30 L41M5/00S8

US: 106/31.6 106/31.600S 106/31.9 106/31.900S 347/100 347/100S 347/101 347/105 428/32.1 428/32.34 428/32.340P 428/321 523/160 523/161 523/161S

Family:

Publication number	Publication date	Application number	Application date
AT443739 E	20091015	AT20050724240T	20050302
AU2005219867 AA	20050915	AU20050219867	20050302
AU2005219867 BB	20091008	AU20050219867	20050302
CN1926205 A	20070307	CN200580006582	20050302
CN1926205 B	20130828	CN200580006582	20050302
DE602005016785 D1	20091105	DE200560016785T	20050302
EP1730244 A1	20061213	EP20050724240	20050302
EP1730244 B1	20090923	EP20050724240	20050302
ES2330654 T3	20091214	ES20050724240T	20050302
JP2007526389 T2	20070913	JP20070501912T	20050302
JP4852031 B2	20120111	JP20070501912T	20050302
PT1730244 T	20091116	PT20050724240T	20050302
US2005196560 AA	20050908	US20050070687	20050302
US2005215664 AA	20050929	US20050070714	20050302
US7278730 BB	20071009	US20050070687	20050302
WO05085371 A1	20050915	WO2005US06653	20050302

Priority:

US20040549607P 20040302 US20050070687 20050302 US20050070714 20050302
WO2005US06653 20050302

Probable Assignee: KURARAY CO LTD

Assignee(s): (std): DU PONT ; ELWAKIL HAMDY A ; MCINTYRE PATRICK F ; EIDU PONT DE NEMOURS AND CO

Assignee(s): KURARAY AMERICA INC ; KURARAY CO LTD ; EI DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; E I DU PONT DE NEMOURS CO ; E I DUPONT DE NEMOURS AND CO ; E I DUPONT DE NEMOURS AND COMPANY ; EI DUPONT DE NEMOURS AND CO

Inventor(s): (std): ELWAKIL HAMDY A ; MCINTYRE PATRICK F ; ELWAKIL HAMDY

Inventor(s): HAMDY A ELWAKIL ; MCINTYRE PATRICK

Agent(s): HOULIHAN2; HOULIHAN2; HOULIHAN2 PTY LTD; MORF JAN STEFAN; KUMAKURA YOSHIO; OGAWA NOBUO; HAKODA ATSUSHI; HIRAYAMA KOJI; ASAI KENJI; E I DU PONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER; E I DU PONT DE NEMOURS AND CO LEGAL PATENT RECORDS CENTER; KEVIN S

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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

9) Family number: 70158351 (WO19064281A1)

PatBase

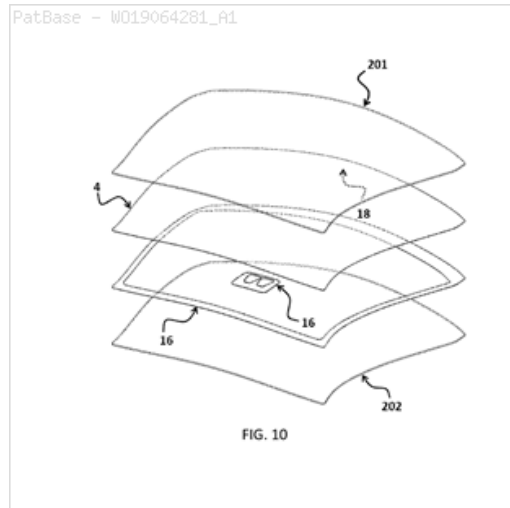
Title: GLASS LAMINATE WITH THIN INSERT OBSCURATION HAVING SUPERIOR STRENGTH AND OPTICAL QUALITY

Abstract: Black enamel frit obscurations are commonly printed on laminated and tempered automotive safety glazing where they serve to hide the adhesive used to bind the glazing to the automotive body and to protect the adhesive from ultraviolet radiation. However, frit has a number of drawbacks. Frit weakens the surface of the glass. It can create distortion in the glass due to thermal gradients. Printed frit obscurations are incompatible and cannot be used with many types of coatings. Standard frit blocks ion exchange and cannot be used with the chemical tempering process. In addition, while many types of frits are available for printing on soda-lime glass, there are very few, if any, for non-soda lime glass. As the market moves towards thinner and lighter glazing, non-soda lime glass types are finding increasing application in automotive glazing. These limitations are overcome by replacing the printed black obscuration with an obscuration formed from a thin sheet of plastic, which is integrated into the laminate. This results in a laminate having superior optical quality, higher strength and a lower probability of breakage as compared to a laminate with a black enamel frit obscuration.

Classifications:

International (IPC 8-9): B32B17/10 B32B3/00 B32B3/08 C03B13/00 C03B13/10 C03B23/02 C03B23/03 C03C27/12 (Advanced/Invention)

CPC: B32B17/10339 B32B17/10036 B32B17/10119 B32B17/10137 B32B17/10174 B32B17/10293 B32B17/10348 B32B17/10495 B32B17/1066 B32B17/10761

**Family:**

Publication number	Publication date	Application number	Application date
■ CO20170013388 A1	20180320	CO20170013388	20171226
■ CO20180002418 A1	20180620	CO20180002418	20180302
■ WO19064281 A1	20190404	WO20181B57595	20180929

Priority:

US20170566254P 20170929 US20170612424P 20171230 CO20180002418 20180302

Probable Assignee: AGP AMERICA SA

Assignee(s): (std): AGP AMERICA S A ; AGP AMERICA SA

Inventor(s): (std): GRANADOS CARO LAURA ; CORNEJO IVAN ARTURO ; CORNEJO FIGUEROA IVAN ARTURO ; MANNHEIM ASTETE MARIO ARTURO ; SARMIENTO SANTOS ANDRES FERNANDO ; MENDOZA CARRANZA ELENA K ; VOELTZEL CHARLES STEPHEN ; MANNHEIM ASTETE MARIO ARTURO BENJAMIN

Inventor(s): ANDRES FERNANDO SARMIENTO SANTOS ; CHARLES STEPHEN VOELTZEL ; ELENA K MENDOZA CARRANZA ; IVAN ARTURO CORNEJO FIGUEROA ; MARIO ARTURO BENJAMIN MANNHEIM ASTETE ; LAURA GRANADOS CARO

Agent(s): CARLOS REINALDO OLARTE GARCIA; URDANETA DANIEL

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 JO 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

10) Family number: 28248593 (US2002086141A)

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Title: LAMINATED GLASS WINDSCREEN INTENDED TO BE USED AT THE SAME TIME AS A HUD SYSTEM REFLECTOR

Abstract: A laminated safety glass windscreen, which can also be used as a reflector in a HUD system, comprises at least first and second panes and a thermoplastic intermediate layer which joins these panes together. The cross-section of the intermediate layer is in the shape of a wedge, decreasing in thickness from top to bottom. The thermoplastic intermediate layer may be composed of two sheets, one of which is provided with a colored filtering strip and has a wedged cross-section conditioned by the appearance of this filtering strip. The other sheet has a wedged cross-section such that the two sheets together have the prescribed convergence angle for using the windscreen as a reflector.

Classifications:

International (IPC 8-9): B32B17/06 B32B17/10 B60J1/00 C03C27/12

G02B27/00 G02B27/01 (Advanced/Invention);

G02B27/00 (Advanced/Non-invention);

B32B17/06 G02B27/00 G02B27/01 (Core/Invention)

International (IPC 1-7): B32B17/00 B32B17/06 B32B17/10 B32B3/00

B60J1/00 B60J1/02 C03C27/12 G02B27/00 G02B27/01 G02B27/14

G09G5/00

CPC: Y10T428/24479 Y10T428/24612 Y10T428/2495 B32B17/10036

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G02B2027/0121 Y10T428/31601 Y10T428/31616

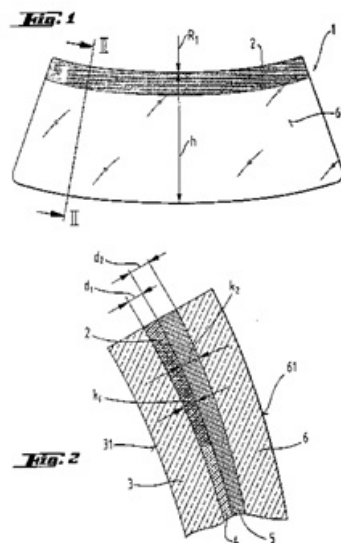
European: B32B17/10 B32B17/10C4 B32B17/10E26 B32B17/10G28

B32B17/10G2B G02B27/01A S02B27/01A4A1

US: 156/106 156/106S 156/107 156/107S 296/84.1 345/7 359/630

428/156 428/156P 428/156S 428/172 428/172P 428/213 428/425.6

428/430

**Family:**

Publication number	Publication date	Application number	Application date
AT254293 E	20031115	AT19980401850T	19980721
BRPI9802589 A	20001219	BR1998PI02589	19980723
CZ295628 B6	20050914	CZ19980002350	19980724
CZ9802350 A3	19990217	CZ19980002350	19980724
DE69819616 D1	20031218	DE19986019616	19980721
DE69819616 D1	20031218	DE19986019616T	19980721
DE69819616 T2	20040930	DE19986019616T	19980721
EP0893726 A1	19990127	EP19980401850	19980721
EP0893726 B1	20031112	EP19980401850	19980721
ES2210686 T3	20040701	ES19980401850T	19980721
JP11130481 A2	19990518	JP19980206033	19980722
JP4890667 B2	20120307	JP19980206033	19980722
KR100591241 B1	20061004	KR19980029243	19980721
KR19990014021 A	19990225	KR19980029243	19980721
PL189225 B1	20050729	PL19980327622	19980721
PL327622 A1	19990201	PL19980327622	19980721
PT893726 T	20040430	PT19980401850T	19980721
US2002086141 AA	20020704	US19980121844	19980724
US2002172804 AA	20021121	US20020156106	20020529
US2005142332 AA	20050630	US20050057161	20050215
US6866918 BB	20050315	US20020156106	20020529

Priority:

DE19971031873	19970724	DE19971031873U	19970724	DE19971037873	19970724
DE19986019616T	19980721	US19980121844	19980724	US20020156106	20020529
US20050057161	20050215				

Probable Assignee: SAINT GOBAIN GLASS FRANCE**Assignee(s):** (std): SAINT GABAIN VITRAGE ; SAINT GOBAIN ; SAINT GOBAIN VITRAGE ; SAINT GOBIAN VITRAGE ; SAUER GERD**Assignee(s):** SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN GLASS FRANCE COURBEVOIE**Inventor(s):** (std): SAUER GERD**Inventor(s):** GERD SAUER**Agent(s):** TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI; OBLON SPIVAK
MCCLELLAND MAIER AND NEUSTADT PC**Designated states:** AT BE CH DE ES FR GB IE IT LI LU PT SE**11) Family number: 30277407** (US2005285920A)

© PatBase

Title: INK-JET PRINTED RIGID INTERLAYER AND A PROCESS FOR PREPARING SAME**Abstract:** The present invention is a decorative glass laminate comprising a rigid interlayer bearing a printed image that has

been ink-jetted onto at least one of the interlayer surfaces, and a process for preparing same. The interlayer has a storage young's modulus of 50-1000 Mla at 0.3 Hz and 25C, as determined according to ASTM D 5026-95a and a finite thickness of less than equal to about 0.38 mm.

Classifications:

International (IPC 8-9): B32B17/10 B41J11/00 B41J2/01 B41J3/407 B41M5/00 B41M5/50 B41M5/52 B44C5/04

B44F1/06 (Advanced/Invention);

B41M7/00 (Advanced/Non-invention)

International (IPC 1-7): B41J2/01 B41M5/00 B44C5/04

CPC: B32B17/10247 B32B17/10577 B32B17/10743 B32B17/10761 B41J3/407 B41J11/0015 B41M5/0047 B41M5/0064 B41M7/0027 B44F1/066

European: B32B17/10E12 B32B17/10G24 B32B17/10G28 B32B17/10G2D B41J11/00C B41J3/407 B41M5/00S2 B41M5/00S8

B44F1/06D L41M7/00C

US: 347/101 347/101S 347/105 347/105P 428/32.1

Family:

Publication number	Publication date	Application number	Application date
AU2003257995 AA	20040216	AU20030257995	20030731
AU2003257995 BB	20080522	AU20030257995	20030731
CA2494057 AA	20050131	CA20032494057	20030731
CN100379578 C	20080409	CN20038018385	20030731
CN1671560 A	20050921	CN20038018385	20030731
DE60312338 D1	20070419	DE20036012338	20030731
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DE60312338 T2	20071129	DE20036012338T	20030731
EP1525099 A1	20050427	EP20030772174	20030731
EP1525099 B1	20070307	EP20030772174	20030731
JP2005534527 T2	20051117	JP20040524278T	20030731
MXPA05001118 A1	20050428	MX2005PA01118	20030731
US2005285920 AA	20051229	US20030519655	20030731
US7232213 BB	20070619	US20030519655	20030731
WO04011271 A1	20040205	WO2003US24116	20030731

Priority:

US20020400232P 20020731 US20030519655 20030731 WO2003US24116 20030731
US20040519655 20041227

Probable Assignee: KURARAY CO LTD

Assignee(s): (std): DU PONT ; EIDU PONT DE NEMOURS AND CO ; ELWAKIL HAMDY ; SMITH REBECCA L

Assignee(s): KURARAY AMERICA INC ; KURARAY CO LTD ; E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; EI DU PONT DE NEMOURS AND CO

Inventor(s): (std): ELWAKIL HAMDY ; HAMDY ELWAKIL ; SMITH REBECCA L

Inventor(s): REBECCA L SMITH ; SMITH REBECCA

Agent(s): SPRUSON AND FERGUSON; CALLINANS; FISHER ADAMS KELLY CALLINANS; TORYS LLP; ABE KAZUO; TANI YOSHIKAZU; KEVIN S DOBSON, E I DU PONT DE NEMOURS AND COMPANY; KEVIN S DOBSON E I DU PONT DE NEMOURS AND CO; KEVIN S

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 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

12) Family number: 70158379 (WO19064279A1)

© PatBase

Title: GLASS LAMINATE WITH INLAY OBSCURATION HAVING SUPERIOR STRENGTH AND OPTICAL QUALITY

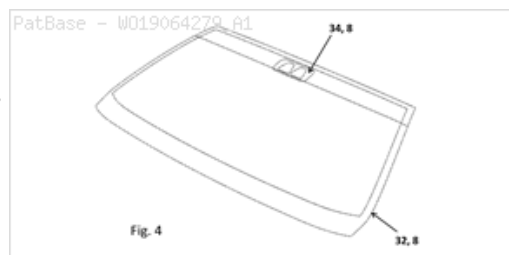
Abstract: The use of camera-based safety systems is growing at a rapid rate in modern automobiles. At the same time, windshields, where many of the cameras are mounted, are becoming larger and more complex in shape. As the industry moves towards vehicles with full autonomous capability, the number of cameras required and the resolution of the cameras are both increasing. However, the optical quality of the windshield is less than optimal. One of the problems is caused by the typical black enamel frit that is printed on the glass, prior to heating and bending, to hide or obscure the camera hardware. The abrupt thermal gradients during bending, caused by the heat absorbing black frit, result in a high level of distortion in the camera field of view. The object of this invention is to provide a laminated automotive glazing having an obscuration area produced by creating an obscuration after heating and bending the glass by removing a portion of the plastic interlayer glass in or near the camera field of view (camera obscuration) or/and in the edges of the windshield (black band) and replacing it with an inlay made of a substantially opaque plastic or other suitable material in or near the camera field of view (camera obscuration) or/and in the edges of the windshield (black band) rather than printing and firing an enamel frit on the glass. This results in a laminate having superior optical quality, higher strength and a lower probability of breakage as compared to a laminate with a black enamel frit obscuration.

Classifications:

International (IPC 8-9): B32B3/08 C03C27/12

F41H5/04 (Advanced/Invention)

CPC: B32B3/08 B32B17/10036 B32B17/10174 B32B17/10293 B32B17/10568 B32B17/1066 B32B17/10743 B32B17/10761 B32B17/1077 B32B17/10788 B32B17/10908 B32B17/10981



Family:

Publication number	Publication date	Application number	Application date
CO20170012699 A1	20180228	CO20170012699	20171211
WO19064279 A1	20190404	WO20181B57593	20180929

Priority:

US20170566227P 20170929

Probable Assignee: AGP AMERICA SA

Assignee(s): (std): AGP AMERICA S A ; AGP AMERICA SA

Inventor(s): (std): GRANADOS CARO LAURA ; MANNHEIM ASTETE MARIO ARTURO ; MENDOZA CARRANZA ELENA K ; ROJAS VALLE MERLYN ; SARMIENTO SANTOS ANDRES FERNANDO ; VOELTZEL CHARLES STEPHEN

Inventor(s): MERLYN ROJAS VALLE ; MARIO ARTURO BENJAMIN MANNHEIM ASTETE ; LAURA GRANADOS CARO ; ANDRES FERNANDO SARMIENTO SANTOS ; CHARLES STEPHEN VOELTZEL ; ELENA K MENDOZA CARRANZA

Agent(s): CARLOS REINALDO OLARTE GARCIA ; URDANETA DANIEL

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 JO 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

13) Family number: 71980431 (WO18213213A1)

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Title: LAMINATE HAVING ORGANIC INK DECORATION AND HIGH IMPACT RESISTANCE

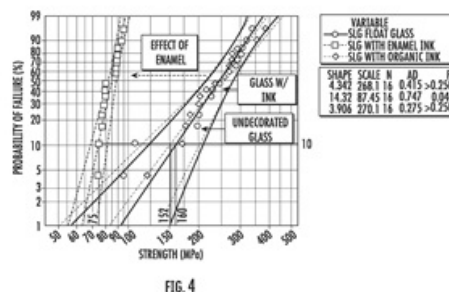
Abstract: A decorated laminate including: an outer ply; an inner ply; a polymer interlayer between the inner ply and the outer ply; and organic ink printed decoration on one or both of internal surfaces of the laminate between the outer ply and the polymer interlayer or between the inner ply and polymer interlayer, wherein the decorated laminate has a stone impact resistance as defined herein. Also disclosed is a method of making and using the decorated laminate.

Classifications:

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

CPC: B32B17/10348 B32B17/10036 B32B17/10137 B32B17/10266 B32B17/10743 B32B17/10761 B32B17/1077 B32B17/10788

PatBase - WO18213213_A1



Family:

Publication number	Publication date	Application number	Application date
WO18213213 A1	20181122	WO2018US32625	20180515

Priority:

US20170506018P 20170515

Probable Assignee: CORNING INC

Assignee(s): (std): CORNING INC

Inventor(s): (std): CLEARY THOMAS MICHAEL ; FRISKE MARK STEPHEN ; HUTEN TIMOTHY SCOTT

Agent(s): PATEL PAYAL A 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 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 JO 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

14) Family number: 70246991 (WO18115090A1)

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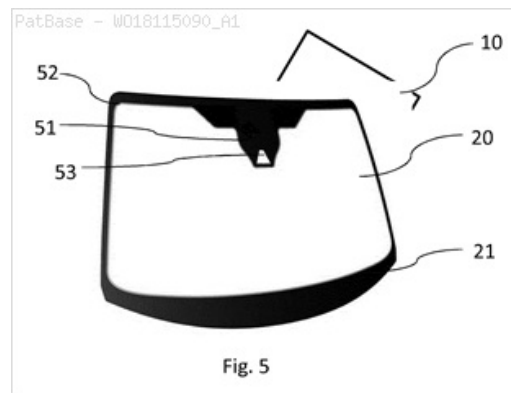
Title: LAMINATED GLAZING

Abstract: The invention relates to laminated glazing comprising a first (11) and a second (12) sheet of glass laminated via at least one thermoplastic interlayer (20), and an optical sensor arranged on the inner face of the laminated glazing. According to the invention, this type of glazing comprises at least one thermoplastic interlayer (20) including a zone that is opaque to visible wavelengths (21) and that extends at least in the zone surrounding the optical sensor (51).

Classifications:

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

CPC: B32B17/1066 B32B17/10036 B32B17/10348 B32B17/10761 B32B17/10788 B32B17/10018 B32B2375/00



Family:

Publication number	Publication date	Application number	Application date
WO18115090 A1	20180628	WO2017EP83755	20171220

Priority:

EP20160205589 20161221

Probable Assignee: AGC GLASS EUROPE

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

Inventor(s): (std): COLLIGNON MAXIME ; LATNER MAREK ; LEGRAND DENIS ; OCCHIONORELLI GIOVANNI ; SARTENAER YANNICK

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 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 JO JP KE KG KH KM KN KP KR KW KZ LA LC 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

15) Family number: 73343567 (WO19038043A1)

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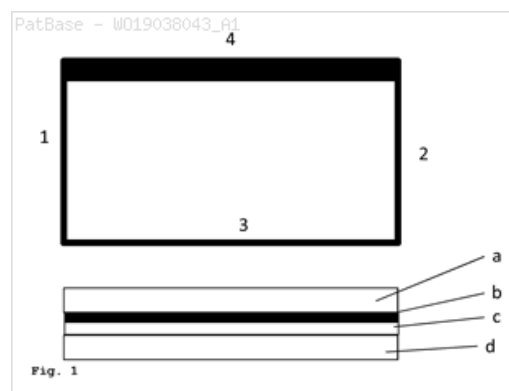
Title: LAMINATED GLASS COMPRISING INTERLAYER FILM LAYERS WITH A PIGMENTED FRAME

Abstract: The invention is directed to Laminated glass obtained by laminating at least one film A containing a polyvinyl acetal PA and optionally at least one plasticiser WA and at least one film B containing a polyvinyl acetal PB and at least one plasticiser WB between two glass sheets, characterised in that prior to lamination; - the amount of plasticiser WA in film A is less than 22 percent by weight; - the amount of plasticiser WB in film B is at least 22 percent by weight and - film A comprises at least on one surface a non-transparent region.

Classifications:

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

CPC: B32B17/10651 B32B17/10036 B32B17/10275 B32B17/1066 B32B17/10761 B32B17/10



Family:

Publication number	Publication date	Application number	Application date
WO19038043 A1	20190228	WO2018EP70896	20180801

Priority:

US20170550015P 20170825

Probable Assignee: KURARAY CO LTD

Assignee(s): (std): KURARAY EUROPE GMBH

Assignee(s): KURARAY CO LTD

Inventor(s): (std): BUTLER CHARLES ; FUSS ROBERT ; KELLER UWE ; STEINBACH NIKLAS

Agent(s): KISTERS MICHAEL

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 JO JP KE KG KH KM KN KP KR KW KZ LA LC 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: METHOD FOR PRODUCING PRINTED COMPOSITE PLATE FOR, E.G. SLIDING ROOF OF VEHICLE, INVOLVES LAMINATING COMPOSITE SHEET THAT IS PRINTED USING INKJET PRINTER BEFORE PERFORMING LAMINATION PROCESS, BETWEEN OUTER AND INNER PANES

Abstract: The method involves laminating composite sheet which is printed using inkjet printer before performing lamination process, between outer pane and inner pane so as to obtain composite plate. The composite sheet is made of ionomer material. The inner pane is made of plastic material. The composite sheet is provided for covering predetermined portions of the vehicle and shadowing of solar radiation.

Classifications:

International (IPC 8-9): B41M5/00 B60J1/02 C03C27/12 (Advanced/Invention)

CPC: B32B17/10018 B32B17/10743 B32B2333/12 B32B2367/00 B32B2369/00 B32B17/10275 B32B17/10247

Family:

Publication number	Publication date	Application number	Application date
 DE102011004500 A1	20120823	DE201110004500	20110222

Priority:

DE201110004500 20110222

Probable Assignee: BMW AG

Assignee(s): (std): BAYERISCHE MOTOREN WERKE AG ; BMW AG

Assignee(s): BAYERISCHE MOTOREN WERKE AKTIENGESELLSCHAFT

Inventor(s): (std): MOHR PHILIPP ; WIETHALER TOBIAS