

Search history

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2:

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4: 46846511:170 or 46846506:170 or 33059021:170 or 30189922:170 or 29360992:170 or 28542997:170 or 23488289:170 or 20665089:170 or 57835540:160 or 57713052:160 or 57418514:160 or 55977136:160 or 50950217:160 or 50804230:160 or 47486894:160 or 46846543:160 or 46846540:160 or 46846530:160 or 46846529:160 or 46846528:160 or 46846526:160 or 46846524:160 or 46846523:160 or 46846522:160 or 46846521:160 or 46846520:160 or 46846512:160 or 46846510:160 or 44467877:160 or 44467871:160 or 44467863:160 or 43764493:160 or 43217017:160 or 41818180:160 or 35999224:160 or 34446024:160 or 34381924:160 or 33080587:160 or 32886584:160 or 32842055:160 or 32363939:160 or 31762853:160 or 31762850:160 or 31762831:160 or 31172518:160 or 30200202:160 or 29586315:160 or 29586314:160 or 29581956:160 or 28183994:160 or 28162234:160 or 22990931:160 or 20665484:160 or 20638670:160 or 8395876:160 or 3593814:160 or 64458710:150 or 58448937:150 or 57944737:150 or 57424763:150 or 57225398:150 or 56489350:150 or 55977141:150 or 54589400:150 or 54272548:150 or 51888468:150 or 51446922:150 or 46846537:150 or 46846532:150 or 46846525:150 or 46846516:150 or 46846509:150 or 43874007:150 or 43764166:150 or 33814817:150 or 33094953:150 or 32660478:150 or 31969629:150 or 31714229:150 or 30825298:150 or 30669505:150 or 30669503:150 or 30249047:150 or 29787155:150 or 29380123:150 or 28608774:150 or 15171195:150 or 15051120:150 or 12137784:150 or 11976809:150 or 11566932:150 or 10761527:150 or 9509434:150)
(Results 100)

Search 4 and oxide (Results 87)

5:

Search 5 and dielectric (Results 63)

6:

Search 6 and metal (Results 44)

7:

Search 7 and TiO2 (Results 6)

8:

Title: AMORPHOUS **OXIDE** FILM AND ARTICLE HAVING SUCH FILM THEREON

Abstract: Source: US5110637A An amorphous **oxide** film composed essentially of an **oxide** containing at least one member selected from the group consisting of Zr, Ti, Hf, Sn, Ta and In and at least one member selected from the group consisting of B and Si.

Classifications:

International (IPC 8-9): B32B15/01 B32B15/04 B32B15/08 B32B17/00 B32B17/04 B32B17/06 B32B17/10 B32B27/06 B32B33/00 B32B7/02 B32B9/00 B60J1/00 B60R11/02 B60S1/02 C03C17/00 C03C17/02 C03C17/22 C03C17/23 C03C17/24 C03C17/25 C03C17/36 C03C17/38 C03C17/42 C03C23/00 C03C27/12 C03C3/04 C03C3/06 C03C3/14 C23C14/06 C23C14/08 C23C14/10 C23C14/34 C23C4/04 E06B5/00 G02B1/10 G02B1/11 G02B3/00 G02B5/08 G02B5/20 G02B5/28 G02F1/13 G02F1/1343 G03B27/62 G03F1/14 G03F1/46 G03G15/04 G06K19/00 G06K19/06 G06K7/01 G06K7/10 G11B5/64 G11B5/72 G11B5/84 H01B1/08 H01B1/16 H01B13/00 H01B5/14 H01J37/34 H01Q1/32 (Advanced/Invention); G02F1/1333 G02F1/1335 (Advanced/Non-invention); B32B15/04 B32B15/08 B32B17/00 B32B17/04 B32B17/06 B32B27/06 B32B33/00 B32B7/02 B32B9/00 B60R11/02 B60S1/02 C03C17/00 C03C17/22 C03C17/23 C03C17/25 C03C17/34 C03C17/36 C03C17/42 C03C23/00 C03C27/12 C03C3/04 C03C3/12 C23C14/06 C23C14/08 C23C14/10 C23C14/34 C23C4/04 G02B1/10 G02B3/00 G02B5/08 G02F1/13 G03B27/62 G03F1/14 G03G15/04 G06K19/00 G06K19/06 G06K7/01 G06K7/10 G11B5/64 G11B5/72 G11B5/84 H01B1/08 H01B1/14 H01B13/00 H01B5/14 H01J37/32 H01Q1/32 (Core/Invention); G02F1/13 (Core/Non-invention)

International (IPC 1-7): B05D1/36 B32B15/00 B32B15/01 B32B15/04 B32B15/08 B32B17/00 B32B17/04 B32B17/06 B32B17/10 B32B33/00 B32B7/02 B32B9/00 B60J1/00 B60R11/02 B60S1/02 C03C17/00 C03C17/02 C03C17/22 C03C17/23 C03C17/24 C03C17/36 C03C17/38 C03C23/00 C03C27/12 C03C3/04 C03C3/06 C03C3/112 C03C3/14 C03C3/155 C23C14/00 C23C14/06 C23C14/08 C23C14/10 C23C14/34 C23C4/04 E06B3/24 E06B5/00 G02B1/10 G02B3/00 G02B5/08 G02B5/20 G02B5/28 G02F1/1343 G03B27/62 G03F1/14 G03G15/04 G06K19/00 G06K19/06 G06K7/01 G06K7/10 G11B5/66 G11B5/72 G11B5/84 H01B1/08 H01B1/16 H01B13/00 H01B5/14

CPC: Y10S428/90 G11B5/72 Y10T428/24942 Y10T428/31678 Y10T428/31529 Y10T428/31667 Y10T428/31692 B32B17/10036

B32B17/10229 B32B17/10761 B32B2457/12 G02B1/14 Y02T10/90 B32B17/10174 B32B27/06 C03C17/38 C03C17/42 C03C2217/732 C23C14/10 C23C14/3407 G02B1/116 G02F1/133502 G02F2001/133337 H01J37/3426 H01J37/3435 H01J37/3491 C03C17/23 C03C17/245 C03C17/25 C03C17/3417 C03C17/3435 C03C17/3482 C03C17/3488 C03C17/36 C03C17/3605 C03C17/3613 C03C17/3615 C03C17/3618 C03C17/3626 C03C17/3639 C03C17/3644 C03C17/3652 C03C17/3655 C03C17/3657 C03C17/3681 C03C2217/213 C03C2217/229 C03C2217/23 C03C2217/242 C03C2217/78 C03C2218/11 C03C2218/15 C03C2218/154 C23C14/08 C23C14/3414 G02B1/10 G02B1/105

European: B32B17/10E10 B32B27/06 C03C17/23 C03C17/245 C03C17/25 C03C17/34D2 C03C17/34D4B C03C17/34D4K C03C17/34D4M C03C17/36 C03C17/36B310 C03C17/36B316 C03C17/36B318 C03C17/36B320 C03C17/36B332 C03C17/36B339 C03C17/36B342 C03C17/36B346 C03C17/36B350 C03C17/36B352 C03C17/36B356 C03C17/38 C03C17/42 C23C14/08 C23C14/10 C23C14/34B C23C14/34B2 G02B1/10 G02B1/10B G02B1/11D2 G02B1/11D2M G11B5/72 H01J37/34B H01J37/34O2H H01J37/34O4 H01J37/34U2 M03C217/213 M03C217/229 M03C217/230 M03C217/242 M03C217/732 M03C217/780 M03C218/110 M03C218/150 M03C218/154 S02F1/13335A T01J237/36C46D T01J237/36C52 Y02T10/88

US: 204/192.15 204/192.16 204/192.2 204/192.23 204/192.26 204/298.12 204/298.13 204/298.21 204/298.22 427/130 427/167 427/419.2 428/212 428/34 428/418 428/426 428/427 428/428 428/432 428/433 428/446 428/450 428/451 428/457 428/461 428/469 428/472 428/689 428/694BP 428/694T 428/694TP 428/694TZ 428/697 428/698 428/699 428/701 428/702 428/704 428/834 428/900 501/154 501/49 501/50 501/51 501/67 52/785.1 52/788 G9B/5.28

Family:

Publication number	Publication date	Application number	Application date
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AU198946994 A1	19900628	AU19890046994	19891220
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PatBase - US5110637_A

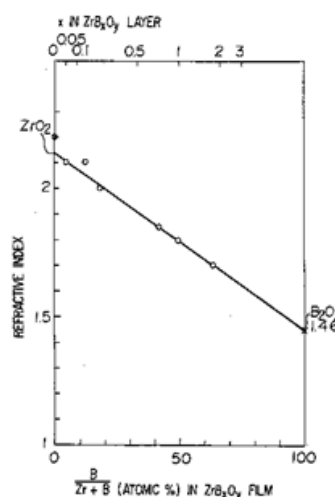
U.S. Patent

May 3, 1992

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FIGURE 1(a)



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Priority:

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US19920936281	19920828	US19890318330	19890303	US19910671801	19910422
WO1990JP00982	19900801				

Probable Assignee: ASAHI GLASS CO LTD

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Inventor(s): MITSUI AKIRA 1 1 KASHIWA CHO ASAHI KU KANAGAWA 241 ; OYAMA TAKUJI 350 38 HAZAWA CHO KANAGAWA KU KANAGAW ; SUZUKI KOICHI 4 6 502 WAKABADAI ASAHI KU ; SUZUKI KOICHI 4 6 502 WAKABADAI ASAHI KU KANAGAWA ; ANDO EIICHI 2617 120 IMAJUKU CHO ASAHI KU... ; SUZUKI SUSUMU KAWASAKI SHI KANAGAWA KEN JP ; SUZUKI KOICHI YOKOHAMA SHI KANAGAWA KEN JP ; OSADA KOICHI YOKOHAMA SHI KANAGAWA KEN JP ; HIRANO AKIRA YOKOHAMA SHI KANAGAWA KEN JP ; HAYASHI YASUO YOKOHAMA SHI KANAGAWA KEN JP ; EBISAWA JUNICHI OTA KU TOKYO JP ; ANDO EIICHI YOKOHAMA SHI KANAGAWA KEN JP ; SUZUKI SUSUMI KAWASAKI SHI KANAGAWA KEN JP ; OYAMA TAKUJI 350 38 HAZAWA CHO KANAGAWA KU... ; MITSUI AKIRA 1 1 KASHIWA CHO ASAHI KU KANAGAWA... ; MITSUI AKIRA 1 1 KASHIWA CHO ASAHI KU ; MATSUMOTO KYOSHI ; MATSUMOTO KIYOSHI TOKYO 113 JP ; EBISAWA JUNICHI TOKYO 145 JP ; ANDO EIICHI 2617 120 IMAJUKU CHO ASAHI KU KANAGAWA

Agent(s): DAVIES COLLISON CAVE; MARKS AND CLERK; SENMYO KENJI

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

Title: TRANSPARENT SUBSTRATE PROVIDED WITH A STACK OF LAYERS REFLECTING THERMAL RADIATION

Abstract: Source: US6503636B A stack of layers reflecting heat radiation for transparent substrates comprises at least one silver functional layer and, on both faces of the latter, antireflection layers formed by one or more **metal** compounds. The antireflection layer under the silver layer comprises an upper partial layer of zinc **oxide** contiguous to the silver layer, and an additional partial layer, under the zinc **oxide** layer, which is formed by aluminum nitride and is under internal tensile stresses. With the aid of the AlN layer under tensile stresses, it is possible to compensate the internal compressive stresses existing in the ZnO layer.

Classifications:

International (IPC 8-9): B32B17/10 C03C17/36 C23C14/06 C23C28/00 G02B1/10 G02B5/08 G02B5/20 G02B5/26

G02B5/28 (Advanced/Invention);

G02B5/20 (Advanced/Non-invention)

International (IPC 1-7): B32B9/00 C03C17/09 C03C17/245 C03C17/36 C23C C23C14/06 C23C14/20 C23C28/00 G02B1/10 G02B1/11 G02B5/08 G02B5/20 G02B5/26 G02B5/28

CPC: Y10T428/31507 Y10T428/31786 G02B5/0858 B32B17/10 B32B17/10174 B32B17/10761 C03C17/36 C03C17/3618 C03C17/3626 C03C17/3639 C03C17/3644 C03C17/3652 C03C17/3681 C03C2217/73 C23C14/0641 G02B5/208

European: B32B17/10 B32B17/10E10 B32B17/10G28 C03C17/36 C03C17/36B320 C03C17/36B332 C03C17/36B339

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US: 204/192.1 204/192.14 204/192.26 428/412 428/472 428/480 428/698 428/699 428/701

Family:

Publication number	Publication date	Application number	Application date
AT264513 E	20040415	AT19990937995T	19990302
BRPI9904874 A	20000919	BR1999PI04874	19990302
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Priority:

DE19981008795 19980303 DE19996016378 19990302 KR19997009384 19991012
 WO1999FR00466 19990302 WO1999FR00466 19990302

Probable Assignee: SAINT GOBAIN VITRAGE

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Inventor(s): (std): FISCHER KLAUS ; HANS ALFRED ; HUHN NORBERT ; MASSON PASCAL LE ; MAURER MARC ; LE MASSON PASCAL

Inventor(s): MARC MAURER ; ALFRED HANS ; NORBERT HUHN ; PASCAL LE MASSON ; KLAUS FISCHER

Designated states: AT BE BR CH CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL PL PT SE US

Title: Heat reflecting layered system for transparent substrates

Abstract: Bottom antireflection layer comprises at least one **metal oxide**, especially **TiO₂**, SnO₂, Ta₂O₅, ZnO and Nb₂O₅. Top antireflection layer comprises AlN and/or Si₃N₄. A 0.1-1 (preferably 0.2-0.5) nm thick **metal** or sub-nitride layer (preferably Ti, Zr, Al, Cr, Ni or Hf, or their mixtures, or their sub-nitrides) is located between the silver layer and the top antireflection layer, to promote adhesion. The system preferably includes two silver layers separated by a **dielectric** antireflection layer formed from a **metal oxide** corresponding to the bottom antireflection layer, and a 1-2 nm metallic blocking layer is applied below the **metal oxide** layer directly on the silver layer. The system of layers is preferably as follows: substrate - 25 to 35 nm **TiO₂** - 8 to 12 nm Ag - 1 to 2 nm Ti - 50 to 60 nm **TiO₂** - 8 to 12 nm Ag - 0.1-0.5 nm Ti - 35-45 nm AlN. Independent claims are given for: (a) a system of layers of a heat reflecting system for transparent substrates as above except that the bottom antireflection layer comprises **metal oxides** other than ZnO, such as **TiO₂**, SnO₂, ZnO, Ta₂O₅ or Nb₂O₅ and a top 5-15 nm thick ZnO part that is next to the silver layer; (b) a flexible polymeric film on at least one face of which is applied the system of layers cited above; and (c) laminated glass incorporating the polymer film cited in (b).

Classifications:

International (IPC 8-9): B32B17/10 B32B9/00 C03C17/34 C03C17/36 C03C27/12 G02B1/10 G02B1/11

G02B5/26 (Advanced/Invention);

G02B1/10 (Advanced/Non-invention);

B32B17/06 B32B9/00 C03C17/34 C03C17/36 C03C27/12 G02B1/10 G02B5/26 (Core/Invention)

International (IPC 1-7): B05D B32B15/04 B32B15/08 B32B9/00 C03C17/00 C03C17/34 C03C27/12 C23C14/06

G02B1/10 G02B1/11 G02B5/26

CPC: B32B17/10 B32B17/10174 B32B17/10761 C03C17/36 C03C17/3618 C03C17/3626 C03C17/3644 C03C17/3652

C03C17/366 C03C17/3681 C03C17/3639 C03C2217/73

European: B32B17/10 B32B17/10E10 B32B17/10G28 C03C17/36 C03C17/36B320 C03C17/36B332 C03C17/36B339

C03C17/36B342 C03C17/36B346 C03C17/36B352L C03C17/36B356 M03C217/730

Family:

Publication number	Publication date	Application number	Application date
BRPI9906165 A	20000905	BR1999PI06165	19991216
DE19858226 C1	20000615	DE19981058226	19981217
DE19858227 C1	20000615	DE19981058227	19981217
EP1010677 A1	20000621	EP19990403146	19991215
JP2000214304 A2	20000804	JP19990359926	19991217
KR20000048188 A	20000725	KR19990058340	19991216
PL337266 A1	20000619	PL19990337266	19991217
TH45875 A	20010622	TH19991004691	19991215

Priority:

DE19981058226 19981217 DE19981058227 19981217 DE19991039287 19990819

DE19991039288 19990819

Probable Assignee: SEKURIT SAINT GOBAIN DEUTSCH

Assignee(s): (std): SAINT GOBAIN VITRAGE ; SEKURIT SAINT GOBAIN DEUTSCH

Assignee(s): SEKURIT SAINT GOBAIN DEUTSCHLAND GMBH AND CO KG

Inventor(s): (std): BILLERT ULRICH ; FISCHER KLAUS ; FISHER KLAUS ; HANS ALFRED ; MASSON PASCAL LE ; MAURER MARC ; LE MASSON PASCAL

Inventor(s): LEMASSON PASCAL ; MARC MAURER ; ALFRED HANS ; PASCAL LE MASSON ; ULRICH BILLERT ; KLAUS FISCHER

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

Title: METHOD OF MAKING COATED ARTICLE HAVING IR REFLECTING LAYER WITH PREDETERMINED TARGET-SUBSTRATE DISTANCE

Abstract: Source: US2006081457A A coated article is provided, where a coating is supported by a substrate. The coating may include at least one infrared (IR) reflecting layer of or including Ag, Au or the like. The IR reflecting layer(s) may be sandwiched between first and second **dielectric** layers in certain example embodiments of this invention. It has been found that properties of the IR reflecting layer can be improved by reducing the distance between the substrate and the sputtering target(s) used in forming the IR reflecting layer(s).

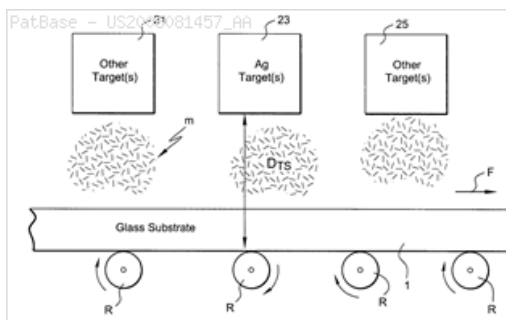
Classifications:

International (IPC 8-9): B05D5/06 B32B15/00 B32B15/04 B32B17/06 B32B37/18 C03C17/00 C03C17/09 C03C17/36 C23C14/00 C23C14/18 C23C14/32 C23C14/34 C23C14/35 E06B3/67 (Advanced/Invention); B05D5/06 B32B15/00 B32B15/04 B32B17/06 C03C17/06 C03C17/36 C23C14/00 C23C14/18 C23C14/32 C23C14/34 C23C14/35 (Core/Invention)

CPC: C23C28/322 C23C28/34 C23C28/345 C23C28/345 C23C28/36 C23C14/185 C03C2218/154 C23C14/165 C23C14/34 C03C17/36 C03C17/3626 C03C17/3644 C03C17/3652 C03C17/366 C03C17/3681 C03C17/3694 C03C2217/78 C03C17/3668 C03C17/3649 C03C17/3639 B32B37/18 B32B17/06 C03C2217/70 B32B2255/26 B32B2255/205 B32B2307/204 B32B2307/416 B32B2315/08 B32B2551/00 C03C17/3618 C23C14/18 C03C17/3657 E06B3/6715

European: C03C17/36 C03C17/36B320 C03C17/36B332 C03C17/36B342 C03C17/36B346 C03C17/36B352L C03C17/36B356 C03C17/36B374 C23C14/16B C23C14/18B C23C14/34 C23C28/00 M03C217/780 M03C218/154

US: 1/1 156/109 204/192.1 204/192.100P 204/192.15 204/192.150S 204/192.17 204/192.22 204/192.26 204/192.27 204/192.270S 204/192.28 427/160 427/165 427/165P 428/428 428/432 428/432P 428/432S 428/433 428/433S 428/434 428/434P 428/469 428/469S 428/698 428/699 428/701 428/702 428/702S 428/704



Family:

Publication number	Publication date	Application number	Application date
CA2584983 AA	20070420	CA20052584983	20051024
CA2584983 C	20100810	CA20052584983	20051024
CA2593023 AA	20070629	CA20062593023	20060109
CA2593023 C	20110322	CA20062593023	20060109
DE602005049029 D1	20160525	DE200560049029T	20051024
EP1812617 A2	20070801	EP20050801949	20050929
EP1812617 A4	20120822	EP20050801949	20050929
EP1819643 A2	20070822	EP20050851245	20051024
EP1819643 B1	20160413	EP20050851245	20051024
EP1848671 A1	20071031	EP20060717711	20060109
EP3023246 A1	20160525	EP20150200059	20051024
ES2588162 T3	20161031	ES20050851245T	20051024
US2006081457 AA	20060420	US20040981745	20041105
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US2006099428 AA	20060511	US20050029025	20050105
US2008220160 AA	20080911	US20080153057	20080513
US2015322709 AA	20151112	US20150801869	20150717
US2016297710 AA	20161013	US20160148015	20160506
US7267748 BB	20070911	US20040981745	20041105
US7291251 BB	20071106	US20050036187	20050118
US7390572 BB	20080624	US20050029025	20050105
US9090504 BB	20150728	US20080153057	20080513
US9371684 BB	20160621	US20150801869	20150717
WO06044166 A2	20060427	WO2005US35254	20050929
WO06044166 A3	20061019	WO2005US35254	20050929
WO06057750 A2	20060601	WO2005US38314	20051024
WO06057750 A3	20061019	WO2005US38314	20051024
WO06078479 A1	20060727	WO2006US00545	20060109

Priority:

EP20050851245	20051024	US20040619687P	20041019	US20040625164P	20041105
US20080153057	20080513	US20040625164P	20041105	US20050029025	20050105
US20050029025	20050105	US20050036187	20050118	US20040981745	20041105
WO2005US38314	20051024	WO2006US00545	20060109	WO2005US35254	20050929
US20150801869	20150717	US20160148015	20160506		

Probable Assignee: CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE

Assignee(s): (std): BLACKER RICHARD ; BOBROWSKI SEBASTIAN ; BUTZ JOCHEN ; C R V C ; CERAMIQUE S A C R V C CT LUXEM ; DIETRICH ANTON ; GRAND DUCHE DE LUXEMBOURG AND G ; KRILTZ UWE ; GUARDIAN INDUSTRIES ; CT LUXEMBOURGEOIS RECH VERRE ; GUARDIAN IND ; GUARDIAN EUROPE S A R L ; SWIEK ARTUR ; MULLER JENS PETER ; LEMMER JEAN MARC ; MUELLER JENS PETER

Assignee(s): GRAND DUCHE DE LUXEMBOURG AND GUARDIAN INDUSTRIES CORP ; ET LA CERAMIQUE S A C R V C CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ; ET LA CERAMIQUE SA CRVC CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ET LA CERAMIQUE SA ; CENTRE LUXEMBOURGEOIS RECHERCHES POUR LE VERRE ET LA CERAMIQUE (CRVC) SA ; CENTRE LUXEMBOURGEOIS RECHERCHES POUR LE VERRE ET LA CERAMIQUE CRVC SA ; ET LA CERAMIQUE CRVC CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE SA ; GUARDIAN IND CORP AUBURN HILLS ; GUARDIAN EUROPE SARL ; CRVC ; CENTRE LUXEMBOURGEOIS RECHERCHES POUR LE VERRE ET ; GRAND DUCHE DE LUXEMBOURG AND GUARDIAN INDUSTRIES C ; GUARDIAN INDUSTRIES CORP ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ET LA CERAMIQUE S A C R ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ET LA CERAMIQUE S A C R V C ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ET LA CERAMIQUE CRVC SA ; CENTRE LUXEMBOURGEOIS DE

RECHERCHES POUR LE VERREET LA CERAMIQUE S A C R V C DUDELANGE GRAND ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERREET LA CERAMIQUE S A ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ET LA CERAMIQUE SA ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERREET LA CERAMIQUE CRVC SA ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ET LA CERAMIQUE (CRVC) SA ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ET LA CERAMIQUE CRVC DUDELANGE GRAND SA ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERREET LA CERAMIQUE CRVC DUDELANGE GRAND SA ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ET AL CERAMIQUE (CRVC) SA ; CENTRE LUXEMBOURGEOIS DE RECHERCHES POUR LE VERRE ET AL CERAMIQUE CRVC SA ; GUARDIAN IND CORP ; GRAND DUCHE DE LUXEMBORG AND GUARDIAN IND CORP ; ET LA CERAMIQUE CENTRE LUXEMBOURGEOIS DE RECHERCHE

Inventor(s): (std): BOBROWSKI SEBASTIAN ; KRILTZ UWE ; LEMMER JEAN MARC ; MULLER JENS PETER ; SIWEK ARTUR ; MUELLER JENS PETER ; DIETRICH ANTON ; BUTZ JOCHEN ; BLACKER RICHARD

Inventor(s): BLACKER RICHARD FARMINGTON HILLS

Agent(s): MACPHERSON LESLIE AND TYERMAN LLP; MLT AIKINS LLP; MARKS AND CLERK LUXEMBOURG LLP; HESS PETER K G; RIZZO SERGIO; NIXON AND VANDERHYE PC

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

Title: SUBSTRATE PROCESSING METHOD

Abstract: Source: US2009011194A Method for the treatment of at least one surface portion of at least one layer A located between a substrate and a layer B of a thin-film multilayer, the layers of which are vacuum-deposited on the substrate having a glass function, according to the invention, is characterized in that: at least one thin layer A is deposited on a surface portion of said substrate, this deposition phase being carried out by a vacuum deposition process; using at least one linear ion source, a plasma of ionized species is generated from a gas or from a gas mixture; at least one surface portion of the layer A is subjected to said plasma so that said ionized species at least partly modifies the surface state of the layer A; and at least one layer B is deposited on a surface portion of the layer A, this deposition phase being carried out by a vacuum deposition process.

Classifications:

International (IPC 8-9): B32B15/04 C03C17/34 C03C17/36 C03C17/38 C03C21/00 C03C23/00 C23C14/00 C23C14/06 C23C14/22 C23C16/513 (Advanced/Invention); C03C17/34 C03C17/36 C03C17/38 C03C23/00 (Advanced/Non-invention); B32B15/04 C03C17/34 C03C17/36 C03C21/00 C03C23/00 C23C14/00 C23C14/06 C23C14/22 C23C16/50 (Core/Invention)

International (IPC 1-7): C03C23/00

CPC: Y10T428/24628 C03C17/3417 C03C17/3435 C03C17/36 C03C17/3613 C03C17/3618 C03C17/3626 C03C17/3639 C03C17/3644 C03C17/3652 C03C17/366 C03C17/3681 C03C23/006 C03C2217/71 C03C2218/153 C03C2218/32 C03C23/00 C03C17/34 C03C17/38

European: C03C17/34D2 C03C17/34D4B C03C17/36 C03C17/36B316 C03C17/36B320 C03C17/36B332 C03C17/36B339 C03C17/36B342 C03C17/36B346 C03C17/36B352L C03C17/36B356 C03C23/00B22 M03C217/710 M03C218/153 M03C218/320

US: 204/192.11 204/192.110S 427/569 427/569S 428/174 428/174P 428/434 428/434S 428/450 428/450S 428/472 428/472S

Family:

Publication number	Publication date	Application number	Application date
CN101296876 A	20081029	CN200680040014	20061023
CN101296876 B	20120523	CN200680040014	20061023
EP1943197 A2	20080716	EP20060831277	20061023
EP1943197 B1	20170329	EP20060831277	20061023
FR2892409 A1	20070427	FR20050053243	20051025
FR2892409 B1	20071214	FR20050053243	20051025
IN01473KN2008 A	20090102	IN2008KN01473	20080411
JP2009513828 T2	20090402	JP20080537154T	20061023
JP5221364 B2	20130626	JP20080537154T	20061023
KR20080059248 A	20080626	KR20087009737	20061023
RU2008120706 A	20091210	RU20080120706	20061023
RU2410341 C2	20110127	RU20080120706	20061023
TR201709234 T4	20170721	TR20170009234T	20061023
US2009011194 AA	20090108	US20060090907	20061023
WO07048963 A2	20070503	WO2006FR51082	20061023
WO07048963 A3	20070614	WO2006FR51082	20061023

Priority:

EP20060831277 20061023 FR20050053243 20051025 WO2006FR51082 20061023

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s): (std): LOERGEN MARCUS ; NADAUD NICOLAS ; ROCHE STEPHANIE ; SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; SCHMIDT UWE ; SEHN GOBEHN GLASS FRANS ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE SOC ANONYME ; SAINT GOBAIN GLASS FRANCE SOCIETE ANONYME

Inventor(s): (std): LERGEN MARKUS ; LOERGEN MARCUS ; MARCUS LOERGEN ; NADAUD NICOLAS ; NADO NIKOLJA ; NICOLAS NADAUD ; ROCHE STEPHANIE ; ROSH STEFANI ; SCHMIDT UWE ; SHMIDT UVE ; STEPHANIE ROCHE ; UWE SCHMIDT

Agent(s): COLOMBIER CHRISTIAN; SAINT GOBAIN RECHERCHE; FULYA SUEMERALP; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT 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 GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FILM-COATED GLAZING

Abstract: Source: US2011008641A The present invention relates to essentially transparent glazings comprising a system of films deposited under vacuum by magnetron, and having antisen and/or low-emission properties, comprising as protective surface layer a layer based on titanium **oxide** and on at least one other **metal oxide** of high hardness from the group comprising: ZrO₂, SiO₂, Cr₂O₃. The glazings according to the invention are of a nature to withstand a heat treatment at 550 degrees centigrade for 5 minutes without giving rise to the presence of optical effects, especially of coloration or iridescence. These glazings are termed toughenable.

Classifications:

International (IPC 8-9): B32B15/04 B32B17/06 B32B18/00

C03C17/23 C03C17/36 C23C14/34 (Advanced/Invention);

B60J1/00 (Advanced/Non-invention);

C03C17/23 C03C17/36 (Core/Invention)

CPC: C03C17/3605 C03C17/361 C03C17/3613 C03C17/3615

C03C17/36 C03C17/3618 C03C17/3626 C03C17/3634 C03C17/3639

C03C17/3644 C03C17/3652 C03C17/366 C03C17/3681

C03C2217/212 C03C2217/213 C03C2217/219 C03C2217/22

C03C2217/23 C03C2217/78 C03C2218/156 C03C2218/355

Y10T428/12056 Y10T428/12549 Y10T428/24975 Y10T428/265

Y10T428/30 Y10T428/31678

European: C03C17/36 C03C17/36B320 C03C17/36B332

C03C17/36B336 C03C17/36B339 C03C17/36B342 C03C17/36B346

C03C17/36B352L C03C17/36B356 M03C217/212 M03C217/213

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M03C218/156 M03C218/355

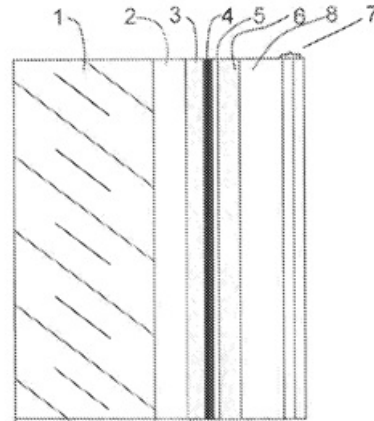
US: 204/192.16 204/192.160S 428/216 428/216S 428/336 428/336S

428/408 428/408S 428/426 428/426S 428/432 428/433 428/433S

428/434 428/457 428/457S 428/469 428/472 428/472S 428/552

428/552P 428/623 428/623S 428/697 428/697S 428/698 428/698S

PatBase - US2011008641_AA



Family:

Publication number	Publication date	Application number	Application date
CN101980985 A	20110223	CN200980110010	20090320
EA020277 B1	20141030	EA20100001514	20090320
EA201001514 A1	20110630	EA20100001514	20090320
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JP2011515313 T2	20110519	JP20110500234T	20090320
JP5603321 B2	20141008	JP20110500234T	20090320
US2011008641 AA	20110113	US20090933511	20090320
US8617716 BB	20131231	US20090933511	20090320
WO09115596 A1	20090924	WO2009EP53291	20090320

Priority:

EP20080102817 20080320 EP20090722103 20090320 WO2009EP53291 20090320

Probable Assignee: AGC GLASS EUROPE

Assignee(s): (std): AGC FLAT GLASS EUROPE ; AGC FLAT GLASS EUROPE SA ; AGC GLASS EUROPE ; DI STEFANO GAETAN

Assignee(s): AGC FLAT GLASS EUROPE

Inventor(s): (std): DI STEFANO GAETAN ; GAETAN DI STEFANO

Agent(s): LE VAGUERSE SYLVAIN JACQUES; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; LE VAGUERSE 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 CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW