

Search query (16): [SP]: [0043] the advantageous characteristics and details of the invention emerge from the following nonlimiting examples, illustrated using the appended figures, which illustrate:[0044] in fig. 1, a functional monolayer stack according to the invention, the functional layer being deposited directly on a blocking undercoating and directly under a blocking overcoating, the stack being illustrated during the treatment using a source producing radiation[0045] in fig. 2, a double glazing solution incorporating a functional monolayer stack and[0046] in fig. 3, the light absorption α , as percent, of the three series of examples 1', 440 and 5', as a function of the rate r of treatment, in meters per minute.

Results: 6

1) Family number: 43955070 (US2009274901A)

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Title: SOLAR CONTROL GLAZING

Abstract: The present invention relates to a sheet of vitreous material bearing a multilayer solar control lamination and also to a multiple glazing incorporating at least one such sheet of vitreous material bearing a solar control lamination. The multilayer solar control lamination comprises at least one functional layer based on a material that reflects infrared radiation surrounded by dielectric coatings and at least one 4 nm thick absorbent layer formed by at least one oxide or oxynitride of a cobalt- and/or copper-based alloy. The invention applies in particular to the formation of solar control glazing units.

Classifications:

International (IPC 8-9): B32B17/06 C03C17/23 C03C17/34 C03C17/36 (Advanced/Invention);

B32B17/06 C03C17/23 C03C17/34 C03C17/36 (Core/Invention)

CPC: C03C17/36 C03C17/3618 C03C17/3626 C03C17/3639 C03C17/3644 C03C17/3647 C03C17/3652 C03C17/366 Y10T428/265

European: C03C17/36 C03C17/36B320 C03C17/36B332 C03C17/36B339 C03C17/36B342 C03C17/36B343

C03C17/36B346 C03C17/36B352L

US: 428/336 428/426 428/432 428/433 428/434

Family:

Publication number	Publication date	Application number	Application date
BRPI0911918 A2	20151006	BR2009PI11918	20090422
CN102015565 A	20110413	CN200980115449	20090422
EP2276710 A1	20110126	EP20090738042	20090422
IN07009DN2010 A	20110909	IN2010DN07009	20101004
IN281184 B	20170317	IN2010DN07009	20101004
US2009274901 AA	20091105	US20090428708	20090423
US8900713 BB	20141202	US20090428708	20090423
WO09132998 A1	20091105	WO2009EP54778	20090422

Priority:

EP20080103794 20080430 EP20090738042 20090422 WO2009EP54778 20090422

Probable Assignee: AGC GLASS EUROPE

Assignee(s): (std): AGC FLAT GLASS EUROP S A ; AGC FLAT GLASS EUROPE SA ; AGC GLASS EUROPE ; ROQUINY PHILIPPE

Assignee(s): AGC FLAT GLASS EUROPE S A

Inventor(s): (std): ROQUINY PHILIPPE ; PHILIPPE ROQUINY

Agent(s): LE VAGUERSE SYLVAIN JACQUES; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; DECAMPS ALAIN

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

2) Family number: 30283601 (US2006099427A)

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Title: PRESTRESSABLE LAYER SYSTEM FOR PARTITION GLASS

Abstract: A low-emissivity multilayer system, capable of being bent and prestressed, for glazing panes, with silver as functional layer, comprises a sacrificial metal layer of Ti or an alloy of Ti and Zn and/or Al placed above the silver layer, antireflection dielectric layers and an oxide, nitride or oxynitride covering layer. The sacrificial metal layer contains chemically bonded hydrogen. An optionally Al- and/or In-doped ZnO layer is adjacent to the sacrificial metal layer. The covering layer consists of a titanium compound. Multilayer systems of this type can be manufactured relatively inexpensively and have a high hardness and a high chemical resistance. Their color parameters are very reproducible, even in the case of a heat treatment at high temperature.

Classifications:

International (IPC 8-9): B32B15/04 B32B17/06 C03C17/36 (Advanced/Invention);

C03C17/36 (Advanced/Non-invention);

B32B17/06 C03C17/36 (Core/Invention)

International (IPC 1-7): C03C17/09 C03C17/36 C23C14/06 C23C14/14

CPC: C03C17/3618 C03C17/3626 C03C17/3644 C03C17/3652 C03C17/366 C03C2217/78 C03C17/36

European: C03C17/36 C03C17/36B320 C03C17/36B332 C03C17/36B342 C03C17/36B346 C03C17/36B352L M03C217/780

US: 428/432 428/432P 428/469 428/469S 428/697 428/698 428/699 428/701 428/701S 428/702 428/704

Family:

Publication number	Publication date	Application number	Application date
AU2003274215 AA	20040223	AU20030274215	20030801
AU2003274215 AH	20040223	AU20030274215	20030801
CN1671632 A	20050921	CN20038018509	20030801
DE10235154 A1	20040212	DE20021035154	20020801
DE10235154 B4	20050105	DE20021035154	20020801

EP1527029 A2	20050504	EP20030758198	20030801
JP2006503724 T2	20060202	JP20040525509T	20030801
KR20050030966 A	20050331	KR20057001761	20030801
US2006099427 AA	20060511	US20050522619	20050823
US7074485 BB	20060711	US20050522619	20050823
WO04013059 A2	20040212	WO2003FR02451	20030801
WO04013059 A3	20040408	WO2003FR02451	20030801

Priority:

DE20021035154 20020801 WO2003FR02451 20030801

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s): (std): IHLO LARS ; SAINT GOBAIN ; SAINT GOBAIN GLASS DEUTSCHLAND ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN SA ; SCHICHT HEINZ ; SCHMIDT UWE ; SCHINDLER HERBERT

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Inventor(s): (std): HEINZ SCHICHT ; HERBERT SCHINDLER ; IHLO LARS ; LARS IHLO ; SCHICHT HEINZ ; SCHINDLER HERBERT ; SCHMIDT UWE ; UWE SCHMIDT

Agent(s): OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

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 LI 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

3) Family number: 56087624 (US2015247961A)

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Title: SUBSTRATE HAVING A MULTILAYER WITH THERMAL PROPERTIES AND AN ABSORBING LAYER

Abstract: The invention relates to a substrate (10) coated on one face (11) with a multilayer of thin films (14) with reflective properties in the infrared and/or in the solar radiation band comprising a single functional metal layer (140), in particular of silver or of a metal alloy containing silver, and two dielectric coatings (120, 160), said coatings each comprising at least one dielectric layer (122, 164), said functional layer (140) being disposed between the two dielectric coatings (120, 160), said multilayer furthermore comprising a single absorbing layer (19), characterized in that said absorbing layer (19) is a metal layer having a physical thickness in the range between 0.5 nm and 1.5 nm, or even between 0.6 nm and 1.2 nm and is situated directly on said face (11) and directly under a dielectric layer of nitride not comprising any oxygen.

Classifications:

International (IPC 8-9): C03C17/36 C03C27/06 E06B3/67 G02B5/08 G02B5/28 (Advanced/Invention)

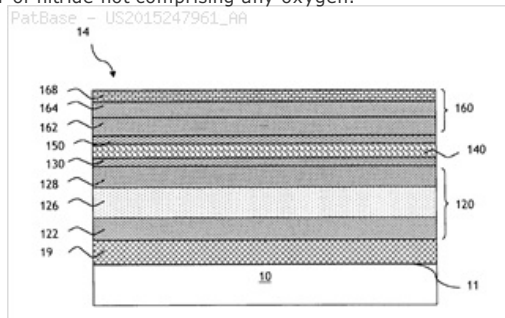
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CPC: G02B5/282 G02B5/085 Y02B80/22 C03C17/36 C03C17/361

C03C17/3626 C03C17/3644 C03C17/3652 C03C17/366

C03C17/3681

US: 359/360



Family:

Publication number	Publication date	Application number	Application date
BR112015004925 A2	20170704	BR20151104925	20130920
CA2883716 AA	20150226	CA20132883716	20130920
CN104619668 A	20150513	CN201380047792	20130920
CN104619668 B	20181109	CN201380047792	20130920
EA029163 B1	20180228	EA20150090612	20130920
EA201590612 A1	20150730	EA20150090612	20130920
EP2897918 A1	20150729	EP20130779271	20130920
FR2995888 A1	20140328	FR20120058867	20120921
FR2995888 B1	20161202	FR20120058867	20120921
ID201702502 A	20170317	ID2015P0002330	20130920
IN01730DN2015 A	20150529	IN2015DN01730	20150303
JP2015529188 T2	20151005	JP20150532484T	20130920
JP6320389 B2	20180509	JP20150532484T	20130920
KR20150058385 A	20150528	KR20157009811	20130920
MX2015003532 A1	20150714	MX20150003532	20130920
US2015247961 AA	20150903	US20130429892	20130920
US9977162 BB	20180522	US20130429892	20130920
WO14044984 A1	20140327	WO2013FR52175	20130920

Priority:

FR20120058867 20120921 WO2013FR52175 20130920

Probable Assignee: SAINT GOBAIN GLASS FRANCE

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

Assignee(s): SAINT GOBAIN GLASS FRANCE SA ; JRIBI RAMZI ; LORENZZI JEAN CARLOS

Inventor(s): (std): RAMZI JRIBI ; LORENZZI JEAN CARLOS ; JRIBI RAMZI ; JEAN CARLOS LORENZZI

Agent(s): GOUDREAU GAGE DUBUC ; LAVERY DE BILLY LLP ; JAMET VINCENT ; SAINT GOBAIN RECHERCHE ; IR MIGNI MYRIASANDRA SH MIP MSEL ; OBLON MCCLELLAND MAIER AND NEUSTADT LLP

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 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: SUBSTRATE PROVIDED WITH A STACK HAVING THERMAL PROPERTIES, HAVING A METALLIC TERMINAL LAYER AND HAVING AN OXIDIZED PRETERMINAL LAYER

Abstract: An substrate is coated on one face with a stack of thin layers including at least one metallic functional layer. The stack includes a terminal layer that is the layer of the stack furthest from the face, which comprises at least one metal M_2 that is a reducing agent in an oxide/metal pair exhibiting an oxidation/reduction potential γ_2 and the terminal layer is in the metallic state. The stack also includes a preterminal layer that is the layer of the stack located immediately under and in contact with the terminal layer in the direction of the face, which comprises at least one metal M_1 that is an oxidizing agent in an oxide/metal pair exhibiting an oxidation/reduction potential γ_1 and the preterminal layer is in the at least partially oxidized state. The oxidation/reduction potential γ_1 is greater than the oxidation/reduction potential γ_2 .

Classifications:

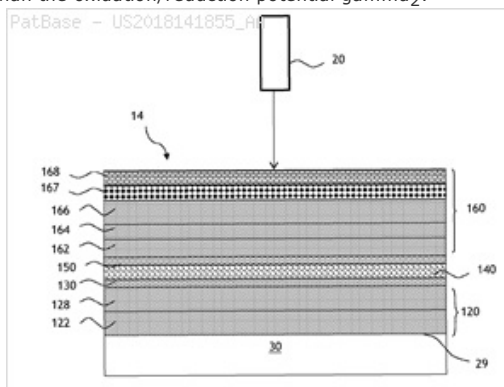
International (IPC 8-9): B32B15/04 C03C17/36 C03C23/00

E06B3/66 (Advanced/Invention)

CPC: C03C17/3626 C03C17/3644 C03C17/3649 C03C17/3652

C03C17/3681 C03C17/3689 C03C23/007 C03C17/3639

C03C17/3613 C03C17/366 C03C17/36



Family:

Publication number	Publication date	Application number	Application date
BR112017024097 A2	20180724	BR20171124097	20160526
CN107667077 A	20180206	CN201680031333	20160526
CO20170011292 A2	20180320	CO20170011292	20171102
EA201792607 A1	20180430	EA20170092607	20160526
EP3303242 A1	20180411	EP20160733634	20160526
FR3036701 A1	20161202	FR20150054852	20150529
FR3036701 B1	20170519	FR20150054852	20150529
IN201717039764 A	20171222	IN201717039764	20171108
JP2018519232 T2	20180719	JP20170562046T	20160526
KR20180014749 A	20180209	KR20177037199	20160526
MX2017015275 A1	20180219	MX20170015275	20160526
US2018141855 AA	20180524	US20160577025	20160526
WO16193577 A1	20161208	WO2016FR51238	20160526

Priority:

FR20150054852 20150529 WO2016FR51238 20160526

Probable Assignee: SAINT GOBAIN GLASS FRANCE

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

Inventor(s): (std): BENOIT GEORGES ; COHIN YANN ; GEORGES BENOIT ; MERCADIER NICOLAS ; NICOLAS MERCADIER ; YANN COHIN

Agent(s): MARGARITA CASTELLANOS ABONDANO; SAINT GOBAIN RECHERCHE; AOKI ATSUSHI

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: SOLAR CONTROL COATING WITH HIGH SOLAR HEAT GAIN COEFFICIENT

Abstract: A coating provides a high solar heat gain coefficient (SHGC) and a low overall heat transfer coefficient (U-value) to trap and retain solar heat. The coating and coated article are particularly useful for use in architectural transparencies in northern climates. The coating includes a first dielectric layer; a continuous metallic layer formed over at least a portion of the first dielectric layer, the metallic layer having a thickness less than 8 nm; a primer layer formed over at least a portion of the metallic layer; a second dielectric layer formed over at least a portion of the primer layer; and an overcoat formed over at least a portion of the second dielectric layer. When used on a No. 3 surface of a reference IGU, the coating provides a SHGC of greater than or equal to 0.6 and a U-value of less than or equal to 0.35.

Classifications:

International (IPC 8-9): B32B7/02 C03C17/36 C03C27/06

C03C27/10 C09D5/00 E06B3/66 G02B5/00 (Advanced/Invention)

CPC: Y10T428/2495 Y10T428/265 C03C17/3618 C03C17/3644

C03C17/3652 C03C17/366 C03C17/3681 C03C17/3689 C03C17/36

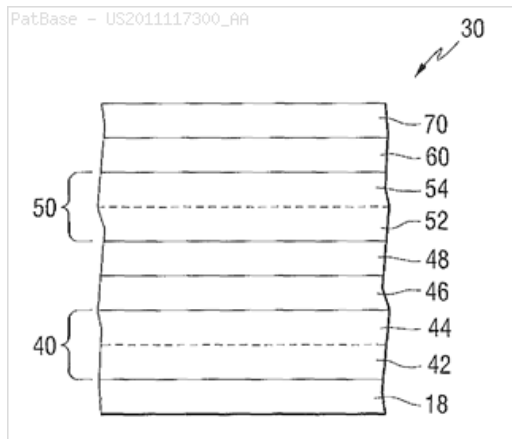
C03C17/3602 C03C17/3642 C03C27/06 C03C27/10 C03C2217/70

C03C2218/10 C03C2218/156 C03C2218/32

European: C03C17/36 C03C17/36B320 C03C17/36B342

C03C17/36B346 C03C17/36B352L C03C17/36B356 C03C17/36B370

US: 428/213 428/213S 428/336 428/336S 428/34 428/34P

**Family:**

Publication number	Publication date	Application number	Application date
■ CN102438961 A	20120502	CN201080016459	20100506
■ CN105859156 A	20160817	CN201610185887	20100506
■ EP2429965 A1	20120321	EP20100725923	20100506
■ JP2012524707 T2	20121018	JP20120507478T	20100506
■ JP5830011 B2	20151209	JP20120507478T	20100506
■ KR101397369 B1	20140522	KR20117029253	20100506
■ KR20120016129 A	20120222	KR20117029253	20100506
■ RU2011149789 A	20130620	RU20110149789	20100506
■ RU2502688 C2	20131227	RU20110149789	20100506
■ UA103676 C2	20131111	UA20110104399	20100506
■ UA103676 C2	20131111	UA20110014399	20100506
■ US2011117300 AA	20110519	US20100774751	20100506
■ WO10129730 A1	20101111	WO2010US33809	20100506

Priority:

US20090176534P 20090508 CN201080016459 20100506 US20100774751 20100506
 WO2010US33809 20100506

Probable Assignee: VITRO SAB DE CV

Assignee(s): (std): PPG IND OHIO INC ; PPG INDUSTRIES OHIO INC ; VITRO FLAT GLASS LLC ; VITRO SAB DE CV

Assignee(s): PPG INDUSTRIES OHIO INC ; VITRO FLAT GLASS LLC ; VITRO SAB DE CV

Inventor(s): (std): BUSH PAUL W ; WAGNER ANDREW V ; VAGNER EHNDJRJ V

Agent(s): POLYPATENT; ASAMURA PATENT OFFICE PC; IKEDA YUKIHIRO; ASAMURA KIYOSHI; ASAMURA HAJIME; SIMINERIO ANDREW C ET AL

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

6) Family number: 47842998 (US2012087005A)

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Title: THIN FILM DEPOSITION METHOD AND RESULTING PRODUCT

Abstract: A process for producing a substrate coated on a face with a low-E thin film multilayer, the process including: depositing a thin-film multilayer containing a thin silver film between at least two thin dielectric films and an absorbent film on a face a substrate; and heat treating the coated face with laser radiation between 500 and 2000 nm to reduce at least one selected from the group of the emissivity and the sheet resistance of the multilayer by at least 5 percent, wherein the absorbent film at least partially absorbs the laser radiation so that the absorption of the multilayer the wavelength of the laser radiation is such that the absorption of a clear glass substrate 4 mm in thickness coated with the multilayer at the wavelength of the laser radiation is greater than or equal to 10 percent.

Classifications:

International (IPC 8-9): B32B15/04 B32B17/06 B32B9/04 C03B27/00 C03C17/36 C03C23/00 C08J7/18
 G02B5/26 (Advanced/Invention);
 C03C17/00 (Core/Invention)

CPC: C03C17/36 C03C17/3613 C03C17/3626 C03C17/3639 C03C17/3644 C03C17/366 C03C17/3681 C03C23/0025
 C03C23/007 C03C23/00

European: C03C17/36 C03C17/36B316 C03C17/36B332 C03C17/36B339 C03C17/36B342 C03C17/36B352L
 C03C17/36B356 C03C23/00B8 C03C23/00D

US: 359/360 359/360P 427/554 427/554S

Family:

Publication number	Publication date	Application number	Application date
■ AU2010258455 AA	20101216	AU20100258455	20100611
■ AU2010258455 BB	20150305	AU20100258455	20100611
■ BRPI1013090 A2	20160405	BR2010PI13090	20100611
■ CA2762319 AA	20101216	CA20102762319	20100611
■ CA2762319 C	20171031	CA20102762319	20100611
■ CN102803174 A	20121128	CN201080025936	20100611
■ CN108545962 A	20180918	CN201810153647	20100611
■ DE202010018207 U1	20141231	DE201020018207U	20100611
■ DE202010018236 U1	20141224	DE201020018236U	20100611

EA022242 B1	20151130	EA20110071346	20100611
EA201171346 A1	20120530	EA20110071346	20100611
EG26585 A	20140317	EG20110112020	20111130
EP2440503 A1	20120418	EP20100737997	20100611
FR2946639 A1	20101217	FR20090053956	20090612
FR2946639 B1	20110715	FR20090053956	20090612
IN08635CN2011 A	20130517	IN2011CN08635	20111123
IN302646 B	20181109	IN2011CN08635	20111123
JP2012529419 T2	20121122	JP20120514521T	20100611
JP2014156395 A2	20140828	JP20140095289	20140502
JP2015157759 A2	20150903	JP20150094850	20150507
JP5964883 B2	20160803	JP20140095289	20140502
JP6272270 B2	20180131	JP20150094850	20150507
KR101710219 B1	20170224	KR20117029507	20100611
KR20120037386 A	20120419	KR20117029507	20100611
MX2011013250 A1	20120120	MX20110013250	20100611
MX346709 B	20170329	MX20110013250	20100611
US2012087005 AA	20120412	US20100376983	20100611
US9481603 BB	20161101	US20100376983	20100611
WO10142926 A1	20101216	WO2010FR51172	20100611

Priority:

FR20090053956 20090612 CN201080025936 20100611 WO2010FR51172 20100611
JP20120514521 20100611 JP20120514521T 20100611 JP20150094850 20150507

Probable Assignee: SAINT GOBAIN GLASS FRANCE

Assignee(s): (std): KHARCHENKO ANDRIY ; NADAUD NICOLAS ; REYMOND VINCENT ; SAINT GOBAIN ; SAINT GOBAIN GLASS FRANCE ; SAINT GOBAIN SA

Inventor(s): (std): KHARCHENKO ANDRIY ; NADAUD NICOLAS ; REYMOND VINCENT ; NICOLAS NADAUD ; VINCENT REYMOND ; ANDRIY KHARCHENKO

Agent(s): GRIFFITH HACK; GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP; TEYSSEDRE LAURENT; SAINT GOBAIN RECHERCHE; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; OBLON MCCLELLAND MAIER AND NEUSTADT LLP

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