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Title: LIGHTING DEVICE COMPRISING LIGHT-EMITTING DIODES

Abstract: The invention relates to a lighting device comprising: at least one **glass sheet** (1) having two opposing main faces (12), light-emitting diodes (3) providing the lighting function, and light-diffusing means (11') arranged on one of the first or second main faces, said diffusion means taking the form of an enamel having a brightness greater than 15 and preferably greater than or equal to 20 or 30.

Classifications:

International (IPC 8-9): B32B17/00 B32B17/10 F21K2/00 F21K9/00

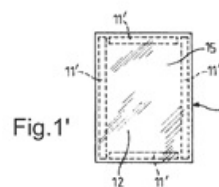
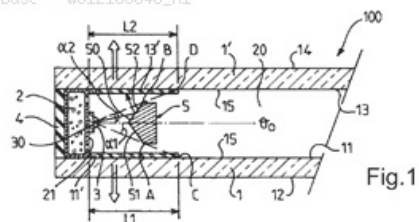
F21V3/04 F21V33/00 F21Y105/00 G02B6/00 (Advanced/Invention);

F21Y105/00 (Advanced/Non-invention)

CPC: G02B6/0051 G02B6/0073 F21V33/006 F21Y2105/00 G02B6/0096 F21K9/00

European: F21K9/00 F21V33/00B R21Y105/00

PatBase - WO12168646_A1



Family:

Publication number	Publication date	Application number	Application date
CN204076966 U	20150107	CN201290000589U	20120606
EP2718099 A1	20140416	EP20120731118	20120606
FR2976341 A1	20121214	FR20110055059	20110609
FR2976341 B1	20130531	FR20110055059	20110609
WO12168646 A1	20121213	WO2012FR51257	20120606

Priority:

FR20110055059 20110609 WO2012FR51257 20120606

Probable Assignee: SAINT GOBAIN SA

Assignee(s): (std): GIERENS ANNE ; MONTGERMONT AUDE ; SAINT GOBAIN ; ZHANG JINGWEI ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE

Inventor(s): (std): MONTGERMONT AUDE ; GIERENS ANNE ; ZHANG JINGWEI

Inventor(s): ANNE GIERENS ; AUDE MONTGERMONT ; JINGWEI ZHANG

Agent(s): RIBEAUDEAU MARION CHRISTINE; SAINT GOBAIN RECHERCHE; SAINT-GOBAIN RECHERCHE

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

Title: **INSULATING GLASS ELEMENT**, ESPECIALLY FOR A **REFRIGERATED** AREA

Abstract: The invention relates to an insulating glazed element comprising at least two **glass sheets**, separated from each other by a space and joined at their periphery by a seal, and at least one section. According to the invention, the glazed element has at least one heating border on at least one face of at least one **glass sheet**, and said border is covered by the section and joined to the section by means of a heat-conducting seal.

Classifications:

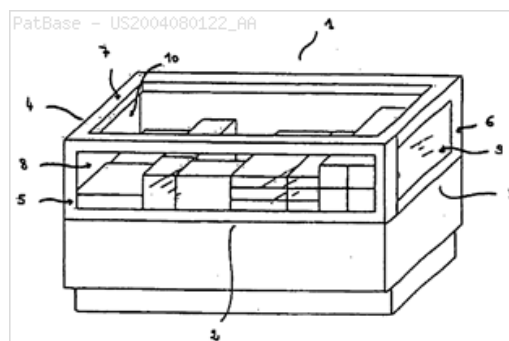
International (IPC 8-9): E06B7/00 H05B1/00 H05B11/00 H05B3/00 H05B3/06 H05B3/84 (Advanced/Invention); E06B7/00 H05B1/00 H05B11/00 H05B3/00 H05B3/06 H05B3/84 (Core/Invention)

International (IPC 1-7): A47F3/04 E04C2/34 E06B3/66 F16J15/46 F25D11/00 H05B3/84

CPC: H05B3/84

European: H05B3/84

US: 219/213 219/522 277/628 312/116 312/236 52/171.1 52/788.1



Family:

Publication number	Publication date	Application number	Application date
AT313931 E	20060115	AT20020714266T	20020227
DE60208160 D1	20060126	DE20026008160T	20020227
DE60208160 T2	20060824	DE20026008160T	20020227
DK1364557 T3	20060410	DK20020714266T	20020227
EP1364557 A1	20031126	EP20020714266	20020227
EP1364557 B1	20051221	EP20020714266	20020227
ES2254660 T3	20060616	ES20020714266T	20020227
FR2821519 A1	20020830	FR20010002708	20010228
FR2821519 B1	20030502	FR20010002708	20010228
US2004080122 AA	20040429	US20030469133	20030827
US7246470 BB	20070724	US20030469133	20030827
WO02069673 A1	20020906	WO2002FR00708	20020227

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FR20010002708 20010228 WO2002FR00708 20020227

Probable Assignee: SAINT GOBAIN SA

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

Assignee(s): SAINT GOBAIN GLASS FRANCE COURBEVOIE

Inventor(s): (std): BEYRLE ANDRE

Inventor(s): ANDRE BEYRLE

Agent(s): SAINT GOBAIN RECHERCHE

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

Title: ILLUMINATING MULTIPLE GLAZING INCLUDING LIGHT-EMITTING DIODES

Abstract: The present invention relates to illuminating multiple glazing including light-emitting diodes and comprising: a first sheet of glass (1), a second sheet of glass (1'), and a first group of light-emitting diodes (2, 2a, 2b) for direct lighting via the first **glass sheet** (1) in a first illuminating strip (40) with first diffusing means. The beam emitted by each diode of the first group is divergent and defined by a mid-height half-angle α of at least 30 degrees. The distance H1 between the diodes and the first diffusing means is at least 5 mm. The glazing comprises a first diode profile (3) including a first base (30) bearing diodes (2, 2a, 2b) and a first elongate lateral flange (31) that is at an angle to the first face so as to receive first rays, known as lateral rays (R1), from the first group of diodes at angles greater than or equal to the mid-height half-angle α and to return said rays onto the first diffusing means. The multiple glazing further comprises a first dark zone (60) associated with the first sheet of glass, said first dark zone being adjacent to the first illuminating strip (40) and offset from the surface of the first **glass sheet** opposite the front face of the first base (30).

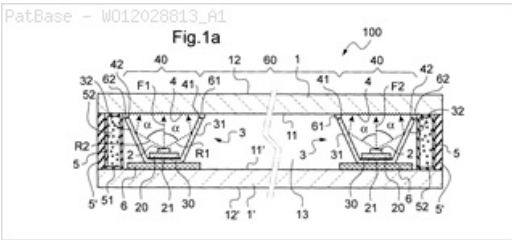
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F21V33/00 (Advanced/Invention)

CPC: E06B3/6604 E06B3/66376

European: E06B3/663B2



Family:

Publication number	Publication date	Application number	Application date
CN203547414 U	20140416	CN201190000837U	20110830
FR2964138 A1	20120302	FR20100056940	20100901
FR2964138 B1	20120824	FR20100056940	20100901
TW201229377 A	20120716	TW20110131271	20110831
TWI557306 B	20161111	TW20110131271	20110831
WO12028813 A1	20120308	WO2011FR51979	20110830

Priority:

FR20100056940 20100901 WO2011FR51979 20110830

Probable Assignee: SAINT GOBAIN SA

Assignee(s): (std): DELHORME DAVID ; MONTGERMONT AUDE ; SAINT GOBAIN ; SAINT GOBAIN SA ; ZHANG JINGWEI

Assignee(s): SAINT GOBAIN GLASS FRANCE

Inventor(s): (std): MONTGERMONT AUDE ; DELHORME DAVID ; ZHANG JINGWEI

Inventor(s): AUDE MONTGERMONT ; DAVID DELHORME ; JINGWEI ZHANG

Agent(s): SAINT GOBAIN RECHERCHE

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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU 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: **GLASS ELEMENT** FOR A CABINET HAVING A **REFRIGERATED** CHAMBER

Abstract: The invention relates to a **glass element** (200) including at least one **insulating glass** panel including at least one first (10) and one second (11) **glass sheet** combined with one another via a spacer (12) which keeps same spaced apart from one another, said spacer extending along the side, upper and lower edges of said two **glass sheets** and between said at least two **glass sheets**, at least one inner space (15) including a layer of an insulating gas and closed by a first (13) and a second (14) peripheral seal arranged around said inner space, and at least one frame (201) which supports said at least one **insulating glass** panel, said frame including (i) a stationary bracket (21) and (ii) a movable bracket (22) which is hinged on the stationary bracket and which allows the opening and/or the closing of the **glass element**. Such a **glass element** includes a spacer (12), the first (13) and the second (14) peripheral seal extending along at least one of the side edges of said at least two **glass sheets** are formed from a transparent resin, and said movable bracket is devoid of at least one side crosspiece.

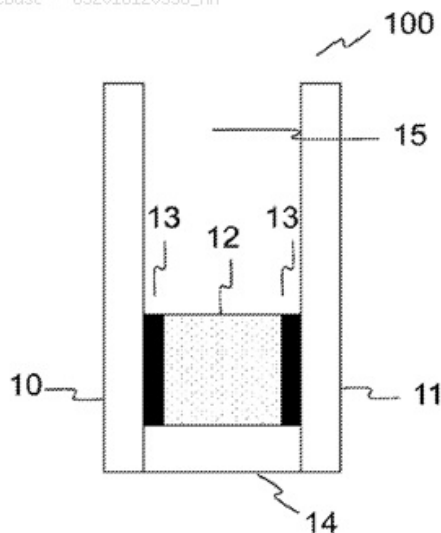
Classifications:

International (IPC 8-9): A47F3/00 A47F3/04 C03C27/06 E04B1/68
E06B3/00 E06B3/02 E06B3/48 E06B3/54 E06B3/66 E06B3/663 E06B3/677
E06B5/00 E06B7/16 F25D23/02 (Advanced/Invention);
F25D23/02 (Advanced/Non-invention)

CPC: E06B3/677 E06B3/5409 E06B3/663 E04B1/6801 E06B7/16
A47F3/005 A47F3/043 A47F3/0434 E06B3/025 E06B3/481

US: 312/116 312/138.1 52/171.3

PatBase - US2016120336_HA



Family:

Publication number	Publication date	Application number	Application date
BR112015031084 A2	20170725	BR20151131084	20140528
CN105283099 A	20160127	CN201480033476	20140528
DE112014002800 T5	20160310	DE201411002800T	20140528
DE202014010724 U1	20160707	DE201420010724U	20140528
DE202014010734 U1	20160811	DE201420010734U	20140528
DE602014036448 D1	20181213	DE201460036448T	20140528
EP3007594 A1	20160420	EP20140726989	20140528
EP3007594 B1	20181121	EP20140726989	20140528
ES2712743 T3	20190514	ES20140726989T	20140528
JP2016531063 T2	20161006	JP20160518908T	20140528
JP6491648 B2	20190327	JP20160518908T	20140528
PL3007594 T3	20190531	PL20140726989T	20140528
TR201902444 T4	20190321	TR20190002444T	20140528
US2016120336 AA	20160505	US20140898023	20140528
US9661940 BB	20170530	US20140898023	20140528
WO14198549 A1	20141218	WO2014EP61128	20140528

Priority:

BE20130000421 20130614 DE201411002800T 20140528 WO2014EP61128 20140528
EP20140726989 20140528

Probable Assignee: AGC GLASS EUROPE

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

Assignee(s): AGC GLASS EUROPE SA

Inventor(s): (std): BOUCHER NICOLAS ; SCHNEIDER PIERRE ; BOUESNARD OLIVIER ; OLIVIER BOUESNARD ; PIERRE SCHNEIDER ; NICOLAS BOUCHER

Agent(s): CHABOU SAMIA; LEHMANN MARIA ISABEL; TOLGA CAYLAK; 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 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