

Search history

Search 1: CPC=(E04B2/965) (Results 661)
Search 2: SFT=(curtain w1 wall) (Results 24682)
Search 3: 1 and 2 (Results 362)
Search 4: profile and 3 (Results 67)
Search 5: water and 4 (Results 25)
Search 6: PD<20160524 (Results 1000000)
Search 7: 5 and 6 (Results 17)

1) Family number: 59224054 (US2015135615A)

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Title: PERIMETER WALL

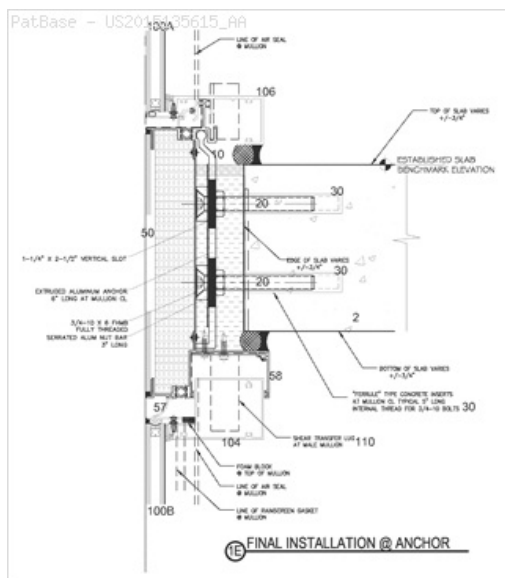
Abstract: An outer covering of a building includes anchor bolts configured to extend outwardly from an exterior side of floor support structures of the building, a plurality of anchor plates that adjustably mount to the plurality of anchor bolts, and a plurality of spandrel units that mount to an exterior side of the plurality of anchor plates. Each of the plurality of spandrel units includes a first mounting structure that receives a first outer covering section from above and supports a dead weight and lateral load of the first outer covering section via a corresponding one of the plurality of anchor plates and associated anchor bolts, and a second mounting structure configured to rotationally receive a second outer covering section after dead weight of the second outer covering section is loaded on an adjacent spandrel unit located below that one of the plurality of spandrel units.

Classifications:

International (IPC 8-9): E04B1/36 E04B1/41 E04B2/00 E04B2/88 E04B2/90 E04B2/96 E06B1/18 E06B3/54 (Advanced/Invention)

CPC: E04B2/965 E04B1/36 E04B1/40 E04B2/885 E04C2/46 E06B3/5427 E06B1/18 E04B2103/02 E04B2103/04 E04B2103/06 E04B2/90

US: 1/1 52/235 52/745.1



Family:

Publication number	Publication date	Application number	Application date
CA2870259 AA	20150508	CA20142870259	20141107
CA2870259 C	20181023	CA20142870259	20141107
US2015135615 AA	20150521	US20140535168	20141106
US2017350117 AA	20171207	US20170629156	20170621
US10202763 BB	20190212	US20170629156	20170621

Priority:

US20130901745P 20131108 US20140535168 20141106 US20170629156 20170621

Probable Assignee: CUPPLES INT INC

Assignee(s): (std): CUPPLES INT INC

Assignee(s): HOGAN JERRY CLYDE ; MICHNO MICHEL FRANCOIS

Inventor(s): (std): HOGAN JERRY CLYDE ; MICHNO MICHEL FRANCOIS

Agent(s): MOFFAT AND CO; SHUMAKER AND SIEFFERT PA

2) Family number: 23062080 (US3246441A)

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Title: PANEL SUPPORT

Abstract: (Claim 1) 1. An elongated vertical unitary mullion for a panel support comprising symmetrical I beam having a web and a pair of flanges, a pair of longitudinal Ranges extending in opposite .parallel directions and normal to and from the distal ends of each of the flanges of the I beam, one of the longitudinal flanges of each pair of Ion.-itudinal. flanges opposing one of the longitudinal flanges of another pair of longitudinal flanges and having means for supporting an elongated strip of glazing material, and the other longitudinal flange of each pair of longitudinal flanges extending from the distal ends of one of the flanges of the I beam being spaced from each other at their ends to provide ready access to their inner opposed surfaces for the _purpose of securing said mullion to a horizontal panel support member.

Classifications:

International (ipc 8-9): E04B2/88 E04B2/96

E06B7/14 (Advanced/Invention);

E04B2/88 E06B7/14 (Core/Invention)

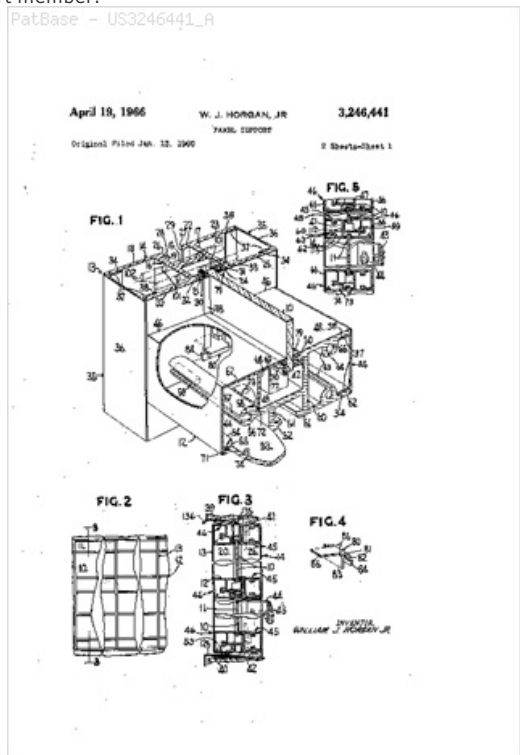
International (ipc 1-7): E04B2/88 E04F E06B3/08 E06B3/60

CPC: E04B2/88 E04B2/965 E06B7/14 E04B2/96

European: E04B2/88 E04B2/96 E04B2/96C E06B7/14

US: 52/204.591 52/204.7 52/209 52/235 52/455 52/476 52/656.1

52/656.2 52/730.4 52/731.5 52/731.9 52/775 52/781



Family:

Publication number	Publication date	Application number	Application date
BE599092 A	19610713	BE19610599092	19610113
FR1280197 A	19611229	FR19610849299	19610110
US3147518 A	19640908	US19600002284	19600113
US3246441 A	19660419	US19640380013	19640702

Priority:

US19600002284 19600113 FR19610849299 19610110 US19640380013 19640702

Probable Assignee: PITTSBURGH PLATE GLASS CO

Assignee(s): (std): PITTSBURGH PLATE GLASS CO

Assignee(s): PITTSBURGH PLATE GLASS COMPANY

Inventor(s): (std): HORGAN WILLIAM JOSEPH JR ; HORGAN JR WILLIAM J

Inventor(s): WILLIAM JOSEPH HORGAN JR ; JR WILLIAM J HORGAN

3) Family number: 3381082 (EP0340473A2)

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Title: CURTAIN WALL

Abstract: In the curtain wall consisting of glazing and/or panels fastened to mullions and transoms via pressed strips, inner seals being arranged between the inner face of the glazing or of the panel and the outer face of the mullions and transoms and outer seals being arranged between the outer face of the glazing or of the panel and the inner face of the pressed strips, the space enclosed by the mullions (18), the transoms (24, 88), the glazing or panels and the pressed strips (120) is designed as an unstressed space, and a water- and air-tight sealing plane is formed by the inner seals.

Classifications:

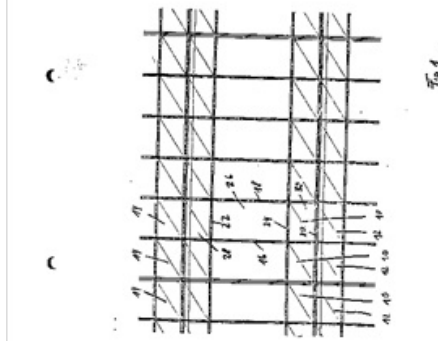
International (ipc 8-9): E04B2/96 (Advanced/Invention);

E04B2/88 (Core/Invention)

International (ipc 1-7): E04B1/66 E04B2/96 E04C2/54

CPC: E04B2/965

European: E04B2/96C

**Family:**

Publication number	Publication date	Application number	Application date
DE3823949 A1	19891116	DE19883823949	19880714
DE3823949 C2	19930805	DE19883823949	19880714
EP0340473 A2	19891108	EP19890106158	19890407
EP0340473 A3	19920527	EP19890106158	19890407
EP0340473 B1	19950405	EP19890106158	19890407
HK72796 A	19960503	HK19960000727	19960425

Priority:

DE19883815203 19880504 DE19883823949 19880714

Probable Assignee: GARTNER AND CO J**Assignee(s):** (std): GARTNER AND CO J ; SEF GARTNER AND CO**Assignee(s):** JOSEF GARTNER AND CO ; JOSEF GARTNER AND CO 8883 GUNDELFINGEN DE**Inventor(s):** (std): GARTNER FRITZ DR ING ; ING FRITZ GARTNER DR**Inventor(s):** GARTNER FRITZ DR ING 8883 GUNDELFINGEN DE ; FRITZ GARTNER DR ING**Designated states:** FR GB LU NL**4) Family number: 12613130** (FR2694953A)

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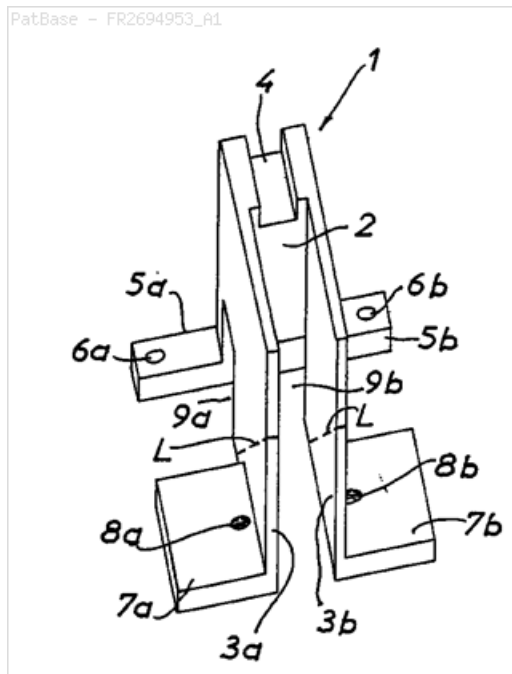
Title: Connection for mounting a cross-beam on a curtain wall stiffener - is in form of saddle having single hanger with base and two thin flanges which are parallel to each other, this connection being suitable for convex, concave or flat walls

Abstract: The connection is a hanger consisting of a comparatively thick base-plate (2) and two thin flanges (3a,3b) which are parallel to each other. The base-plate is extended to the exterior on either side by a plate (5a,5b) which is at right angles to the flanges (3a,3b). These plates can be fixed to the bottom of a groove in the stiffener and has members (6a,6b) for fixing them to this groove. The connector (1) can be fixed to the cross-beam using fixings (7a,7b). The connection can be coated with a layer of rubber or polyvinyl chloride to improve its water resistance. ADVANTAGE - Absorbs thermal expansion, increased rigidity of structure, suitable for concave, convex or flat walls.

Classifications:**International (IPC 8-9):** E04B2/96 (Advanced/Invention);

E04B2/88 (Core/Invention)

International (IPC 1-7): E04B2/96**CPC:** E04B2/965**European:** E04B2/96C

**Family:**

Publication number	Publication date	Application number	Application date
FR2694953 A1	19940225	FR19920010215	19920818
FR2694953 B1	19941118	FR19920010215	19920818

Priority:

FR19920010215 19920818

Probable Assignee: ALUVAR SA**Assignee(s):** (std): ALUVAR SA ; COSTA ALAIN**Inventor(s):** (std): ALAIN COSTA ; ALUVAR S A ; COSTA ALAIN**5) Family number: 60542137 (US2015284951A)**

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Title: CURTAIN WALL MULLIONS, TRANSOMS AND SYSTEMS

Abstract: A curtain wall mullion or transom including a component made of a thermally insulating material bonded to a metal structural segment such that a stem of the component extends into a pocket defined by panels of a curtain wall system. The component may be a reinforced fiberglass polymer component and bonded to the metal segment with an adhesive and may isolate the metal structure from the atmosphere outside the curtain wall and may include a seal receiver which abuts a panel of the curtain wall. The metal segment may be made of steel or aluminum or other metal. A pultrusion method is used to make the fiberglass component to have a profile configured to cover an entirety of an outside of the mullion or transom and to have a pair of receivers for receiving seals to abut against panels of the curtain wall.

Classifications:**International (IPC 8-9):** E04B2/88 E04B2/90 E04B2/96 E06B3/263

E06B3/54 (Advanced/Invention);

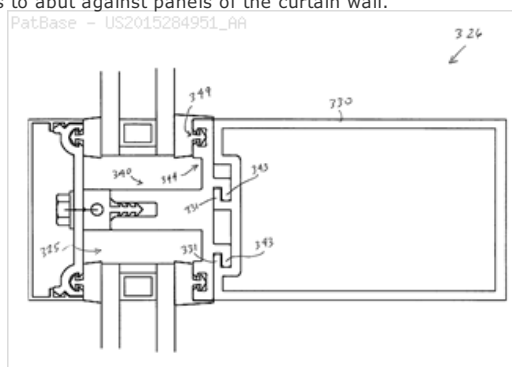
E06B3/54 E06B7/14 (Advanced/Non-invention)

CPC: E06B3/26343 E06B2007/145 E06B3/5427 E04B2/885

E04B2/967 E04B2/965 E04B2/90

US: 1/1 52/235

PatBase - US2015284951_AA

**Family:**

Publication number	Publication date	Application number	Application date
CA2950781 AA	20161207	CA20162950781	20161104
CA2950781 C	20170704	CA20162950781	20161104
CA2951502 AA	20161207	CA20152951502	20150625
CA2951502 C	20181204	CA20152951502	20150625
CA3059629 AA	20191009	CA20183059629	20180411
EP3314065 A1	20180502	EP20150812070	20150625
EP3314065 A4	20190220	EP20150812070	20150625
EP3371387 A1	20180912	EP20160863054	20161104
EP3371387 A4	20190626	EP20160863054	20161104
EP3610089 A1	20200219	EP20180783885	20180411
US2015284951 AA	20151008	US20140314636	20140625
US2016053487 AA	20160225	US20150932631	20151104
US2017298621 AA	20171019	US20170487624	20170414

US2019194939 AA	20190627	US20180182871	20181107
US9212482 BB	20151215	US20140314636	20140625
US9663946 BB	20170530	US20150932631	20151104
US10450743 BB	20191022	US20170487624	20170414
WO15200614 A1	20151230	WO2015US37659	20150625
WO17079578 A1	20170511	WO2016US60560	20161104
WO18191397 A1	20181018	WO2018US27139	20180411

Priority:

US20140943786P 20140224 US20140314636 20140625 WO2015US37659 20150625
US20150932631 20151104 WO2016US60560 20161104 US20170487624 20170414
WO2018US27139 20180411 US20180182871 20181107

Probable Assignee: STEELGLAZE INC

Assignee(s): (std): FREDERICK TODD ; FREMARQ INNOVATIONS INC ; STEELGLAZE INC

Inventor(s): (std): FREDERICK TODD

Agent(s): PNC IP GROUP PROFESSIONAL CORP; BAILEY RICHARD ALAN; ANTHONY J; BOURGET ANTHONY J

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 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

6) Family number: 3692155 (EP0149587A2)

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Title: SUPPORT PIECE FOR TRANSOMS OF A CURTAIN WALL STRUCTURE COMPOSED OF HOLLOW PROFILE MEMBERS.

Abstract: 1. Bar holder (1) for an outside wall structure made of sections, which can be fixed to a post (8) and over which the end of a bar (2) can be pushed, consisting of a fitting piece (3) with locating faces (17, 18) for the post (8) and for the bar (2), with two pins (4, 5) which engage in boreholes in the post (8), and with a securing element which engages in the post and is offset by 90 degrees relative to the two pins, characterized in that the securing element is a screw (6) with a conical end (7) which is guided in a threaded borehole (16) in the bar holder (1) and engages with its conical end in a groove (9) in the post, namely outside the centre of the groove (9) somewhat closer to the bar (2), in order to achieve a clamping effect between the bar holder (1) and post (8).

Classifications:

International (IPC 8-9): E04B2/88 E04B2/96 E06B3/96

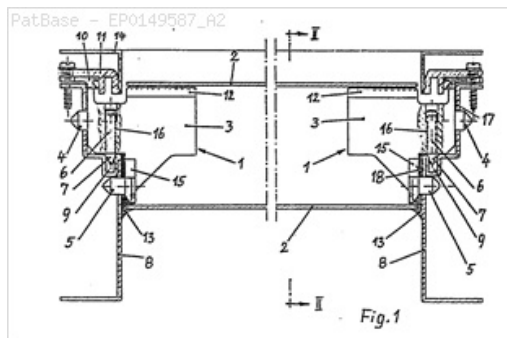
E06B3/964 (Advanced/Invention);

E04B2/88 E06B3/96 (Core/Invention)

International (IPC 1-7): E04B2/58 E04B2/88 E06B3/96

CPC: E04B2/965 E06B3/9642

European: E04B2/96C E06B3/964D



Family:

Publication number	Publication date	Application number	Application date
AT35835 E	19880815	AT19850730003T	19850115
DE3401936 A1	19850801	DE19843401936	19840117
DE3401936 C2	19861120	DE19843401936	19840117
DE3563862 D1	19880825	DE19853563862	19850115
EP0149587 A2	19850724	EP19850730003	19850115
EP0149587 A3	19850821	EP19850730003	19850115
EP0149587 B1	19880720	EP19850730003	19850115

Priority:

DE19843401936 19840117 DE19853563862 19850115 EP19850730003 19850115

Probable Assignee: MANNESMANN AG

Assignee(s): (std): MANNESMANN AG

Assignee(s): MANNESMANN AG 4000 DUESSELDORF DE ; MANNESMANN AKTIENGESELLSCHAFT ; MANNESMANN 4000 DUESSELDORF DE AG

Inventor(s): (std): STRATMANN HANS

Inventor(s): STRATMANN HANS 4760 WERL DE

Designated states: AT BE CH DE FR GB LI NL

7) Family number: 2813197 (GB9008761A)

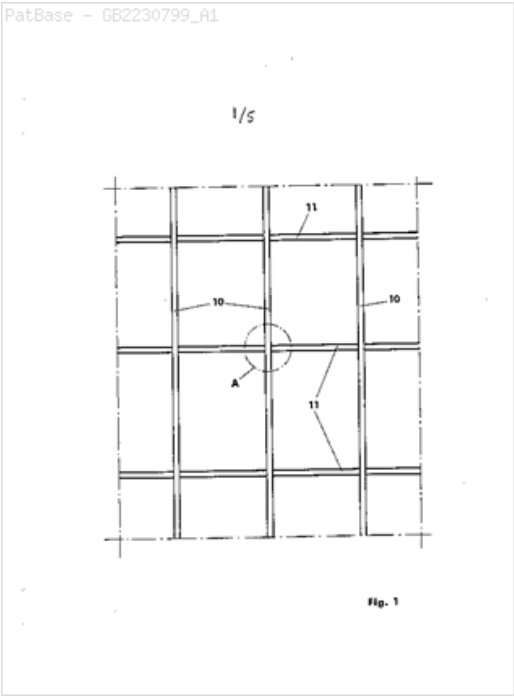
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Title: CURTAIN FACADE

Abstract: A curtain facade comprises an array of panels (12) held in bays defined by upright and transverse members comprising light metal e.g. aluminum profiles (13, 14, 21, 22). To improve the integrity of the construction in case of fire, sealing elements (16, 18, 23, 24) are mounted not on the aluminium profiles but on additional heat-resistant profile rails (17, 19, 25, 26) e.g. of steel or ceramics which together with an interconnected steel insert rail (15) extending down each upright member form an integrated network which can provide support to the panels (12) in the event of melting of the aluminium profiles.

Classifications:

International (ipc 8-9): E04B2/96 (Advanced/Invention);
E04B2/88 (Core/Invention)
International (ipc 1-7): E04B1/94 E04B2/96 E06B3/68 E06B3/96
CPC: E04B2/965
European: E04B2/96C



Family:

Publication number	Publication date	Application number	Application date
AT394069 B	19920127	AT19900000917	19900419
AT91790 A	19910715	AT19900000917	19900419
DE3912984 A1	19901031	DE19893912984	19890420
DE3912984 C2	19910508	DE19893912984	19890420
GB2230799 A1	19901031	GB19900008761	19900419
GB2230799 B2	19930414	GB19900008761	19900419
GB9008761 A0	19900613	GB19900008761	19900419

Priority:

DE19893912984 19890420

Probable Assignee: EDUARD HUECK METALLWALZ UND PR

Assignee(s): (std): EDUARD HUECK METALLWALZ UND PR ; HUECK E FA ; HUECK FA E

Assignee(s): HUECK EDUARD ; FA EDUARD HUECK METALLWALZ UND PRESSWERK 5880 LUEDENSCHIED DE ; EDUARD HUECK ; EDUARD HUECK METALLWALZ U PR

Inventor(s): (std): KIEPE GERHARD ; BLEI WERNER ; BISCHLIPP KLAUS

Inventor(s): KLAUS BISCHLIPP ; GERHARD KIEPE ; WERNER BLEI ; TEILNICHTNENNUNG DES ERFINDERS BEANTRAGT

8) Family number: 58064210 (US2016069073A)

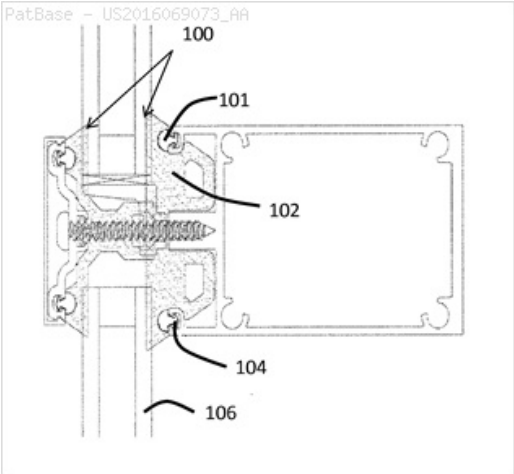
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Title: CURTAIN WALL ELEMENTS

Abstract: A curtain wall structure that can provide a continuous sealing plane through the use of a dual density gasket and that offers improved sealing and thermal insulation properties. The curtain wall structure also provides a structural reinforcement element assembly that is integrated into a mullion of the curtain wall structure to provide a better load bearing capacity. A curtain wall water drainage cross element assembly is also provided to prevent water from flowing vertically inside the curtain wall system. An expansion joint assembly is also provided and designed as two movable parts allowing provides a sound free vertical displacement of components by means of no direct metal to metal contact between sliding parts.

Classifications:

International (ipc 8-9): E04B1/68 E04B1/76 E04B1/78 E04B2/88 E04B2/96 E04C3/04 E06B7/14 (Advanced/Invention)
CPC: E04B2/965 E04B1/6801 E04B1/762 E04B1/78 E04B2/967 E04C2003/0439 E04C2003/0465 E06B7/14 E06B2007/145
US: 52/235



Family:

Publication number	Publication date	Application number	Application date
CA2863016 AA	20141209	CA20142863016	20140909
CA2863016 C	20160809	CA20142863016	20140909
US2016069073 AA	20160310	US20140529932	20141031
US9617733 BB	20170411	US20140529932	20141031

Priority:

CA20142863016 20140909

Probable Assignee: A AND D PREVOST INC

Assignee(s): (std): A AND D PREVOST INC

Assignee(s): A AND D PREVOST INC305, 12E AVENUERICHHELIEUQ1J3L 3T2CA ; GRISE JOCELYN ; GRISE JOCELYN305 - 12E AVENUERICHHELIEUQ1J3L 3T2CA ; LAURIN OLIVIER ; LAURIN OLIVIER305 - 12E AVENUERICHHELIEUQ1J3L 3T2CA

Inventor(s): (std): LAURIN OLIVIER ; GRISE JOCELYN

Inventor(s): GRISE JOCELYN305 - 12E AVENUERICHHELIEUQ1J3L 3T2CA ; LAURIN OLIVIER305 - 12E AVENUERICHHELIEUQ1J3L 3T2CA

Agent(s): ROBIC ; MARSHALL GERSTEIN AND BORUN LLP

9) Family number: 52404292 (US2014311067A)

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Title: SYSTEM FOR ASSEMBLING WIND BRACING ON A GLAZED WALL

Abstract: A wind bracing for a wall including an assembled collection of infill panels mounted on a bearing structure, the wind bracing including a glass panel and a mounting mechanism securing the glass panel to the wall. The mounting mechanism includes at least one mounting section piece with a shape that delimits a housing into which the glass panel is engaged and in which the housing is fixed by adhesive bonding. The mounting mechanism also includes adapting and fixing members for fixing the mounting section piece to an upright or to a cross member of the bearing structure.

Classifications:

International (IPC 8-9): E04B2/56 E04B2/74 E04B2/88

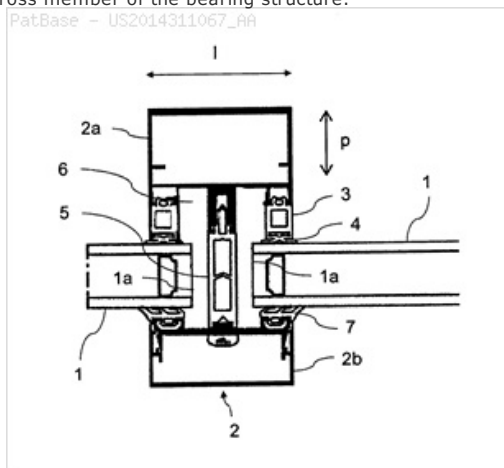
E04B2/96 (Advanced/Invention);

E06B3/54 (Advanced/Non-invention)

CPC: E04B2/7455 E04B2/965 E04B2/967 E04B2/96 E06B3/5454

European: E04B2/74C5B E04B2/96C E04B2/96D

US: 1/1 52/235



Family:

Publication number	Publication date	Application number	Application date
CN103781979 A	20140507	CN201280023100	20120509
EA201391687 A1	20140331	EA20130091687	20120509
EP2710198 A1	20140326	EP20120719388	20120509
JP2014517167 A2	20140717	JP20140510732	20120509
JP2014517167 T2	20140717	JP20140510732T	20120509
US2014311067 AA	20141023	US20120117289	20120509
US9315989 BB	20160419	US20120117289	20120509
WO12156240 A1	20121122	WO2012EP58491	20120509

Priority:

FR20110001451 20110513 WO2012EP58491 20120509

Probable Assignee: AGC FRANCE SAS

Assignee(s): (std): AGC FRANCE SAS ; CRIAUD ANNIE

Inventor(s): (std): CRIAUD ANNIE

Agent(s): CHABOU SAMIA; OBLON MCCLELLAND MAIER AND NEUSTADT LLP; VERBRUGGE VIVIEN

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 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 TT TN TR TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 51756521 (US2012210664A)

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Title: METHOD AND SYSTEM FOR IMPROVED CURTAIN WALL SEALING

Abstract: In one aspect, the present invention relates to a plug of the type utilized for sealing a junction between a horizontal member and a vertical mullion of a curtain wall. The plug may include a plug body. The plug body may include a front body portion, a rear body portion, a left body portion, a right body portion, a top surface disposed between the left body portion, the right body portion, the front body portion, and the rear body portion. A rabbit is disposed across the front

body portion. A spacer flange extends from the front body portion. A plurality of chamfers are disposed between the top surface and the left body portion, the right body portion, and the rear body portions. The plug is sized to occupy a gap formed in the junction between the horizontal member and the vertical mullion of the curtain wall. The rabbet and the plurality of chamfers form a plurality of large crevices between the plug, the horizontal member, and the vertical mullion. The large crevices allow penetration of a sealant therein.

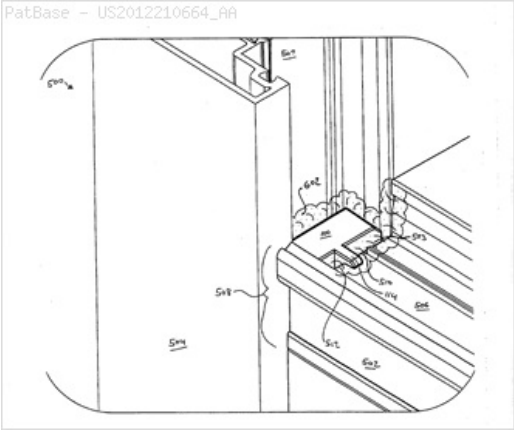
Classifications:

International (IPC 8-9): E04B1/66 E04B1/74 E04B2/88 E04B2/96 E06B7/16 (Advanced/Invention)

CPC: E04B2/965 E04B2/96 E04B2/88

European: E04B2/96C

US: 1/1 52/407.2 52/407.200P 52/741.4 52/741.400S



Family:

Publication number	Publication date	Application number	Application date
US2012210664 AA	20120823	US20120400940	20120221
US2016002919 AA	20160107	US20150856229	20150916
US9163400 BB	20151020	US20120400940	20120221
US9464432 BB	20161011	US20150856229	20150916

Priority:

US20110445935P 20110223 US20120400940 20120221 US20150856229 20150916

Probable Assignee: OLDCASTLE BUILDINGENVELOPE INC

Assignee(s): (std): CLARK PHIL ; HALL GREG A ; LANG WILLIAM J ; OLDCASTLE BUILDINGENVELOPE INC

Inventor(s): (std): LANG WILLIAM J ; CLARK PHIL ; HALL GREG A

Agent(s): WINSTEAD PC