

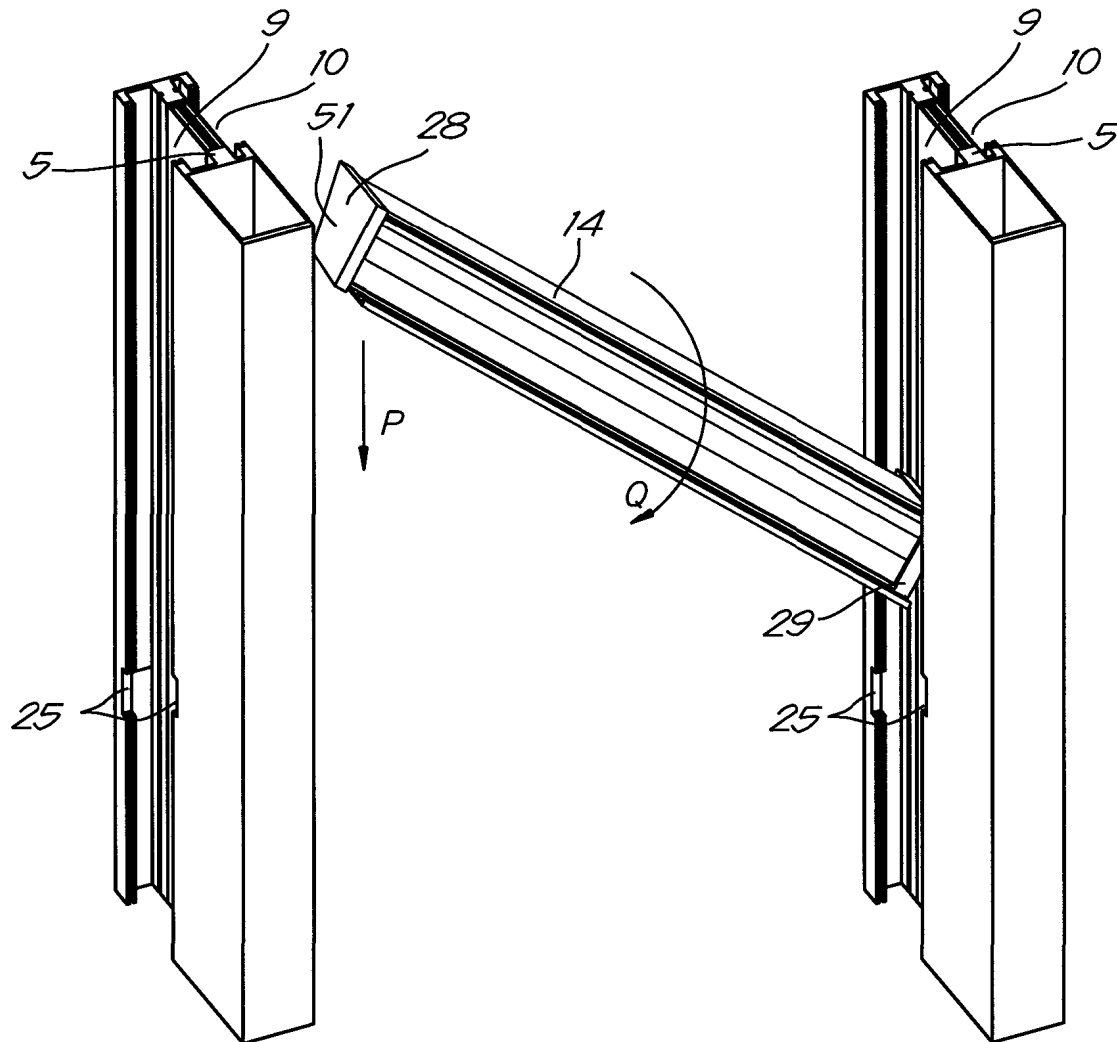
20 Documents

Publication numbers	Title	Current assignees
EP3464748 A1	Curtain wall and set and construction method for such a curtain wall	CLAEYS STEPHANIE CATHARINA R, ...
EP3314065 A1	Curtain wall mullions, transoms and systems	FREMARQ INNOVATIONS
WO201873801 A1	Wall element for a curtain wall with a compartment for a wing and a sealing element	STEPHANIE CATHERINE R KRAS, ...
EP3464747 A1	Curtain wall	STEPHANIE CATHARINA R CLAEYS, ...
WO201873800 A1	Curtain wall with a wall element with a frame with a compartment for a wing or the like and method for replacing an infill element in a curtain wall	STEPHANIE CATHARINA R CLAEYS, ...
EP3464746 A1	Curtain wall	CLAEYS STEPHANIE CATHARINA R, ...
CN104328984 A	Sash-shielding and energy-saving broken bridge aluminum alloy window	BEIJING JIAYU DOOR WINDOW & CURTAIN WALL JOINT STOCK
EP-266387 A1	Curtain walling	CONSTRUCTION UTILITIES
CN102995793 A	Curtain wall beam and upright spring bearer plate fixing structure	SHENYANG YUANDA ALUMINIUM INDUSTRY ENGINEERING
GB201712957 D0	Improvements in or relating to solar shading	PETER BRAYBROOK
WO201873799 A1	Curtain wall and wall element thereby applied and method for manufacturing such a wall element	STEPHANIE CATHERINE R KRAS, ...
CN204357274U U	Energy-saving window frame with bridge-cutoff aluminum alloy concealed sash	BEIJING JIAYU DOOR WINDOW & CURTAIN WALL JOINT STOCK
US3601946 A	Interlocking mullion construction	& G SMITH CONSTRUCTION PRODUCTS, ...
WO2018138493 A1	Improvements in or relating to solar shading	BRAYBROOK PETER
GB8508397 D0	Curtain walls	MACEY JAMES ALAN
GB201701210 D0	Improvements in or relating to solar shading	BRAYBROOK PETER
EP1978171 A2	Elemented mullion and transom facade	RAICO BAUTECHNIK
DE3140990 A1	Wall Element	JOSEF GARTNER
EP2412884 A2	Attachment structure for curtain wall elements in mullions-transoms-construction with improved thermal insulation properties	SCHINDLER FENSTER & FASSADEN
KR20140004981 A	High-efficiency energy-saving curtain wall	GUM GANG CHANG HO GI GONG, ...

Family 1/20 - FAMPAT - ©Questel

Title

(EP3464748)

Curtain wall and set and construction method for such a **curtain wall****Images***Fig. 11***Publication data including kind & date**

EP3464748	A1	2019-04-10	EP3464748
WO2017/201589	A1	2017-11-30	WO2017201589
WO2017/201589	A4	2018-02-15	WO2017201589
BE1024285	A1	2018-01-12	BE1024285
BE1024285	B1	2018-01-15	BE1024285
CA3024998	A1	2017-11-30	CA3024998
AU2017268720	A1	2018-12-13	AU2017268720
IN201837044301	A	2018-12-14	IN201837044301
SG11201810214W			



	A	2018-12-28	SG11201810214W				
BR112018074033	A1	2019-01-29	BR112018074033				
BR112018074033	A2	2019-02-26	BR112018074033				
CN109415901	A	2019-03-01	CN109415901				
CO2018013825	A2	2019-03-08	CO2018013825				
EA201892718	A1	2019-04-30	EA201892718				
CL2018003325	A1	2019-05-17	CL3325201800				

Abstract

(EP3464748)

The **curtain wall** (1) comprising **mullion** profiles (5), **transom** profiles (14) and one or more panels (4), wherein the **mullion** profiles (5) extend vertically, wherein the **transom** profiles (14) each are attached to two **mullion** profiles (5) and extend horizontally, wherein the **mullion** profiles (5) are provided with a groove (9, 10) on each side for receiving the side edge (33) of a panel (4), wherein the grooves (9,10) have an access opening (12) wherein the access opening has a first fixed dimension or width (A1) in a horizontal direction,- wherein the **transom** profiles (14) have a second dimension (A3) in a horizontal direction and at right angles to the profile direction of the **transom** profiles (14), wherein the second dimension (A3) is larger than the first dimension (A1), wherein the **transom** profiles (14) have a third dimension (A4) in a non-horizontal direction at right angles to the profile direction, wherein the third dimension CM) is smaller than the first dimension (M),

Inventors

CLAEYS ERIC

Latest standardized assignees - inventors removed

CLAEYS STEPHANIE CATHARINA R

CLAEYS LAURENS LEONARD J

CLAEYS NAUSIKAAE ELS P

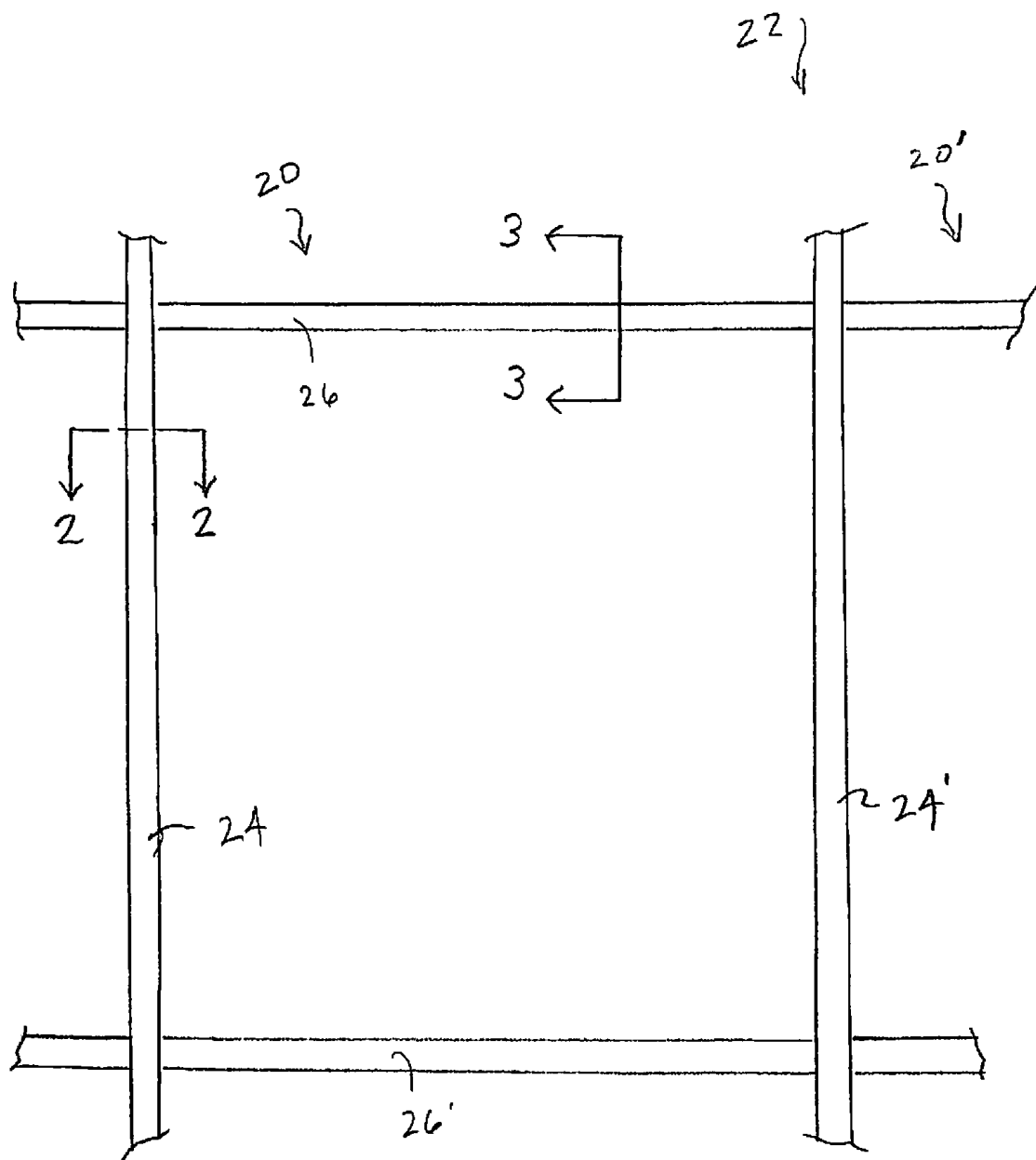
Family 2/20 - FAMPAT - ©Questel

Title

(EP3314065)

Curtain wall mullions, transoms and systems

Images



Publication data including kind & date

EP3314065	A1	2018-05-02	EP3314065				
EP3314065	A4	2019-02-20	EP3314065				
EP3371387	A1	2018-09-12	EP3371387				
EP3371387	A4	2019-06-26	EP3371387				
WO2015/200614	A1	2015-12-30	WO2015200614				
WO2017/079578	A1	2017-05-11	WO201779578				
WO2018/191397	A1	2018-10-18	WO2018191397				
US20170298621	A1	2017-10-19	US20170298621				
US20190194939	A1	2019-06-27	US20190194939				
US20150284951	A1	2015-10-08	US20150284951				
US9212482	B2	2015-12-15	US9212482				
US20160053487	A1	2016-02-25	US20160053487				
US9663946	B2	2017-05-30	US9663946				
CA2951502	A1	2015-12-30	CA2951502				
CA2951502	C	2018-12-04	CA2951502				
CA2950781	A1	2017-05-04	CA2950781				

CA2950781

C

2017-07-04

CA2950781

**Abstract**

(EP3314065)

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**.

Inventors

FREDERICK TODD

Latest standardized assignees - inventors removed

FREMARQ INNOVATIONS

Family 3/20 - FAMPAT - ©Questel

Title

(WO201873801)

Wall element for a **curtain wall** with a compartment for a wing and a sealing element**Images**

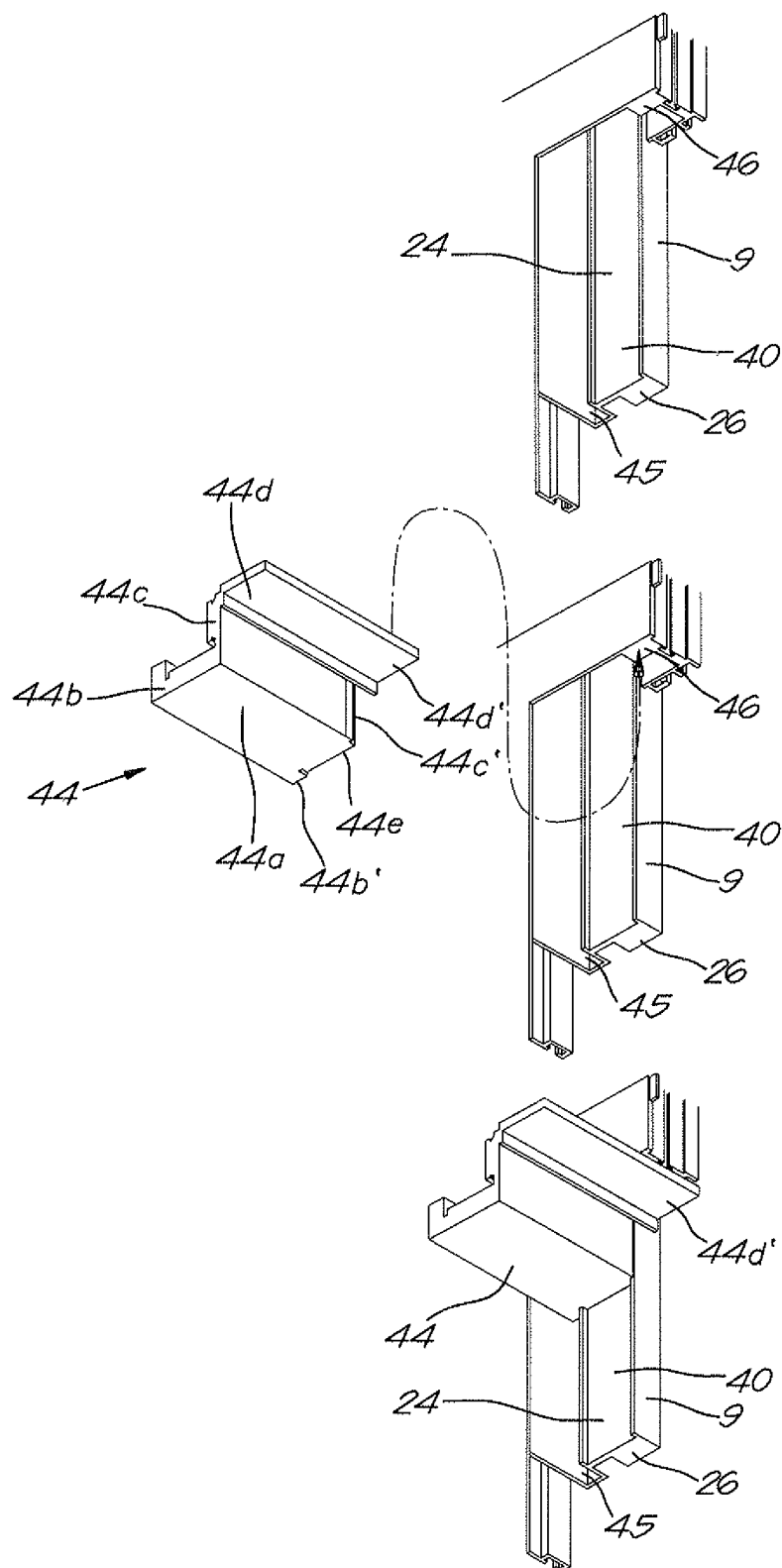


Fig. 18

Publication data including kind & date

WO2018/073801

A1 2018-04-26

WO201873801

CN109844238

A 2019-06-04

CN109844238



Abstract

(WO2018/073801)

Sealing to seal a **wall** element with a fixed frame consisting of mullions (9) and transoms (10) with perpendicular ends with which the transoms (10) are attached between the mullions (9), whereby the fixed frame (3) is fitted with at least one

compartment with a rebate (40) for a frame part (3") with an infill element (6) to create a wing that opens, or to replace a damaged infill element (6), characterised in that the seal is intended to create a windproof and watertight connection between the mullions (9) and transoms (10) in the corners of an aforementioned compartment, whereby the seal is made as a corner piece (44) that is formed and sized such that, on the level of the corners to be sealed, it fits in the form of the rebate (40) in the **mullion** (9) and **transom** in question (10) and overlaps and covers the connection between this **mullion** (10) and **transom** (10) at the level of the rebate (40).

Inventors

CLAEYS STEPHANIE CATHARINA R

CLAEYS LAURENS LEONARD J

CLAEYS NAUSIKAÄ ELS P

Latest standardized assignees - inventors removed

STEPHANIE CATHERINE R KRAS

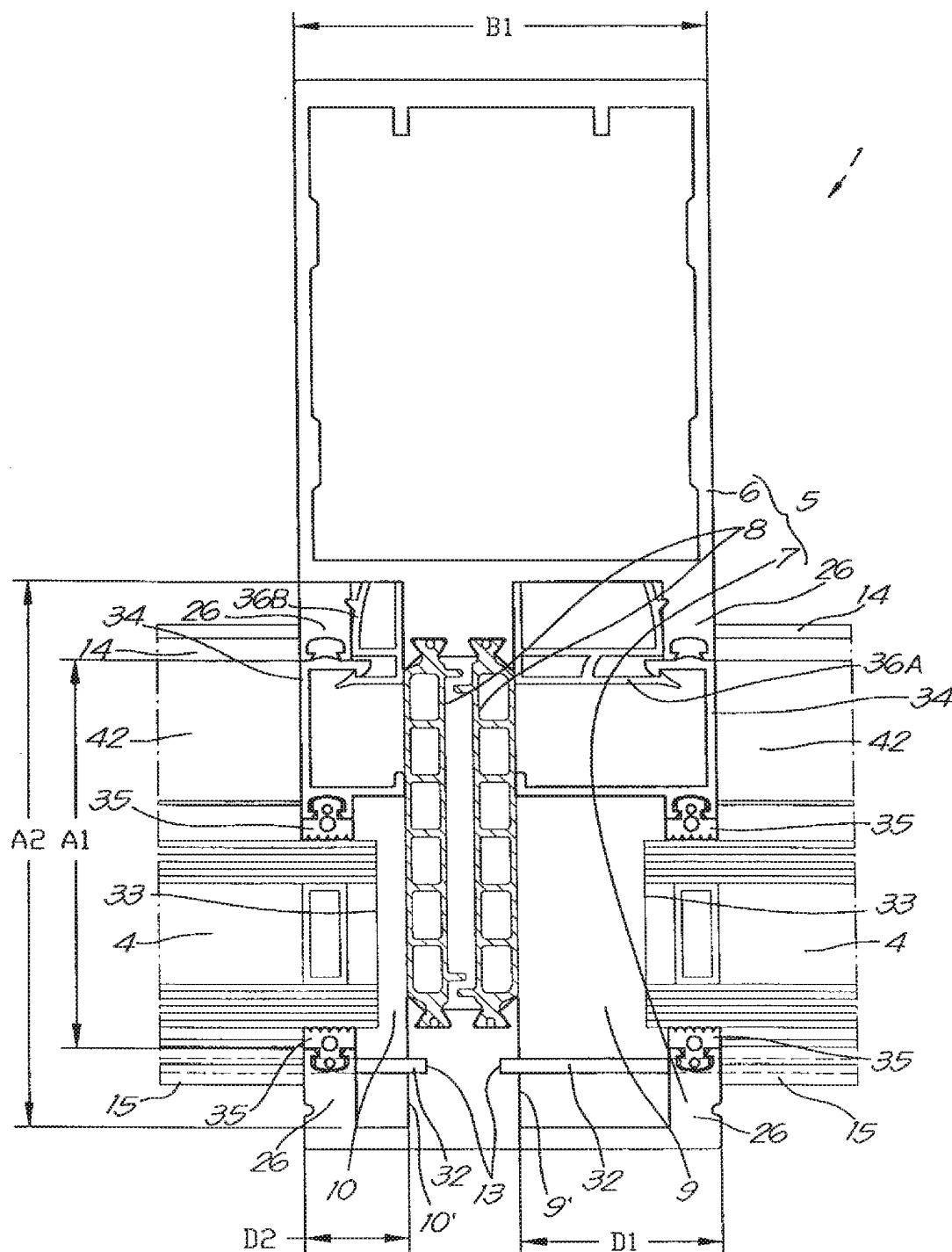
LAWRENCE LEONARD J KRAES

Family 4/20 - FAMPAT - ©Questel

Title

(EP3464747)

Curtain wall**Images**



Publication data including kind & date

EP3464747	A1	2019-04-10	EP3464747
WO2017/201588	A1	2017-11-30	WO2017201588
WO2017/201588	A8	2018-12-13	WO2017201588
US20190136523	A1	2019-05-09	US20190136523
BE1024266	A1	2018-01-10	BE1024266
BE1024266	B1	2018-01-16	BE1024266
JP2019516893	A	2019-06-20	JP2019516893
CA3025015	A1	2017-11-30	CA3025015
BR112018073963	A1	2018-12-04	BR112018073963
BR112018073963	A2	2019-02-26	BR112018073963
AU2017268719	A1	2018-12-13	AU2017268719



IN201837044304	A	2018-12-14	IN201837044304				
SG11201810168U	A	2018-12-28	SG11201810168U				
CN109415902	A	2019-03-01	CN109415902				
CO2018013813	A2	2019-03-08	CO2018013813				
EA201892719	A1	2019-04-30	EA201892719				
CL2018003326	A1	2019-05-17	CL3326201800				

Abstract

(EP3464747)

Curtain wall (1) comprising one or more **mullion** profiles (5) and one or more **transom** profiles (14), wherein the one or more **mullion** profiles (5) extend vertically, the one or more **transom** profiles (14) are attached horizontal between two **mullion** profiles (5), wherein a barrier (28, 29) for water is provided on the fixing points of the **transom** profiles (14) to the **mullion** profiles (5), wherein the barrier (28, 29) is adapted to divert this water to a said **transom** profile (4), wherein the **transom** profiles is adapted to drain this water to the outside of the **curtain wall** (1).

Inventors

CLAEYS ERIC

Latest standardized assignees - inventors removed

STEPHANIE CATHARINA R CLAEYS

LAURENS LEONARD J CLAEYS

NAUSIKAÄ ELS P CLAEYS

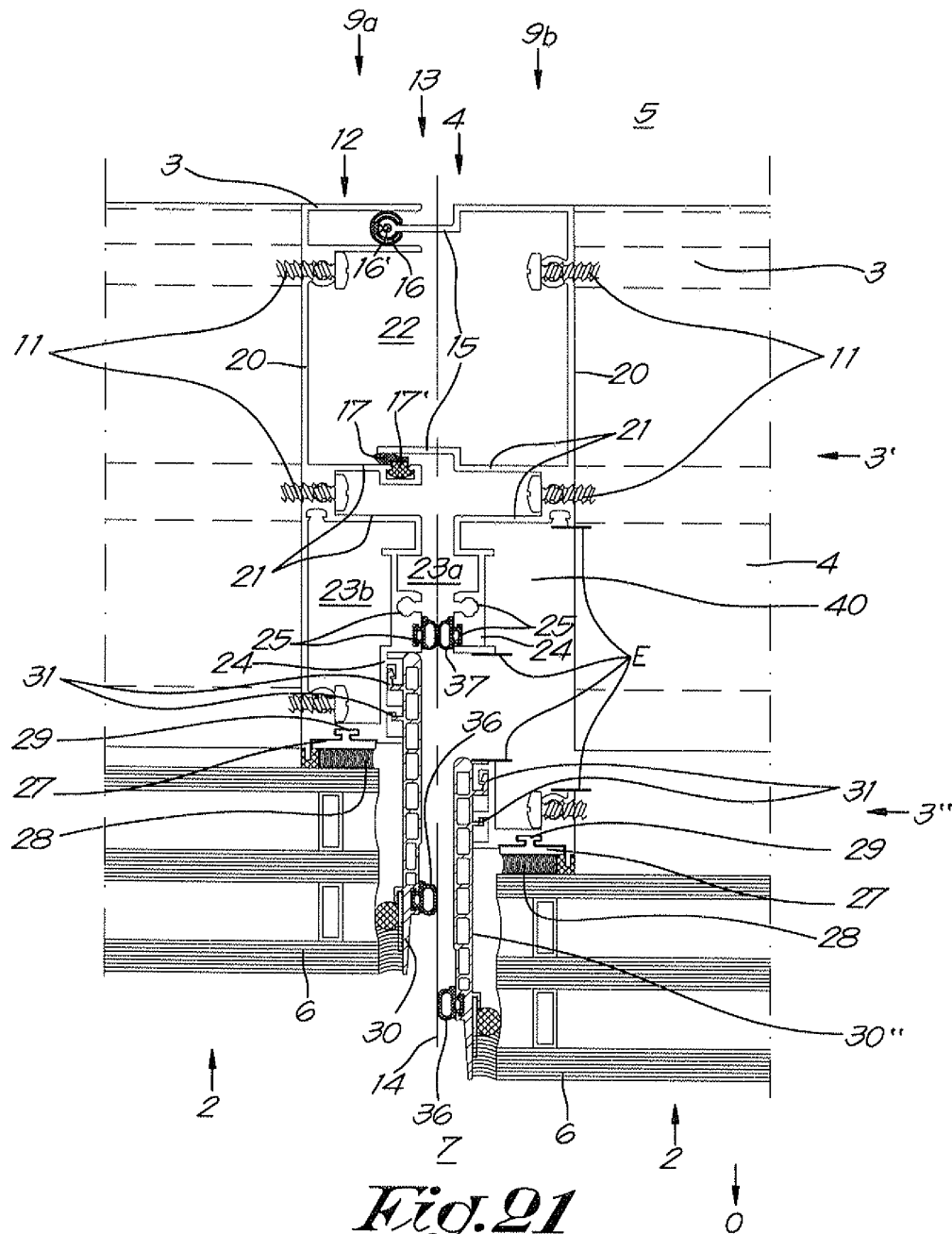
Family 5/20 - FAMPAT - ©Questel

Title

(WO201873800)

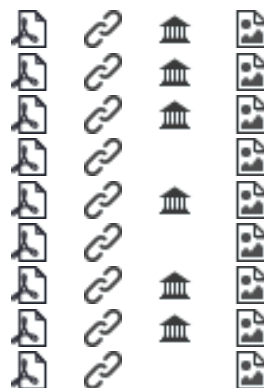
Curtain wall with a **wall** element with a frame with a compartment for a wing or the like and method for replacing an infill element in a **curtain wall**

Images



Publication data including kind & date

WO2018/073800	A1	2018-04-26	WO201873800
CA3039938	A1	2018-04-26	CA3039938
AU2017345524	A1	2019-04-11	AU2017345524
CO2019003888	A2	2019-04-30	CO2019003888
IN201937011125	A	2019-05-03	IN201937011125
SG11201902443R	A	2019-05-30	SG11201902443R
CN109844236	A	2019-06-04	CN109844236
BR112019005376	A1	2019-06-18	BR112019005376
CL2019001035	A1	2019-06-28	CL1035201900



Abstract

(WO2018/073800)

Curtain wall constructed from prefabricated connecting **wall** elements (2) consisting of a frame (3) of assembled profiles (4) on the inside (5) of the **curtain wall** (1) and of one or more filling elements (6) on the outside (7), whereby the **curtain wall** contains a **wall** element (2) with a two-part frame (3) consisting of two subframes, respectively a fixed frame part (3') and a

second frame part (3'') fitted with an infill element (6), characterized in that the fixed frame part (3') is located behind the second frame part (3'') seen from the outside (7) of the **curtain wall** (1), whereby the fixed frame part (3'') is equipped with a rebate (40) into which the second frame part (3'') fits and whereby the relevant filling element (6) is attached to the outside of the **curtain wall** (1) on the outward looking side (7) of the second frame part (3'') using structural silicone (28) in such a way that this outside of the second frame part (3'') is entirely covered by the filling element (6).

Inventors

CLAEYS STEPHANIE CATHARINA R

CLAEYS LAURENS LEONARD J

CLAEYS NAUSIKAÄ ELS P

Latest standardized assignees - inventors removed

STEPHANIE CATHARINA R CLAEYS

LAURENS LEONARD J CLAEYS

NAUSIKAÄ ELS P CLAEYS

Family 6/20 - FAMPAT - ©Questel

Title

(EP3464746)

Curtain wall**Images**

CA3025025	A1	2017-11-30	CA3025025				
BR112018074048	A1	2018-12-04	BR112018074048				
BR112018074048	A2	2019-02-26	BR112018074048				
AU2017268718	A1	2018-12-13	AU2017268718				
IN201837044300	A	2018-12-14	IN201837044300				
SG11201810212V	A	2018-12-28	SG11201810212V				
CO2018013839	A2	2019-03-08	CO2018013839				
CN109477335	A	2019-03-15	CN109477335				
CL2018003328	A1	2019-05-17	CL3328201800				
EA201892720	A1	2019-06-28	EA201892720				

Abstract

(EP3464746)

Curtain wall (1) comprising **mullion** profiles (5), **transom** profiles (14) and panels (4), wherein the **mullion** profiles (5) extend vertically, with the **transom** profiles (14) being fixed at right angles to the **mullion** profiles (5), wherein the **transom** profiles (14) and the profile profiles (5) define rectangular openings, wherein the panels (4) are placed in said openings to close these openings, characterized in that the (panels (4) are secured by means of first glazing beads (34), that are attached to a said **mullion** profile (5) by means of first attachment aids (36), wherein the first attachment aids (36) and said **mullion** profiles (5) are designed to attach the first attachment aids (36) to a said **mullion** profile (5), wherein the first attachment aids (36) and the first glazing beads (34) are designed to snap the first glazing beads (34) onto the first attachment aids (36).

Inventors

CLAEYS ERIC

Latest standardized assignees - inventors removed

CLAEYS STEPHANIE CATHARINA R

CLAEYS LAURENS LEONARD J

CLAEYS NAUSIKAÄ ELS P

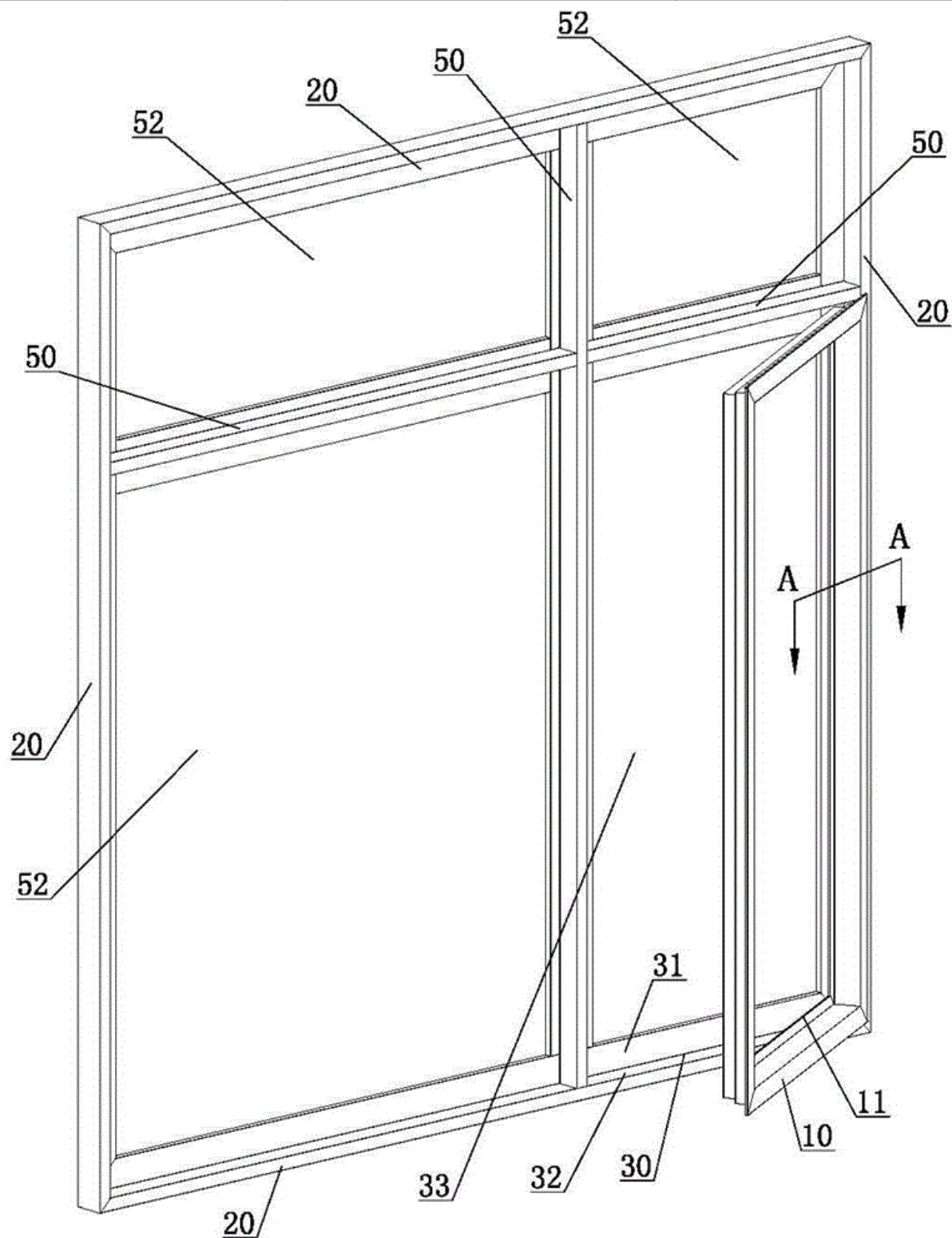
Family 7/20 - FAMPAT - ©Questel

Title

(CN104328984)

Sash-shielding and energy-saving broken bridge aluminum alloy window

Images



Publication data including kind & date

CN104328984	A	2015-02-04	CN104328984
CN104328984	B	2016-05-04	CN104328984B



Abstract

(CN104328984)

The invention relates to a sash-shielding and energy-saving broken bridge aluminum alloy window. The sash-shielding and energy-saving broken bridge aluminum alloy window comprises a window frame body and a window sash, wherein a framework of the window sash is formed by a plurality of window sash profiles; a window sash groove is formed in the window frame body and is provided with the outer wall and the side wall; the outer wall of the window sash groove is arranged on the outdoor side of the window frame body; a window sash opening is formed in the outer wall of the window sash groove; an opening in the indoor side of the window sash groove is larger than the window sash opening; the window sash

is inserted into the window sash groove; the inner edge of the window sash framework corresponds to the window sash opening, so that the window sash framework is shielded in the window sash groove outside the room. The sash-shielding and energy-saving broken bridge aluminum alloy window has the advantages that the structure strength of a mullion of the window framework is improved, the wind resistance and deformation resistance properties of the window body are improved, the heat preservation and sound insulation properties are improved, the window sash is shielded in the window frame, the whole window body is neat and uniform when being observed from the outer part of the building, the appearance of the building outer window is improved, the illegal entry in the room by virtue of the window sash is avoided by the shielding property of the window sash, and the sash-shielding and energy-saving broken bridge aluminum alloy window has an anti-burglary function.

Inventors

LIU SHUYAN

LIU LIBIN

ZHANG GUOFENG

ZHANG ZHICHENG

Latest standardized assignees - inventors removed

BEIJING JIAYU DOOR WINDOW & CURTAIN WALL JOINT STOCK

Family 8/20 - FAMPAT - ©Questel

Title

(EP-266387)

Curtain walling

Images

DK654387	A	1987-12-14	DK8706543
DK654387	D0	1987-12-14	DK8706543
FI875474	A	1987-12-14	FI8705474
FI875474	A0	1987-12-14	FI8705474
FI87385	B	1992-09-15	FI--87385
DK164958	B	1992-09-21	DK-164958
FI87385	C	1992-12-28	FI--87385
DK164958	C	1993-02-15	DK-164958C
AT58568	T	1990-12-15	ATE058568



Abstract

(EP0266387)

Curtain walling comprising a framework of mullions (10) and transoms (20) supporting solid or glazed panels (12, 14). Each **transom** (20) has a body portion (22) and a projecting nose portion (24) on which the panel above the **transom** is supported. Each **transom** (20) is joined to each adjacent **mullion** (10) by means of a connecting member (80, 380) secured to the **mullion** and projecting laterally so as to engage the nose portion (24) of the **transom** (20). The connecting member may be a spigot (80) shaped to fit into a cavity (32) in the nose portion (24). Engagement of the connecting member in the nose portion rather than the body portion (22) of the **transom** enables the weight of the panel to be supported without any turning moment being exerted on the **transom**. The nose portion (24) of each **transom** (20) may be relatively long. A pressure plate (40) connected to each **transom** (20) is designed to ensure ventilation of the internal cavity of the **curtain** walling and to allow water to drain from within the cavity.

Inventors

BORLEY, HOWARD

Latest standardized assignees - inventors removed

CONSTRUCTION UTILITIES

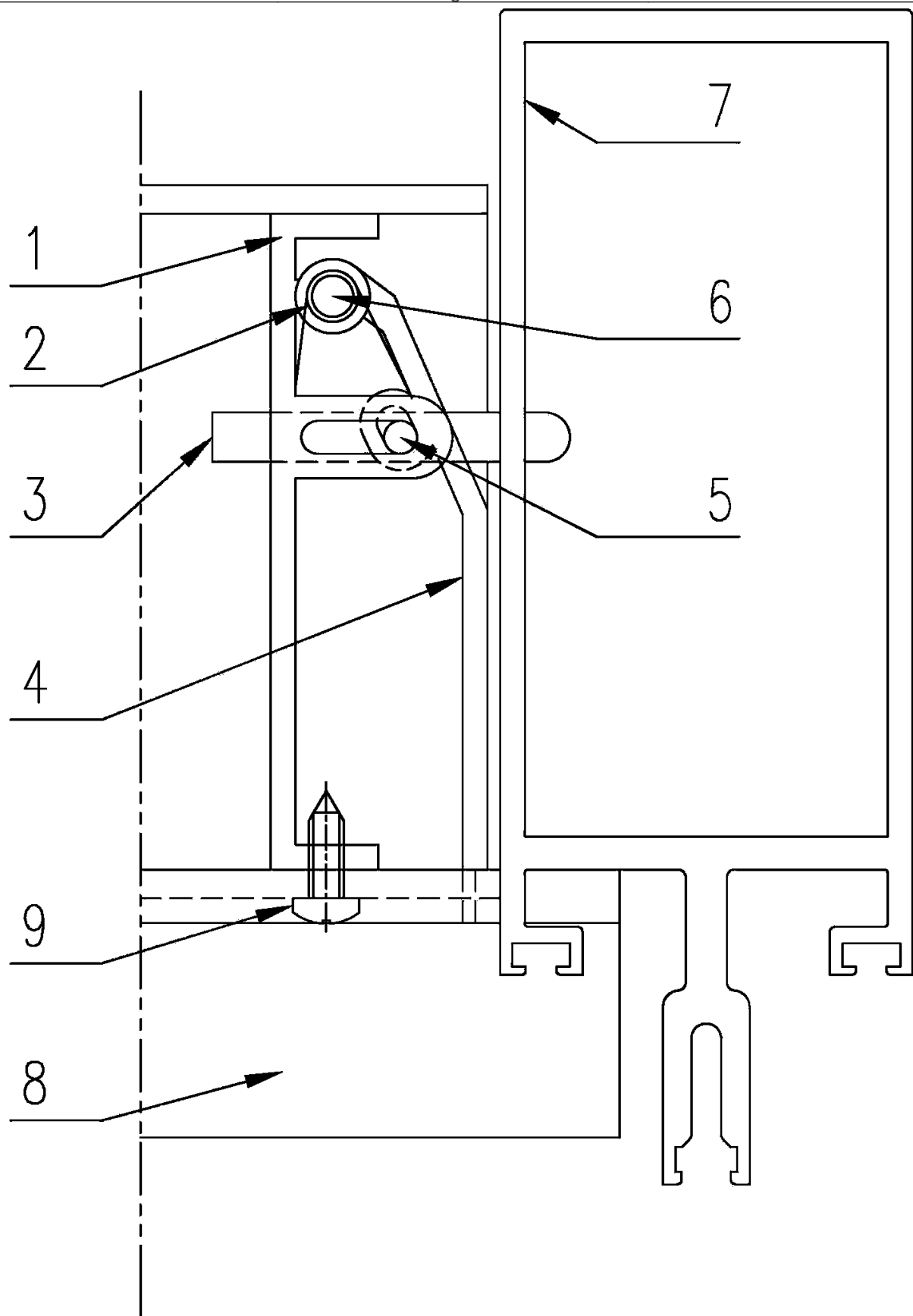
Family 9/20 - FAMPAT - ©Questel

Title

(CN102995793B)

Curtain wall beam and upright spring bearer plate fixing structure

Images



Publication data including kind & date

CN102995793	A	2013-03-27	CN102995793
CN102995793	B	2015-03-11	CN102995793B



Abstract

(CN102995793)

The invention relates to a **curtain wall** beam and upright spring bearer plate fixing structure, which is characterized by comprising a **rotating** shaft, a metal pressing plate, a metal clamping piece, a spring, a transmission shaft and a connecting

pin, wherein the rotating shaft penetrates through a circular groove of the metal clamping piece, a hole of the spring, and a circular groove on an inner hole of the metal pressing plate so as to sequentially connect the metal clamping piece, the spring and the metal pressing plate together; and the transmission shaft penetrates through a strip hole groove of the metal clamping piece, the connecting pin and the strip hole groove on the metal pressing plate so as to sequentially connect the metal clamping piece, the connecting pin and the metal pressing plate together. The curtain wall beam and upright spring bearer plate fixing structure effectively solves the problems that in the prior art, the disassembly is difficult after connection, whether a bolt is installed in place is hard to judge, the materials are wasted, and the like, and has the characteristics of quickness and convenience in installation, convenience in disassembly of a curtain wall, good stability, and capabilities of effectively reducing material cost and construction cost.

Inventors

ZHAO WEI

Latest standardized assignees - inventors removed

SHENYANG YUANDA ALUMINIUM INDUSTRY ENGINEERING

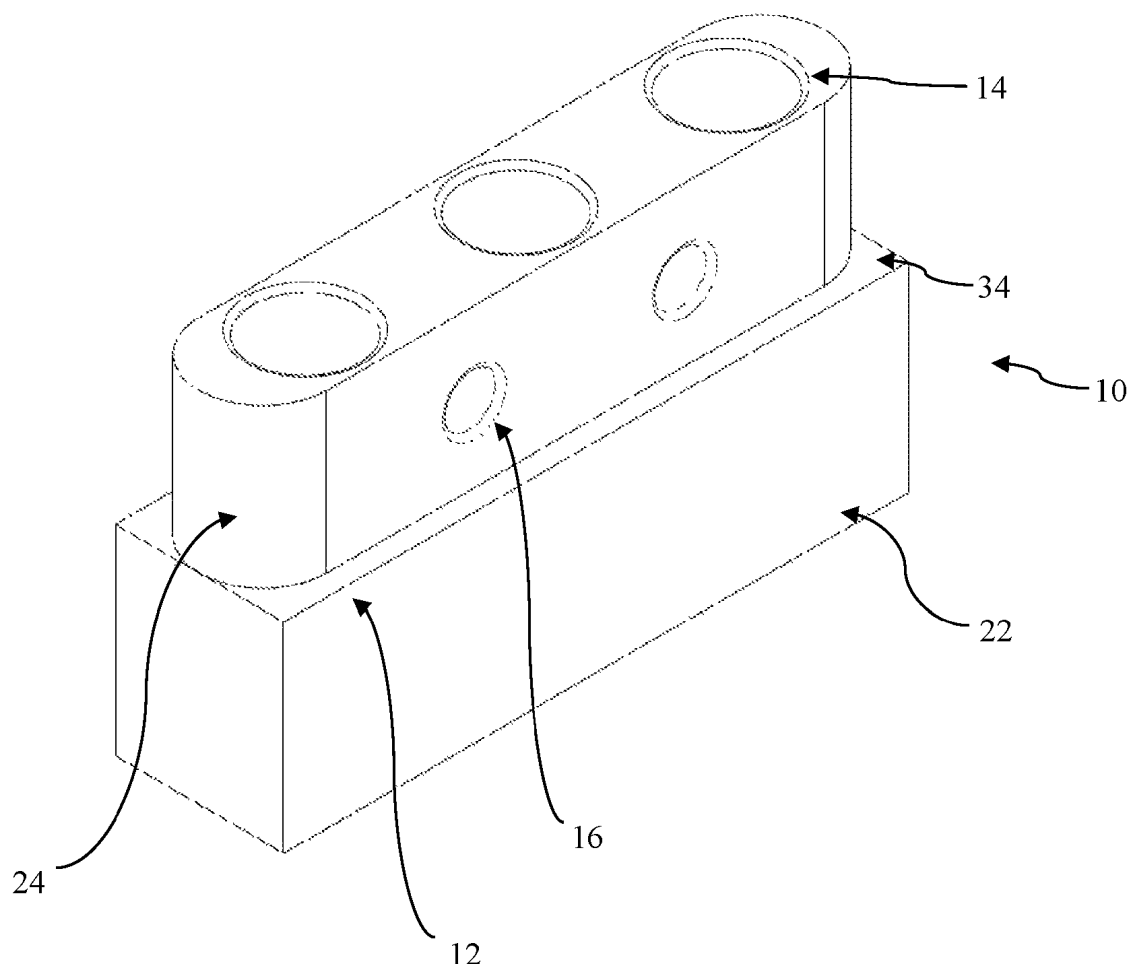
Family 10/20 - FAMPAT - ©Questel

Title

(GB2558974)

Improvements in or relating to solar shading

Images

Figure 1**Publication data including kind & date**

GB201712957	D0	2017-09-27	GB201712957
GB2558974	A	2018-07-25	GB2558974

**Abstract**

(GB201712957)

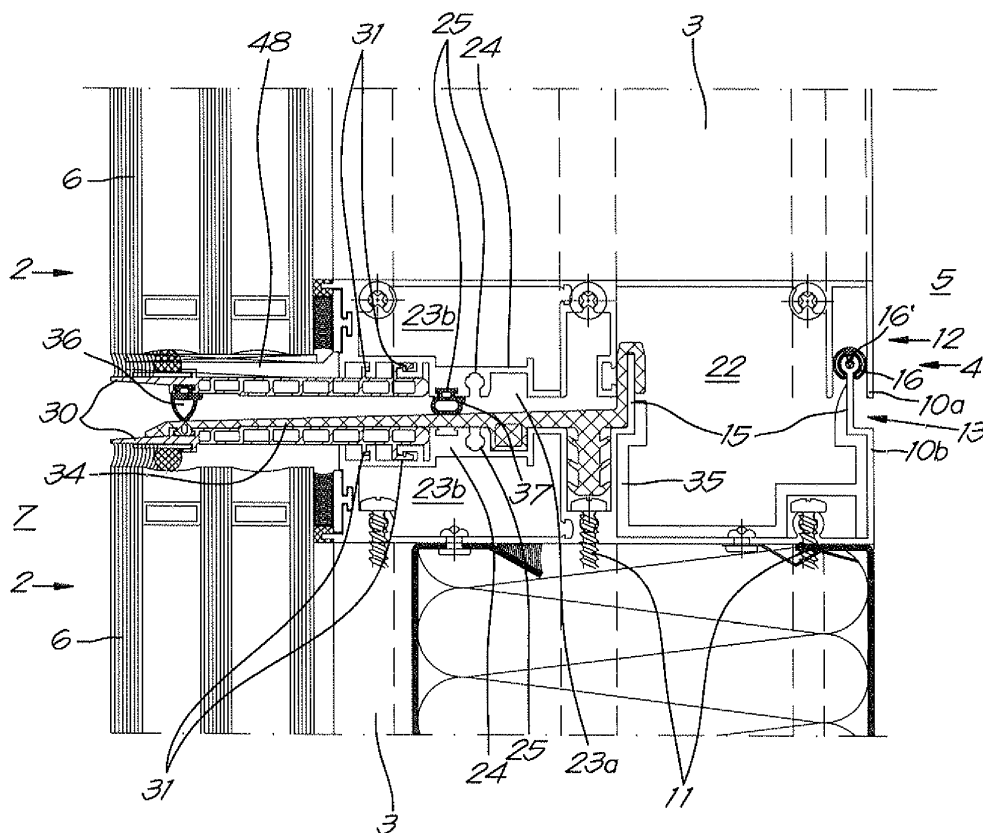
The device 10 comprises mounting body 22, 24 preferably made from a fibre reinforced plastics or stainless steel, to be used together for forming a thermal break to inhibit thermal conduction between an exterior solar shading structure and a building element, such as a **mullion** of a **curtain wall**, to which it is attached, a plurality of **mullion**-engagement apertures 14 extending through the mounting body for receiving fixings, such as **mullion** fasteners 26, a plurality of bracket-plate apertures 16 extending through the mounting body transversely of the **mullion**-engagement apertures 14, a pair of opposing bracket-engagement plates 18 for engaging an exterior-solar-shading bracket mounting member 36. A method of installing includes using at least two different mounting bodies of different material, preferably steel to provide strength and an insulator to minimize conduction (see Figure 6). Also claimed are various different device configurations and systems including a **curtain wall** and solar shading.

Inventors

PETER BRAYBROOK

Title

(WO201873799)

Curtain wall and **wall** element thereby applied and method for manufacturing such a **wall** element**Images***Fig.5***Publication data including kind & date**

WO2018/073799	A1	2018-04-26	WO201873799
CN109844237	A	2019-06-04	CN109844237

**Abstract**

(WO2018/073799)

Curtain wall constructed from prefabricated connecting **wall** elements (2) mounted in rows next to and above each other with the **wall** elements (2) consisting of a frame (3) of assembled profiles (4) on the inside (5) of the **curtain wall** (1) and of one or more infill elements (6) on the outside (7) of the **curtain wall** (1), characterised in that the frame (3) contains mullions (9) and transoms (10) in the form of profiles (9a, 9b and 10a, 10b) which along the perimeter of the frame (3) have female coupling parts (12) and male coupling parts (13) which allow the adjacent mullions (9) and adjacent transoms (10) in an assembled condition in the **curtain wall** (1) to engage with their coupling parts (12-13) to form composite basic profiles (4), whereby between two rows of connecting **wall** elements (2) a horizontal seal (34) has been applied which extends continuously in a horizontal direction over the width of the underlying row.

Inventors

CLAEYS STEPHANIE CATHARINA R
 CLAEYS LAURENS LEONARD J
 CLAEYS NAUSIKAÄ ELS P

Latest standardized assignees - inventors removed

STEPHANIE CATHERINE R KRAS
 LAWRENCE LEONARD J KRAES

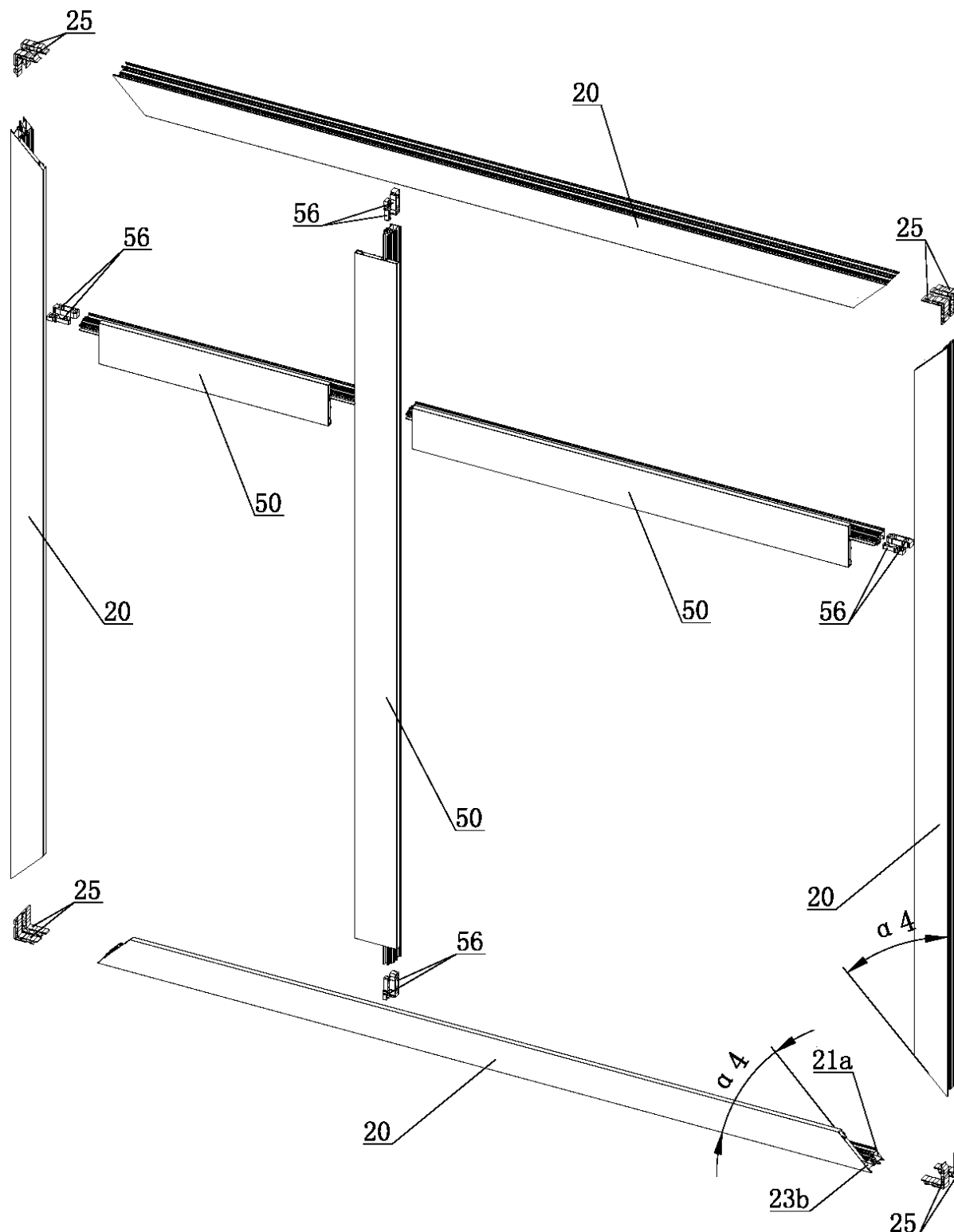
Family 12/20 - FAMPAT - ©Questel

Title

(CN204357274U)

Energy-saving window frame with bridge-cutoff aluminum alloy concealed sash

Images



Publication data including kind & date

[CN204357274](#)

U

2015-05-27

CN204357274U



Abstract

(CN204357274)

The utility model relates to an energy-saving window frame with a bridge-cutoff aluminum alloy concealed sash. The energy-saving window frame is provided with the concealed energy-saving sash; the sash comprises a sash frame

consisting of sash sections; the window frame is provided with a sash groove; the sash groove is provided with an outer side **wall** and edge side walls; the outer side **wall** of the sash groove is arranged on an outdoor side of the window frame and is provided with a sash opening; the sash is inlaid in the sash groove; and the inner edge of the sash frame corresponds to the sash opening so that the sash frame is shielded in the sash groove on the outer side of a room. The energy-saving window frame with the bridge-cutoff aluminum alloy concealed sash has the advantages that the structural strength of borders and a **mullion** of a window are improved, the wind resistance and the deformation resistance of the window are improved, and the heat-insulation property and the sound-insulation property of the window are improved; the sash is shielded in the window frame, the whole window is neat and uniform when seen from the outside of a building, and the appearance of the window of the building is improved obviously; and owing to the concealed sash, criminal offenders are prevented from entering an indoor environment through the sash, and an antitheft function is fulfilled.

Inventors

LIU SHUYAN

LIU LIBIN

ZHANG GUOFENG

ZHANG ZHICHENG

Latest standardized assignees - inventors removedBEIJING JIAYU DOOR WINDOW & **CURTAIN WALL** JOINT STOCK

Family 13/20 - FAMPAT - ©Questel

Title

(US3601946)

Interlocking **mullion** construction**Images**

SHEET 1 OF 2

FIG. 1

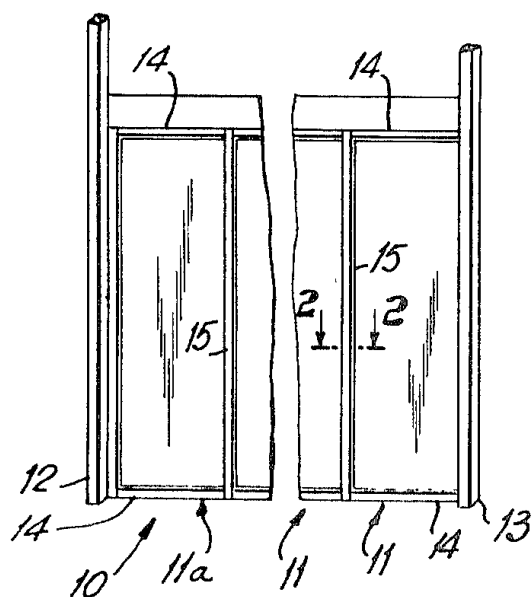
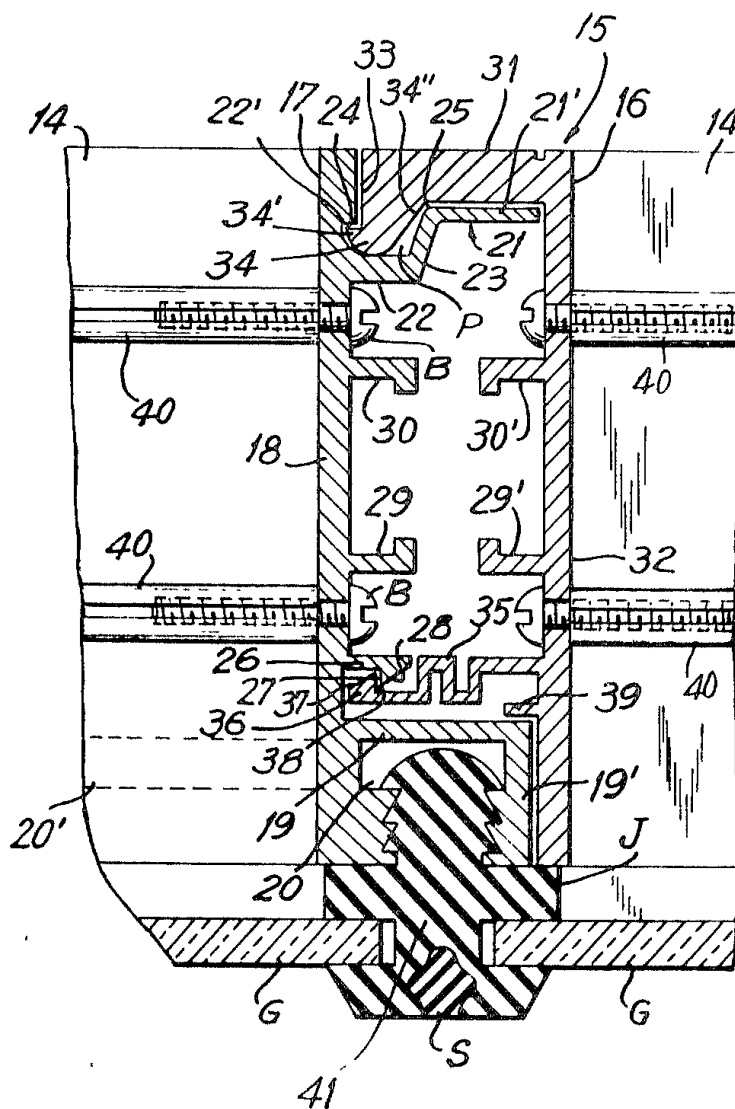


FIG. 2



INVENTOR
WILHELM F. ROTHMUN

BY Mark Busseches

US3601946	A	1971-08-31	US3601946
GB1296782	A	1972-11-15	GB1296782

**Abstract**

(US3601946)

An interlocking **mullion** construction and **curtain wall** assembly incorporating the same, characterized by the provision of **mullion** half sections forming, respectively, the leading edge of one **curtain wall** preassembly, and the trailing edge of an adjacent **curtain wall** preassembly, the half sections being insertable into partial interlocking engagement by tilting of one section relative to the other section and sidewise relative movement of the sections to insert a trunnion member of one section into an open mouth bearing pocket of the other section, subsequent pivotal movement of the sections into coplanar alignment serving to interlock the two **mullion** half sections to prevent relative movement of the sections and to form a **mullion** assembly of a structural strength comparable to an integrally extruded hollow **mullion**.

Inventors

ROTHEMUND WILHELM F

Latest standardized assignees - inventors removed

& G SMITH CONSTRUCTION PRODUCTS

FLOUR CITY ARCHITECTURAL METALS

MSL ACQUISTION

CYCLOPS

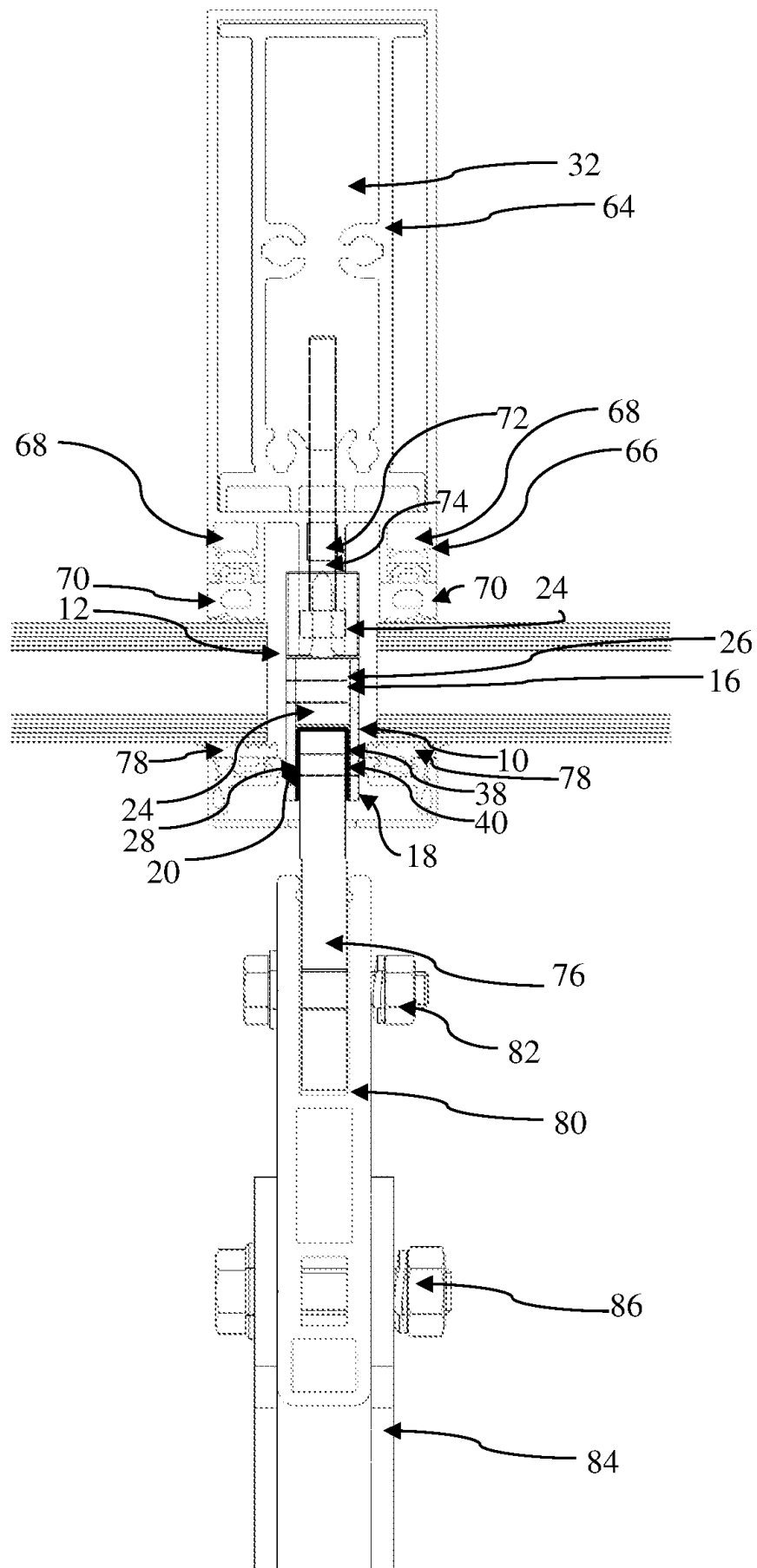
Family 14/20 - FAMPAT - ©Questel

Title

(WO2018138493)

Improvements in or relating to solar shading

Images

Figure 12

Publication data including kind & date

WO2018/138493

A1 2018-08-02

WO2018138493

**Abstract**

(WO2018/138493)

An exterior-solar-shading thermal-break bracket mounting device (10) comprises a fibre-reinforced plastics mounting body (12) forming a thermal break which prevents or reduces thermal conduction, a plurality of **mullion**-engagement apertures (14) extending through the mounting body (12) by which the fibre-reinforced plastics mounting body (12) is engageable with a **curtain**-walling **mullion** (32), and a plurality of bracket-plate apertures (16) extending through the fibre-reinforced plastics mounting body (23) transversely of the **mullion**-engagement apertures (14) and spaced therefrom to maintain the said thermal break. A pair of opposing bracket-engagement plates (18) are attached or attachable to the fibre-reinforced plastics mounting body (12) via the bracket-plate apertures (16), and at least one bracket-engagement aperture (20) in each bracket-engagement plate (18) for engaging an exterior-solar-shading bracket (36) or a mounting member therefor. A method of installing an exterior-solar shading bracket at a **curtain** walling **mullion** of a structure is also provided.

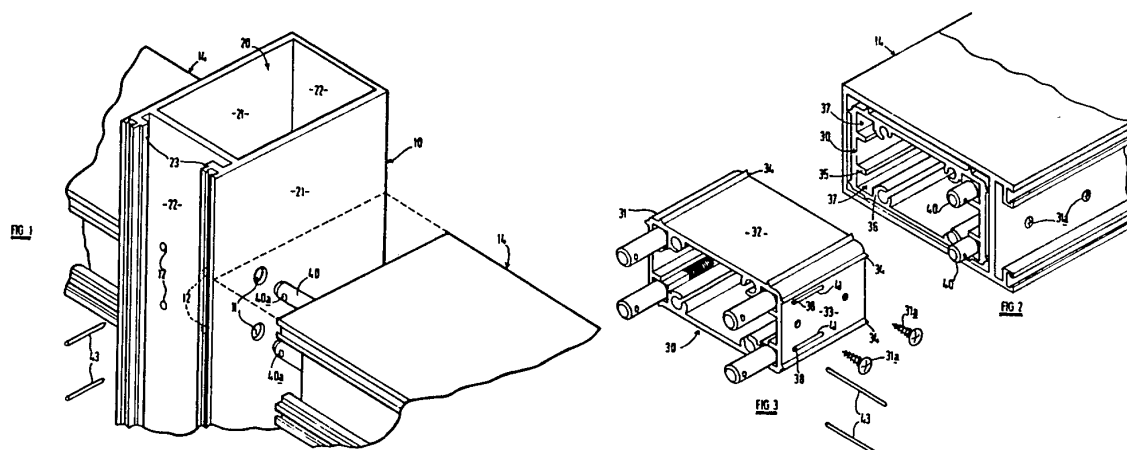
Inventors

BRAYBROOK PETER

Family 15/20 - FAMPAT - ©Questel

Title

(GB2176217)

Curtain walls**Images****Publication data including kind & date**

GB8508397

D0 1985-05-09

GB8508397

GB2176217

A 1986-12-17

GB2176217

GB2176217

B 1988-10-05

GB2176217

**Abstract**

(GB8508397)

Mullions 10 and transoms 14 are joined together by an end fitting secured within the ends of the transoms. End fitting 30 may incorporate spring-loaded bolts 40 to engage in apertures 11 in the **mullion**. Another embodiment of the end fitting, affords apertures to receive spring-loaded bolts carried by an internal fitting within the **mullion**. In both cases locking pins are inserted through bores in the bolts to prevent withdrawal thereof. In a further embodiment, the end fitting cooperates with an external fitting secured to the **mullion**.

Inventors

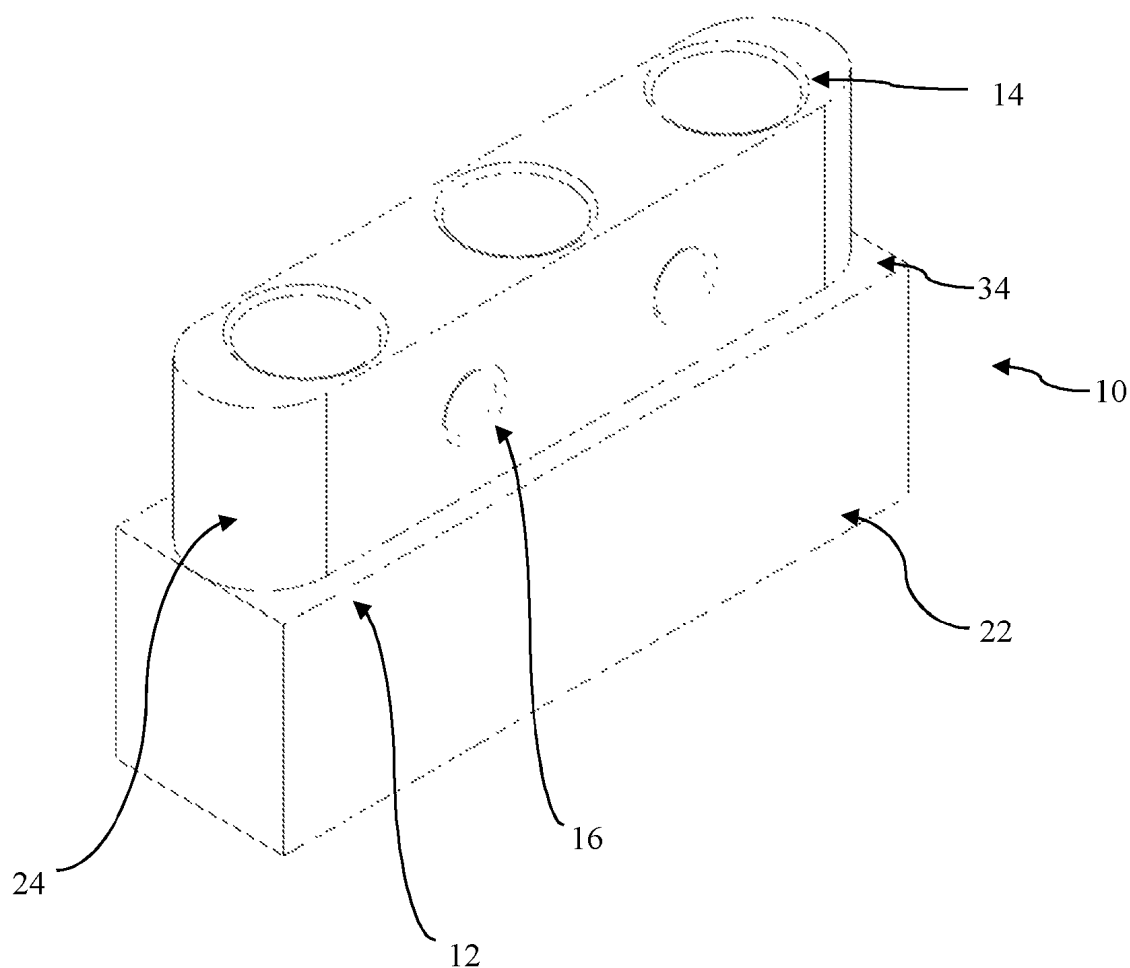
MACEY JAMES ALAN

Family 16/20 - FAMPAT - ©Questel

Title

(GB2558958)

Improvements in or relating to solar shading

Images**Figure 1****Publication data including kind & date**

GB201701210	D0	2017-03-08	GB201701210
GB2558958	A	2018-07-25	GB2558958
GB201712793	D0	2017-09-20	GB201712793

**Abstract**

(GB201701210)

The bracket mounting device 10 comprises a fibre-reinforced plastics mounting body 22, 24 for forming a thermal break to inhibit thermal conduction between an exterior solar shading structure and a building element, such as a **mullion** of a **curtain wall**, to which it is attached, a plurality of **mullion**-engagement apertures 14 extending through the mounting body for receiving fixings, such as **mullion** fasteners 26, a plurality of bracket-plate apertures 16 extending through the mounting body transversely of the **mullion**-engagement apertures 14 and spaced therefrom to maintain the thermal break, a pair of opposing bracket-engagement plates 18 attachable to the mounting body via the bracket-plate apertures, each bracket-engagement plate having at least one bracket-engagement aperture 20 for engaging an exterior-solar-shading bracket mounting member 36. The bracket may also include an insulating sheath 40 or packers (140, Fig. 4). Also claimed is a bracket having a mounting body integrally formed with a solar-shading bracket receiver (see Fig. 8).

Inventors

PETER BRAYBROOK

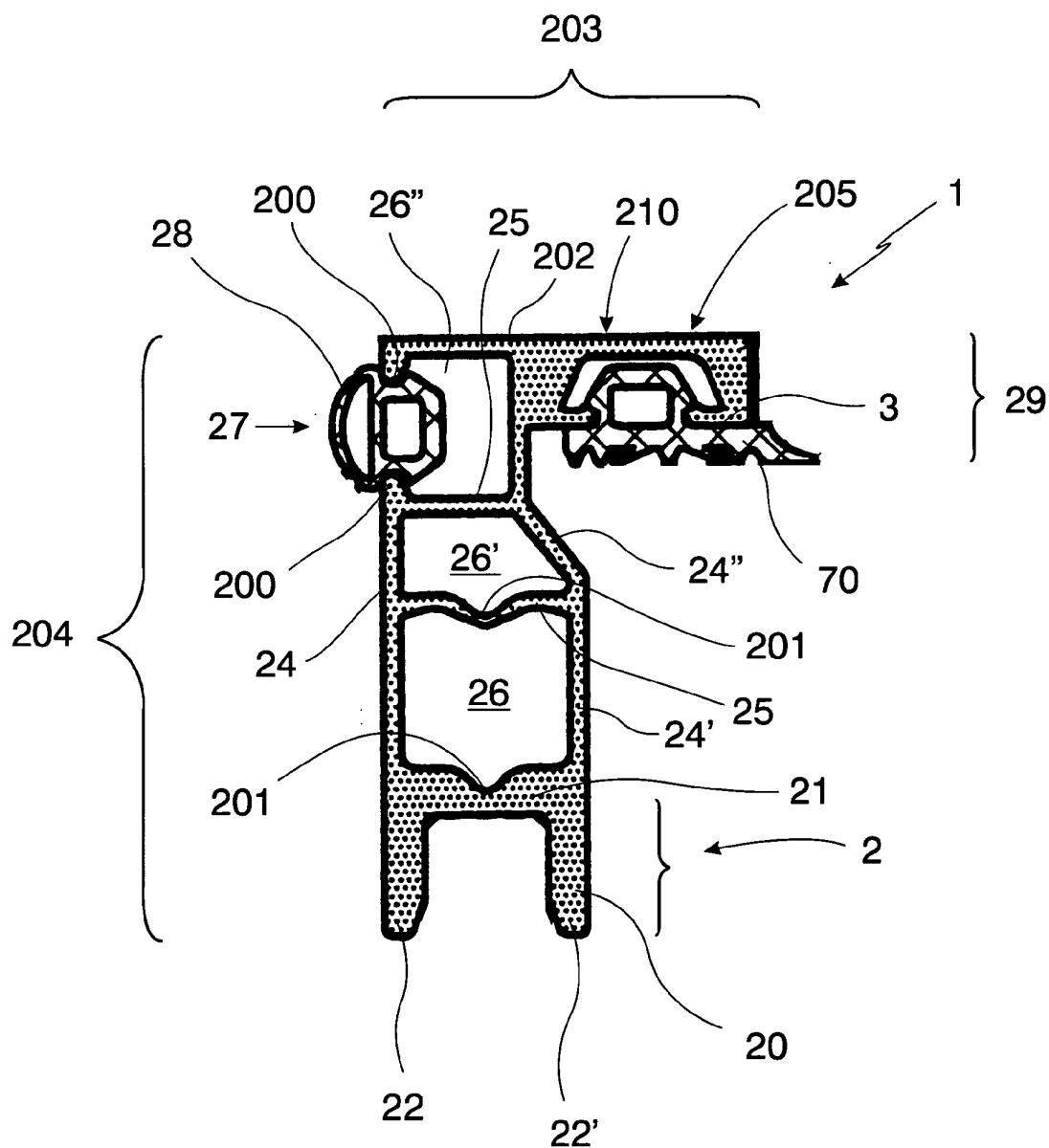
Latest standardized assignees - inventors removed

BRAYBROOK PETER

Family 17/20 - FAMPAT - ©Questel

Title

(EP1978171)

Elemented **mullion** and **transom** facade**Images****Fig. 1****Publication data including kind & date**

EP1978171	A2	2008-10-08	EP1978171
EP1978171	A3	2012-01-25	EP1978171
EP1978171	B1	2014-05-07	EP1978171



DE202008004373

U1 2008-08-07

DE202008004373

DK1978171

T3 2014-08-11

DK1978171T

**Abstract**

(EP1978171)

Insulating profile comprises a connecting region (2) interacting with a fixing channel of a facade or module profile and a support surface (3) for directly or indirectly holding a insulating glass pane. An independent claim is also included for a facade module consisting of a module profile and an insulating profile. Preferred Features: The connecting region has a U-shaped foot (20) or an insertion foot. The insulating profile has an insulating chamber (26) with an opening and an intermediate wall (25) with a groove-like recess (201).

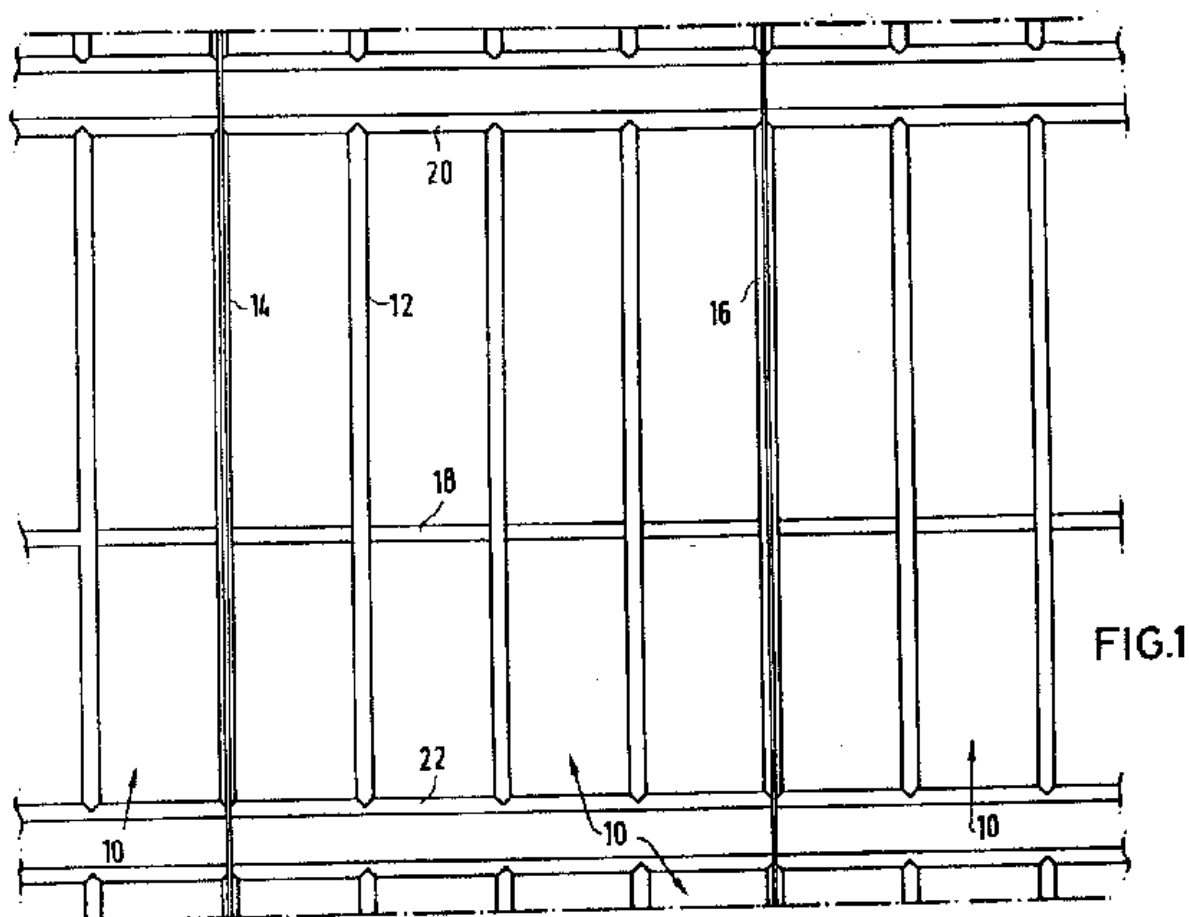
Latest standardized assignees - inventors removed

RAICO BAUTECHNIK

Family 18/20 - FAMPAT - ©Questel

Title

(DE3140990)

Wall Element**Images****Publication data including kind & date**

DE3140990

A1 1983-05-05

DE3140990

DE3140990

C2 1994-10-27

DE3140990

GB2108561

A 1983-05-18

GB2108561

GB2108561

B 1985-11-13

GB2108561

JPS58135269

A 1983-08-11

JP58135269

JPH021943

B2 1990-01-16

JP90001943

JP1576519

C 1990-08-24

JP1576519

NL8203378

A 1983-05-02

NL8203378



NL191066	B	1994-08-01	NL-191066
NL191066	C	1995-01-02	NL-191066
CA1184047	A	1985-03-19	CA1184047
HK39086	A	1986-06-06	HK8600390

**Abstract**

(DE3140990)

JPB:1jz Docket No. 82127 FRITZ GARTNER PROCESS FOR THE INSTALLATION OF CURTAIN WALLS AND WALL ELEMENTS ESPECIALLY FOR THE EXECUTION OF THE PROCESS A process for the installation of a curtain wall of a building consisting of posts and tie bars includes the step of preassembling tie bars on an auxiliary frame to form a wall element. The composite structure so provided is then transported to the place of installation of the wall element, at which point it is fastened to the building to form part of its curtain wall. Once the wall element is fastened to the building, the auxiliary frame is then removed for further use in the preassembly thereon of further wall elements. In the preferred practice of the invention the posts and tie bars and any other elements desired to form part of the curtain wall of the building are brought to a floor or floors of the building while the building is under construction wherein the preassembly of the wall elements on an auxiliary frame may take place, as and when necessary. The arrangement facilitates the assembly of the wall elements to form part of the curtain wall in a protected area of the building site which is relatively close to their place of installation. The movement of the preassembled wall elements is aided, preferably, by the use of trolley means connected to the building. Apparatus per the invention therefore includes in the first instance a frame to which are assembled posts and tie bars, together with facade panels and glazing, if desired, to form an individual wall element a plurality of which can be joined in the formation of a curtain wall. The connection between each wall element and the frame on which it is assembled is limited and facilitates a quick release of the frame from the wall element, once the wall element is attached to form part of a curtain wall.

(From CA1184047 A1)

Inventors

GARTNER FRITZ DR

Latest standardized assignees - inventors removed

JOSEF GARTNER

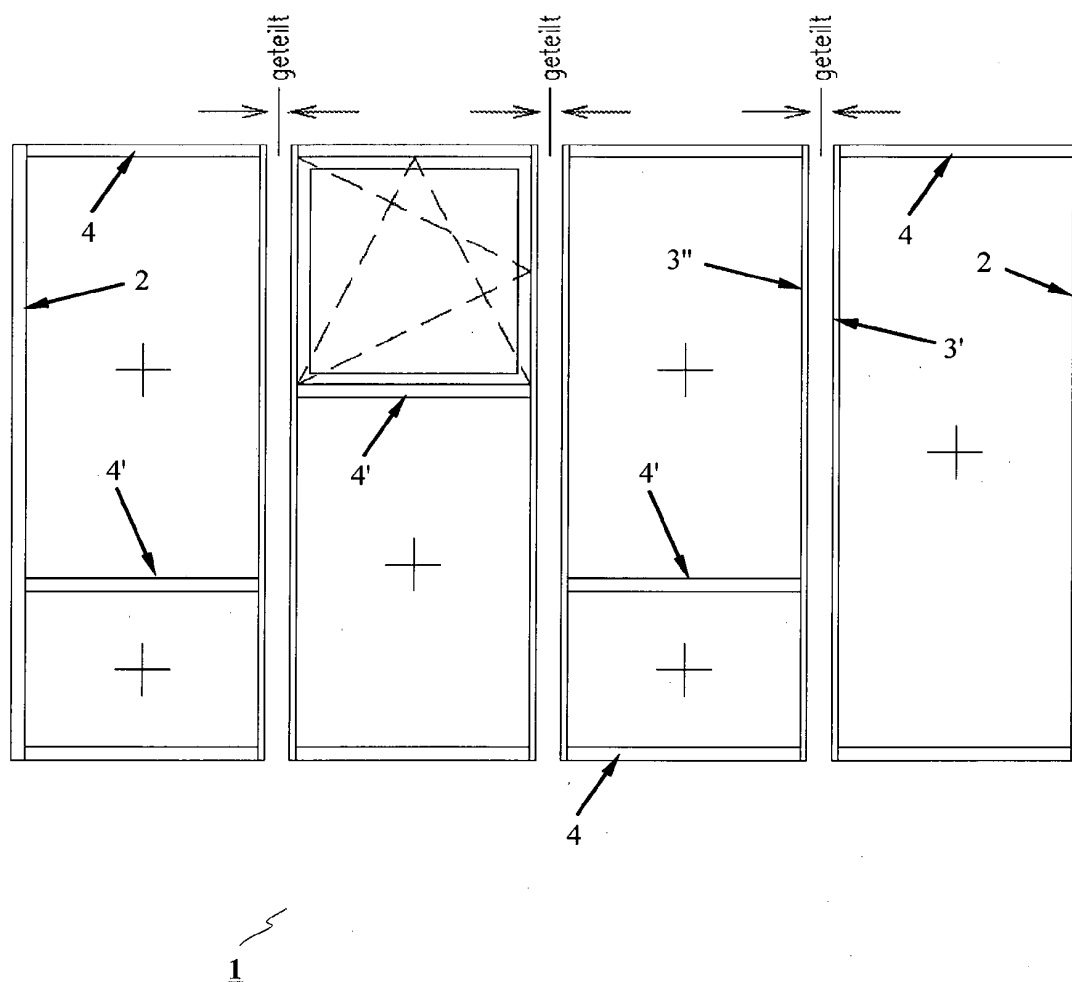
Family 19/20 - FAMPAT - ©Questel

Title

(EP2412884)

Attachment structure for curtain wall elements in mullions-transoms-construction with improved thermal insulation properties

Images

**Fig. 1****Publication data including kind & date**

EP2412884	A2	2012-02-01	EP2412884
EP2412884	A3	2013-07-03	EP2412884
EP2412884	B1	2016-11-23	EP2412884
DE102010032947	A1	2012-02-02	DE102010032947
DE102010032947	B4	2014-05-08	DE102010032947

**Abstract**

(EP2412884)

The structure has a connection element between a base profile and a pressing profile (21). The connection element is formed with a connection rod (9) and a profile (8) with a fastening channel (16). The rod is arranged at a side of the base profile, and the profile of the connection element is formed at the pressing profile. A fastening unit i.e. screw (22), is accommodated in the channel to connect the pressing profile with the profile of the connection element and is guided into the pressing profile. The profile of the connection element is connected with the rod by a clamping connection.

(From EP2412884 A2)

Inventors

LANKES GOTTFRIED

DREXLER MARTIN

Latest standardized assignees - inventors removed

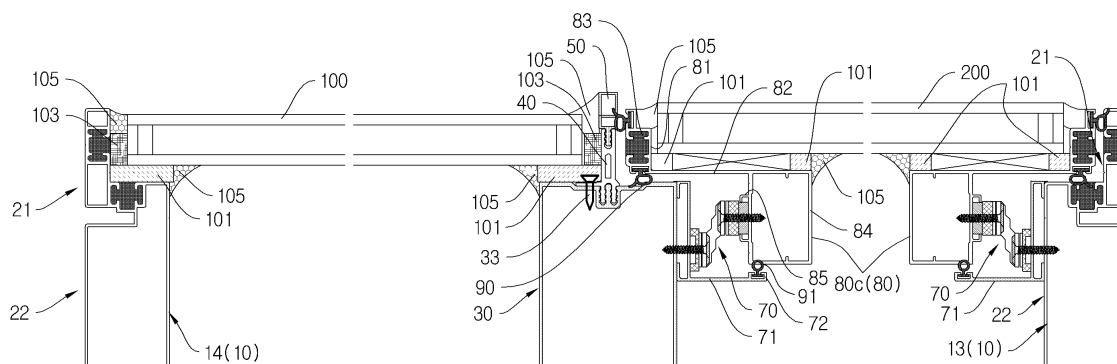
SCHINDLER FENSTER & FASSADEN

Family 20/20 - FAMPAT - ©Questel

Title

(KR101368355)

High-efficiency energy-saving curtain wall

Images**Publication data including kind & date**

KR20140004981	A	2014-01-14	KR20140004981
KR101368355	B1	2014-02-28	KR101368355

**Abstract**

(KR20140004981)

The present invention relates to an energy saving curtain wall of a high efficiency which includes an excellent thermal insulation function. The energy saving curtain wall includes a rectangular window frame installed in a building and glass installed at the window frame. The window frame is formed with aluminum bars, and the cross section of the window frame includes an L-shaped mounting unit supporting the edge of the glass. A first holding unit is installed on the bottom of the mounting unit, and a second holding unit is installed on the vertical surface of the mounting unit.

Inventors

PARK, YONG SOO

Latest standardized assignees - inventors removed

GUM GANG CHANG HO GI GONG

GEUMGANG CHANGHO ENGINEERING & CONSTRUCTION