

08-2015

DOORS, WINDOWS, SHUTTERS, OR ROLLER BLINDS, IN GENERAL; LADDERS

Türen, Fenster, Läden oder Rollblenden allgemein; Leitern

METHOD AND DEVICE FOR PRODUCING THERMOPLASTIC SPACERS

Beim Herstellen von Isolierglas, umfassend wenigstens zwei Glasscheiben (1) und wenigstens eine zwischen diesen angeordneten Abstandhalter aus thermoplastischem Material wird das Verschließen von Anfang (4) und Ende (5) des Stranges (2) aus thermoplastischem Material das thermoplastische Material mit Hilfe von an die Seitenflächen des Stranges (2) angelegten Backen (20, 21) verpresst. Im Bereich der so gebildeten Stoßstelle zwischen Anfang (4) und Ende (5) des den Abstandhalter bildenden Stranges (2) wird die Breite des Stranges (2) unter Erzeugen einer Vertiefung mit Hilfe eines Druckstempels (22) mit konvex gekrümmter Wirkfläche verkleinert. Durch diese Vertiefung ergibt sich nach dem Zusammenbau eines Isolierglas-Rohlings durch Aufsetzen einer zweiten Glasscheibe auf die freien Ränder des Stranges (2) eine Öffnung, die einen Druckausgleich beim nachfolgenden Verpressen des Isolierglas- Rohlings erlaubt.

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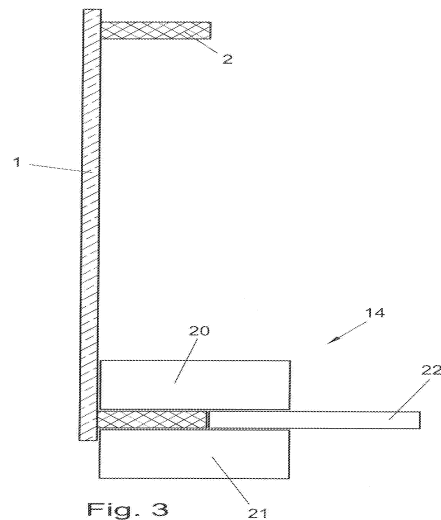
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Prio: AT 20140128 A 59/2014

Appl.No: AT2015000008

IPC: E06B 3/673 2006.01 (IA)



SMART FENESTRATION PRODUCT SYSTEM HAVING REMOTE CONTROL AND MANAGEMENT

This invention belongs to the area of access control, remote control, sensor systems and intelligent windows and doors system management via a mobile phone, web-based interface or with the use of short-range contactless technology. The proposed system and smart home fenestration product management and control procedure enables access control and management remotely with the use of a mobile phone, tablet or a web interface. The proposed system comprises several components: control electronics with autonomous photovoltaic power supply, built into fenestration product (window or door) frame, and with radio-frequency (RF) transmitter/receiver module; central control unit with radio-frequency transmitter/receiver module and wireless or wired network connection Wifi or LAN; mobile application for system management running on any mobile phone, tablet or another mobile device, or a web application for system management, running in any web browser on any device that enables web browsing.

Publication: [WO 2015113592 A1 20150806](#)

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Prio:

Appl.No: EP2014051622

IPC: E06B 9/68 2006.01 (IA)

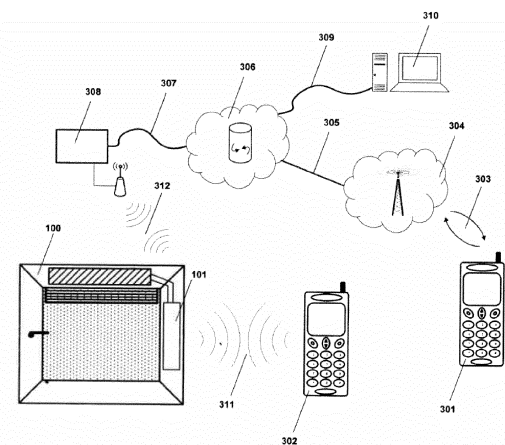


Figure 1

CLOSURE ARRANGEMENT

Die Erfindung betrifft eine Verschlussanordnung insbesondere für Schrankmöbel (1), mit wenigstens einem Verschlusselement (2), insbesondere Jalousie, Rollläden und dergleichen, welche im Bereich einer Öffnung eines Schrankmöbels von einer geschlossenen Position (GP) in eine offene Position (OP) und zurück bewegbar angeordnet ist, die parallel zueinander angeordnete Lamellen (20, 20') aufweist, mit wenigstens einem an der Öffnung (10) eines Schrankmöbels (1) angeordneten ersten Führungselement (3, 3') sowie wenigstens einem zweiten Führungselement (4), welches sich dadurch auszeichnet, dass in der geschlossenen Position (GP) des Verschlusselements wenigstens eine Lamelle über wenigstens ein Distanzelement (5) mit wenigstens einem, im Umlenkbereich des Verschlusselements angeordneten zweiten Führungselement in Wirkverbindung steht.

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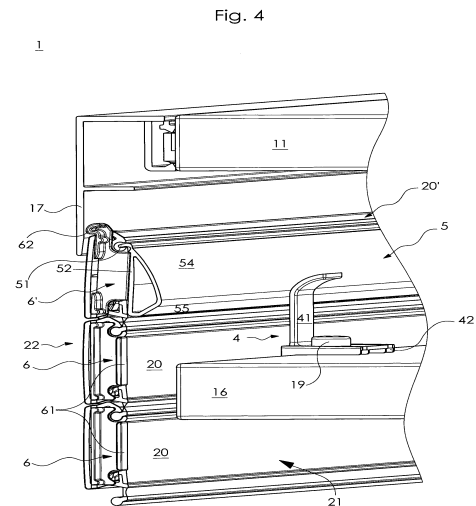
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Prio: DE 20140129 20 2014 100 381.9

Appl.No: EP2015000084

IPC: E06B 9/11 2006.01 (IA)



SECTIONAL DOOR WITH LIFTING MECHANISM

A sectional door (1) comprising a plurality of panels (2) which can be stacked on top of each other in a stacked state, and next to each other in a stored state; a drive system with a cable or chain for moving the bottom panel in the height direction; upright rails for guiding the panels in the stacked state; means for guiding the panels in the stored state comprising a worm wheel with helical groove for guiding the panels in the storage room; wherein the drive system further comprises a lifting mechanism for removing the upper panel from the stack, and for transferring it to the storage zone.

Publication: [WO 2015114066 A1 20150806](#)

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Prio: BE 20140129 2014/0051

Appl.No: EP2015051864

IPC: E06B 9/06 2006.01 (IA)

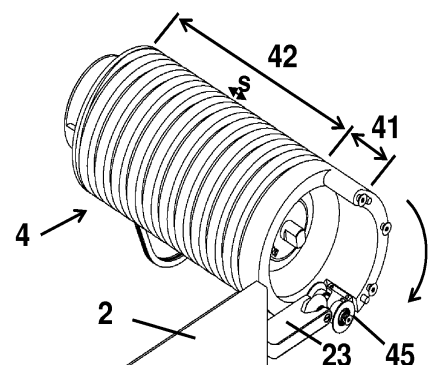


FIG. 11

TEMPLATE FOR FITTING A DOORWAY, PORTAL FRAME OR THE LIKE

The present invention relates to a template for fitting a doorway, a portal frame or the like, characterized in that it is made up of at least two parallel mounting plates (1) extending at each of the free ends of a connecting bar (2), said mounting plates (1) extending parallel to the longitudinal axis of the connecting bar (2) and comprising means capable of removably accepting threaded rods (3), each mounting plate (1) being fixed to the free end of the connecting bar (2) by means of a shoe (4) so that said mounting plates (1) extend below said connecting bar (2).

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Prio: FR 20140131 1450772

Appl.No: FR2015050101

IPC: E06B 11/02 2006.01 (IA)

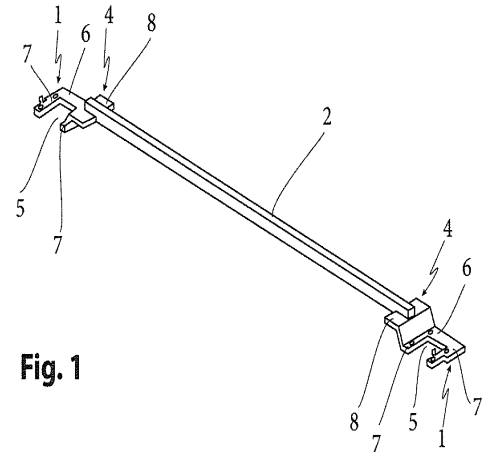


Fig. 1

BLINDS SYSTEM FOR INSTALLATION NEXT TO A WINDOW OR DOOR PANE OR WHICH CAN GENERALLY BE USED AS PARTITION

Blinds system (1) for installation next to a window or door pane (10) or which can generally be used as partition, the blinds system (1) consisting of a blinds (12) whose two ends are fixed to the pair of battens (4), a pair mutually opposed longitudinal and parallel guides (2), mutually operating blinds battens (4;5) by the means of magnets (8;8a) for shifting blinds (12), where at the end of the battens (4;5) are arranged end parts (3;3a) each containing at least one magnet (8;8a) where magnets (8; 8a) are arranged to be in the opposite magnet pole in order to mutually attract each other, where longitudinal guides (2) are arranged to receive end parts (3) of the battens (4). Longitudinal guides (2) for guiding blinds battens (4) and for holding the blinds (12) in one plane preventing their deflection have U shaped hollow square or rectangular cross-section outline. Longitudinal guides (2) comprise two mutually oppositely arranged longitudinally extending ribs (13). According to the preferred embodiment of the invention, longitudinal guides (2) comprise two mutually oppositely arranged ribs (13) within the inner hollow part of the longitudinal guide (2) forming T-section longitudinal groove for accommodating metal strip (7) along the length of the guide (2). Metal strip (7) attracts at least one magnet (8) arranged in end parts (3) of the pair of battens (4). Vertically or respectively horizontally shifting of the blinds (12) is provided by applying pressure on the batten (4) in order to distance said batten from the metal strip (7) and easily shift batten (4) and thus blind (12) in a desired position.

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Appl.No: HR2014000005

IPC: E06B 9/262 2006.01 (IA)

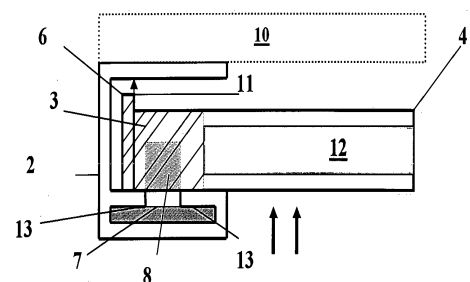


Fig. 2

SECURITY GRILLE AND SECURITY GRILLE SYSTEM

Security grille and security grille system The invention relates to a security grille system (1) for securing a passage at least partly. The security grille (2) is arranged to be brought from an extended state, in which the grille (2) can block the passage at least partly, into a retracted state, in which at least a part of the previously blocked part of the passage is unblocked. The security grille (2) comprises a multiplicity of bars (4), preferably substantially horizontally extending bars (4), connected by means of multiple elongated connecting elements for interconnecting respective bars (4). The security grille system (1) further comprises a chain connected to the grille (2), preferably a chain being flexible in only one dimension and/or being roller chain, and at least one chain limiting (28) member for at least locally limiting movement of the chain (19), e.g. in a direction in which it is flexible, such as to counteract that one or more links of the chain can be substantially moved away from a regular route along which the links move when the grille (2) is moved from its extended state to its retracted state or vice versa.

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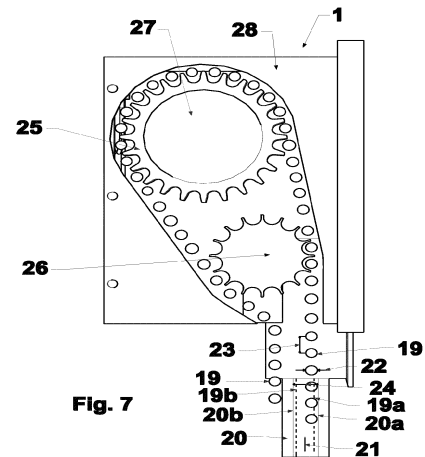
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Prio: NL 20140131 1040647, NL 20140415 2012620

Appl.No: NL2015050055

IPC: E06B 9/06 2006.01 (IA)



COVER FOR A WINDOW OR DOOR, SUCH AS A (ROLLER) BLIND, A (ROLLER) SHADE, A (ROLLER) SHUTTER, OR THE LIKE, AND SYSTEM COMPRISING A PLURALITY OF SUCH COVERS

The invention relates to a cover system for a window or door, such as a (roller) blind, a (roller) shade, a (roller) shutter, or the like, comprising: - a cover element, such as a roller, a shade, a shutter, or the like; - a rotatable element to which said cover element or a means for retracting and extending said cover element is wound, said rotatable element being rotatable in a first direction for winding up said cover element or said means for retracting and extending and in a second, opposite direction for unwinding said cover element or said means for retracting and extending; - a motor for rotatingly driving said rotatable element in the first or second direction; and - a (micro) processor configured for controlling said motor in such a way that said rotatable element is rotated with a first chosen speed such that a free end of the cover element is transported at a second chosen speed. The invention also relates to a system, comprising a plurality of cover systems for a window or door, such as a (roller) blind, a (roller) shade, a (roller) shutter, or the like. The invention further relates to a method for measuring the speed of the free end of a cover element of a cover system according to the invention, said method comprising the step of measuring said speed using said sensor. The invention also relates to a method for measuring the presence of the free end of a cover element of a cover system according to the invention at a chosen reference position, wherein said (micro)processor is configured for calculating the speed of the free end of the cover element based on said measured presence and rotational angle of said rotatable element.

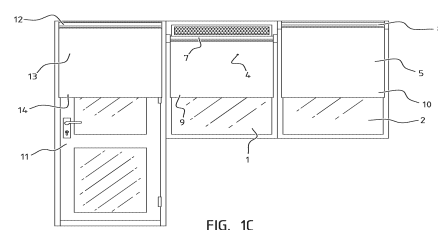
Publication: [WO 2015115895 A1 20150806](#)

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Prio: NL 20140130 2012171, NL 20140221 2012312

Appl.No: NL2015050060



IPC: E06B 9/68 2006.01 (IA)

COMPLIANT HERMETIC SEAL SYSTEM FOR FLAT GLASS PANEL ASSEMBLY

A hermetically-sealed enclosure including at least two wall elements of substantially congruent shapes, and a spacer system that defines an interior space between the wall elements. The enclosure also includes a bridge element that has one or more flexible metal foil layers extending between adjacent, respective edges of the wall elements to isolate the interior space from a surrounding environment. The bridge element is substantially free of step discontinuities in total thickness along the intended weld path, and the bridge element is bonded to each of the wall elements via an ultrasonic weld to form a continuous bond line.

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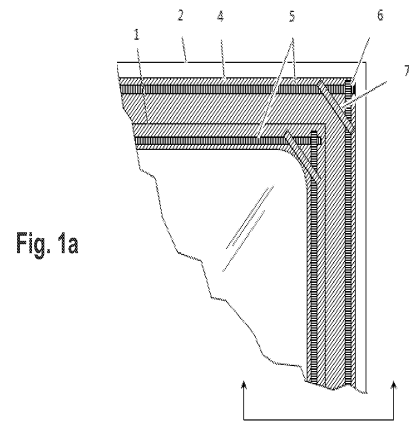
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Prio: US 20140203 61/935,250

Appl.No: US2015013687

IPC: E06B 3/66 2006.01 (IA)



ORIENTING DEVICE, SOLAR TRACKING SYSTEM AND METHOD THEREFOR

The present invention relates to a device for orienting slats relative to the sun, comprising: a housing, an elongate guide which is connected to the housing and in which the slats are engageable and guidable, drive means with which the slats, which extend substantially transversely of the elongate guide, are rotatably drivable about their longitudinal axis, control means configured to control the drive means such that the slats are orientable relative to the sun and rotational position determining means for determining the rotational position of the slats. The invention further relates to a solar tracking system for orienting slats relative to the sun comprising such an orienting device, and to a method for orienting slats with such an orienting device.

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Prio: NL 20140207 2012229, NL 20140805 2013304

Appl.No: NL2015050084

IPC: E06B 9/36 2006.01 (IA)

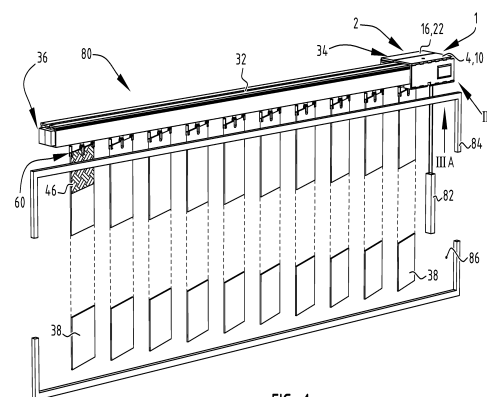


FIG. 1

STORAGE SYSTEM

Present invention relates to a storage and retrieval facility for storing and retrieving items (3) to and from an overhead storage area comprising a conveyor vehicle (1) for transporting the items (3) to and from the storage said conveyor vehicle (1) is equipped with a detachably integrated elevator (2) to lift the items (3) on the vehicle (1) and then carrying them to the storage area and also to lift the items (3) one above the other in the storage area and vice versa and in that the vehicle (1) is equipped to run in straight lines and change directions, wherein the conveyor vehicle (1) is a rail guided vehicle which is equipped to move along a network of rails comprising straight rails (4) and turning plates (5), the rails being mounted to an attic floor or directly on ceiling joists or on the plenum space above a dropped ceiling.

Publication: [WO 2015119505 A1 20150813](#)

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Prio: NO 20140205 20140140

Appl.No: NO2015050020

IPC: E06C 7/12 2006.01 (IA)

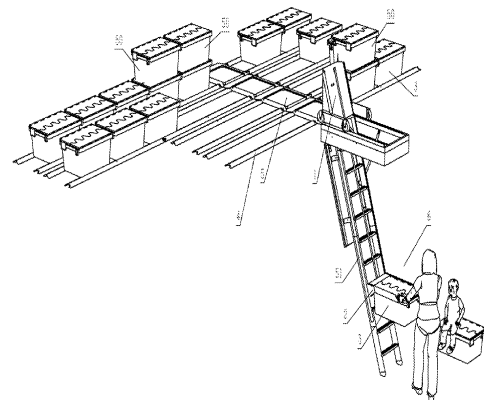


Fig. 1

FORCED AIR SMART WINDOWS

Certain embodiments pertain to forced air windows and methods of passing air through forced air electrochromic windows. In some cases, a forced air electrochromic window comprises an insulated glass unit comprising a first tinted or tintable lite, a third lite outside the insulated glass unit, a sealing member between the third lite and the first tinted or tintable lite, an interior space formed between the third lite and the insulated glass unit, at least two vent modules configured to control air flow to and from the interior space, and one or more air movement devices. The one or more air movement devices are for actively moving air through the interior space across the first lite to outside the interior space through the at least two vent modules. The air flows between the vent modules and the sealing member through one or more apertures in the sealing member.

Publication: [WO 2015120045 A1 20150813](#)

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Prio: US 20140204 61/935,771

Appl.No: US2015014453

IPC: E06B 7/00 2006.01 (IA)

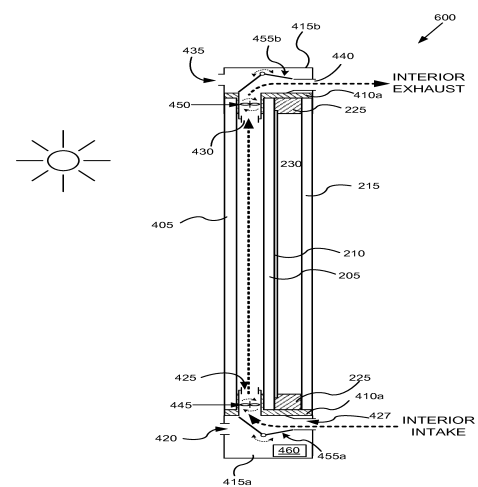


Fig. 6

CONNECTORS FOR SMART WINDOWS

This disclosure provides connectors for smart windows. A smart window may incorporate an optically switchable pane. In one aspect, a window unit includes an insulated glass unit including an optically switchable pane. A wire assembly may be attached to the edge of the insulated glass unit and may include wires in electrical communication with electrodes of the optically switchable pane. A floating connector may be attached to a distal end of the wire assembly. The floating connector may include a flange and a nose, with two holes in the flange for affixing the floating connector to a first frame. The nose may include a terminal face that present two exposed contacts of opposite polarity. Pre-wired spacers improve fabrication efficiency and seal integrity of insulated glass units. Electrical connection systems include those embedded in the secondary seal of the insulated glass unit.

Publication: [WO 2015120063 A1 20150813](#)

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Prio: US 20140204 61/935,757, US 20140606 14/363,769

Appl.No: US2015014479

IPC: E06B 3/677 2006.01 (IA)

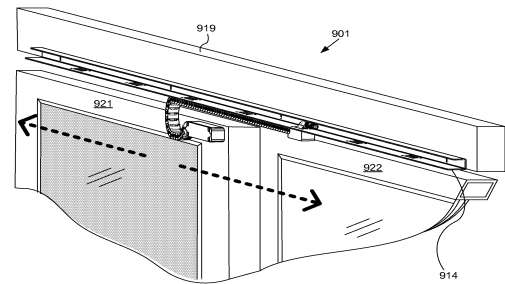


Fig. 9H

TWO-WAY DOOR WITH TWO-WAY DOOR CLOSER STRUCTURE

A two-way door with a two-way door closer structure comprises a three-in-one framework having two frames and one leaf, thus a unique door cheek structure which in fact features one frame and two leaves is formed, leading to flexible opening directions. Through the use of a door-in-door structure of the two-way door, two solid doors, i.e. a large door (A) and a small door (B) contained in the large door (A), are formed. Particularly, a two-way door closer (7) is used for controlling the functions of the two door leaves that are opened in a unidirectional manner. The door cheek can be opened and closed at will in a two-way manner, and the most flexible function that people push the door in any direction for escape and close the door for fire prevention can be achieved.

Publication: [WO 2015120743 A1 20150820](#)

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Prio: US 20140217 14/182,016

Appl.No: CN2014094769

IPC: E06B 3/36 2006.01 (IA)

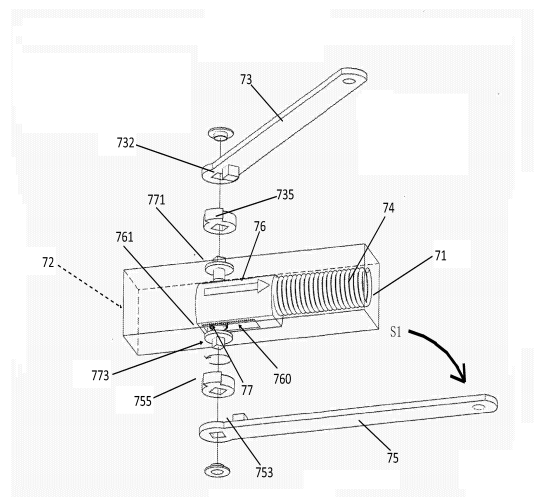


图12B / Fig.12B

FAST ROLL-UP DOOR COMPRISING A CURTAIN HAVING RESILIENT EDGES

The present invention concerns a fast roll-up door for closing an aperture (20), said roll-up door comprising: (a) a curtain (1) having two opposite and parallel lateral edges extending along a longitudinal direction, and two opposite end edges joining the lateral edges, each of the two lateral edges being held in, (b) a pair of elongated guiding rails (4) suitable for holding the lateral edges of the curtain, and for guiding them as the curtain is being wound or unwound about a rotating axle, X1, characterized in that, the curtain comprises at least one resilient portion (3a) extending parallel to said lateral edges, said resilient portion being suitable for reversibly stretching along a transverse direction, normal to the longitudinal direction, from a rest configuration, L0, to a stretched configuration, $L1 = L0 + \Delta L$; upon application of a pressure, P, applied substantially normal onto the surface of the curtain, and for returning substantially to its rest configuration, L0, upon release of said pressure.

Publication: [WO 2015121255 A1 20150820](#)

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Prio: SE 20140212 1450153-0

Appl.No: EP2015052763

IPC: E06B 9/13 2006.01 (IA)

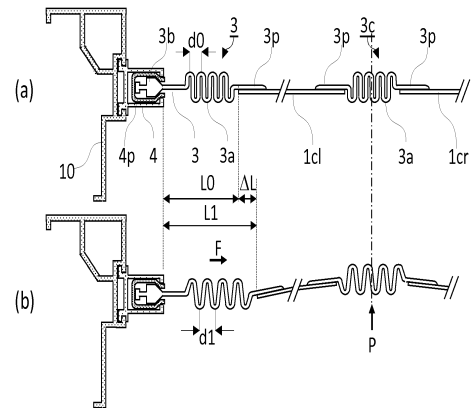


FIG.3

FAST ROLL-UP DOOR COMPRISING A CURTAIN SPEED DETECTION DEVICE

The present invention concerns a fast roll-up door for closing an aperture (20), said roll-up door comprising: (a) a curtain (1) having two opposite and parallel lateral edges extending along a longitudinal direction, and two opposite end edges joining the lateral edges, the curtain comprising a continuous bead (3b) extending parallel and adjacent to each of the two lateral edges, said continuous beads (3b) being held in, (b) a pair of elongated guiding rails (4) suitable for interacting with the continuous beads (3b) of the lateral edges of the curtain, for holding said lateral edges, and for guiding them as the curtain is being wound or unwound about a rotating axle, X1. The curtain comprises a plurality of windows (8) of same geometry and evenly distributed along a line the continuous beads (3b) of the lateral edges of the curtain and in that, the roll-up door further comprises a speed device (10) for detecting and monitoring during the winding and unwinding of the curtain about the rotating axle, X1, of the time sequence of passage of the windows (8) before a fixed point, and thus for determining the instantaneous translation speed of the curtain along the guiding rails (4).

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Prio: SE 20140212 1450154-8

Appl.No: EP2015052764

IPC: E06B 9/13 2006.01 (IA)

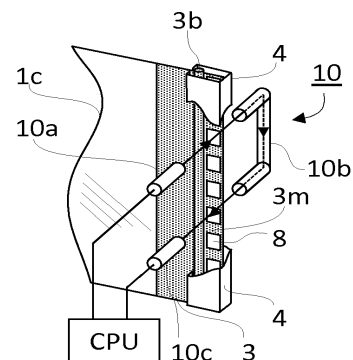


FIG.2

(b)

SOLID STRUCTURE SEPARATING OR DELIMITING TWO SPACES, COMPRISING A SEPARATION ELEMENT, SUCH AS A WALL OR PARTITION MADE FROM REINFORCED CONCRETE, AND AN OPENING FORMED IN SAID ELEMENT, AND ASSEMBLY COMPRISING SUCH A STRUCTURE AND A DOOR, OR WINDOW, MOUNTED IN THE OPENING

A solid structure separating or delimiting two spaces, comprising a separation element, such as a wall or a partition made from reinforced concrete, and an opening formed in said element, and an assembly comprising such a structure and a door, or a window, mounted in the opening. The present invention concerns a solid structure separating or delimiting two spaces comprising a separation element, such as a wall (1) or a partition made from reinforced concrete, and an opening formed in said element and intended to receive a door (2) or a window, said element (1) being made from a first-phase concrete that surrounds a metal frame, said opening comprising two opposing sides forming two reveals. The element (1) comprises at least two recesses (6) formed in at least one of the two reveals and each extending into the thickness of the element, and each recess (6) contains concrete or similar, without a reinforcing frame, in order to form an area for attaching a door, or a window, in the opening.

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Prio:

Appl.No: FR2014050323

IPC: E06B 1/60 2006.01 (IA)

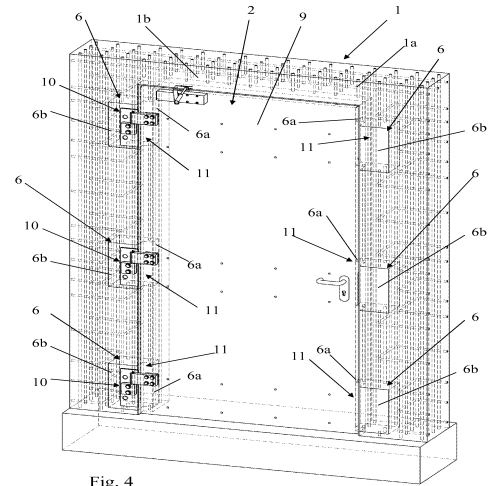


Fig. 4

LADDER BRACE

The present invention concerns a ladder brace. More particularly, but not exclusively, this invention concerns a ladder brace for engaging with the legs of a ladder thereby providing stability to the ladder. A ladder brace comprises a receiving portion for receiving and engaging with the stiles of a ladder, and at least one support member extending away from the receiving portion. The receiving portion comprises an aperture with a first inner edge and second inner edge, wherein the first inner edge is disposed away from and opposite to the second inner edge, such that when a ladder is placed within the receiving portion each ladder stile engages with the first inner edge and second inner edge.

Publication: [WO 2015121628 A1 20150820](#)

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Prio: GB 20140211 1402291.7

Appl.No: GB2015050349

IPC: E06C 7/42 2006.01 (IA)

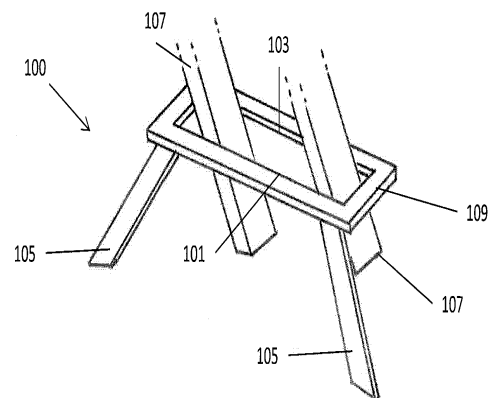


Fig 1a

SHIELDING FOR DOORS OR WINDOWS FRAME EQUIPPED WITH SIDE-SCROLLING LATERAL BOX

Shielding (100) for doors or windows frame equipped with side-scrolling lateral box free of lower guide comprising:

- A lateral box (102) vertically arranged;
- a net (101) self-enveloping within said lateral box (102);
- an upper fixed guide (103) able to guide the movement of said net (101);
- a handle bar (108) fixed to the free end of said net (101);
- A movable carriage (114) having modules (124) linked together in which the lower portion of the net (101) is attached. The modules (124), linked together in two rows, are able to slide, starting from the lateral box (102), on a lower profile (125) of the shielding (100) coupled between the lateral box (102) and the handle bar (108), and on a lower portion of an outer groove (108a, 108b) of the handle bar (108).

Publication: [WO 2015121817 A1 20150820](#)

Applicant: APZ SISTEMI SRL, Contrada Tre Ponti, I-87011 Cassano Allo Ionio (cs), IT

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Prio: IT 20140217 CZ2014A000003

Appl.No: IB2015051048

IPC: E06B 9/58 2006.01 (IA)

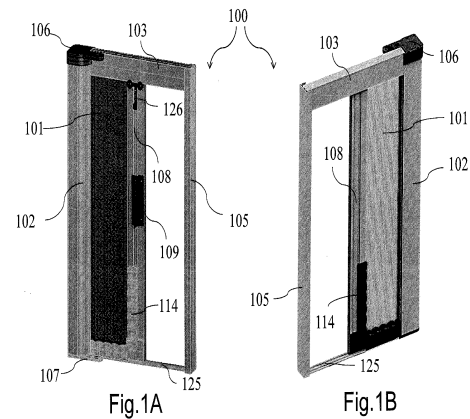


Fig.1

WATERPROOF DOOR

[Problem] To provide a waterproof door comprising a panel shutter that can reliably exhibit water sealing functionality. [Solution] Provided is a waterproof door, wherein: the waterproof door comprises a shutter curtain that closes a building opening and partitions the same into a first side and a second side, a pair of guiding bodies (2) that receive both ends, in the width direction, of the shutter curtain, and a horizontal pressing means (8) that presses the fully closed shutter curtain in the horizontal direction; hydraulic pressure from the first side to the second side is applied to the fully closed shutter curtain; the shutter curtain that is in the fully closed state has a first face that faces the first side and a second face that faces the second side; the guiding bodies (2) comprise a first side wall (20) of the first side and a second side wall (21) of the second side, and a first water-stopping elastic member (24) that extends in the height direction is provided on the second side wall (21) so as to be opposite the second face of the shutter curtain that is in the fully closed state; and the horizontal pressing means presses the shutter curtain that is in the fully closed state from the first side toward the second side.

Publication: [WO 2015122106 A1 20150820](#)

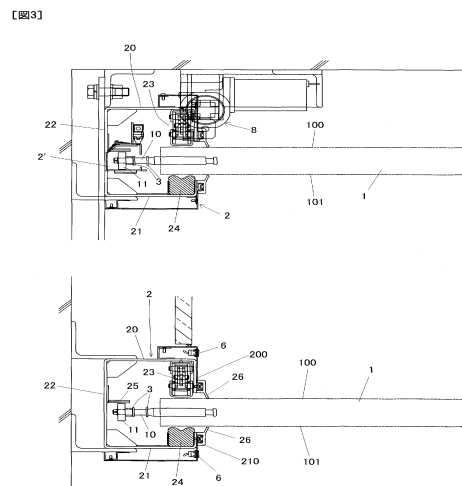
Applicant: SANWA SHUTTER CORPORATION, 3-5, Shingashi 2-chome, Itabashi-ku, Tokyo, 1750081, JP

Inventor: TSUJI, Takeo, c/o Sanwa Shutter Corporation, 3-5, Shingashi 2-chome, Itabashi-ku, Tokyo, 1750081, JP; MAKINO, Masakazu, c/o Sanwa Shutter Corporation, 3-5, Shingashi 2-chome, Itabashi-ku, Tokyo, 1750081, JP

Prio: JP 20140214 2014-026204, JP 20140214 2014-026205, JP 20140214 2014-026206, JP 20140314 2014-051572, JP 20140314 2014-051573

Appl.No: JP2014084245

IPC: E06B 5/00 2006.01 (IA)



INTEGRATED DOOR FRAME

Integrated door frame for internal door, which central portion forming door frame construction is element made of wood, plywood, wood-derivative panel or plastic, characterized in that, door frame construction (1) from outer side, parallel to the door rough opening walls plane has profile element (3) or (5) from door leaf side and profile element (4) from the opposite side of the door leaf, made of metal or plastic, connecting additional door frame construction (1) with wall (2) around door rough opening and has width adjusted to the thickness of the said wall.

Publication: [WO 2015122787 A1 20150820](#)

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GDAŃSKI, PL

Prio: PL 20140211 P.407143

Appl.No: PL2015000017

IPC: E06B 1/32 2006.01 (IA)

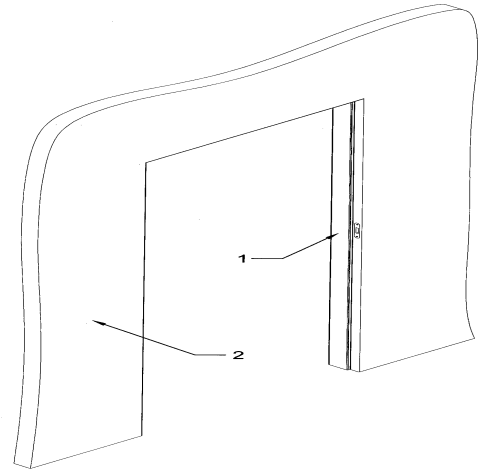


Fig. 1

AGILITY LADDER

An agility ladder has a plurality of rungs including first and second rungs. A left link assembly has ends pivotally attached to left ends of the first and second rungs, and a right link assembly has ends pivotally attached to right ends of the first and second rungs. The left and right link assemblies each include first and second links having equal lengths, with the first and second links joined at a link pivot joint which allows the first and second links to form an angle between them of less than 180 degrees.

Publication: [WO 2015123218 A1 20150820](#)

Applicant: PRO PERFORMANCE SPORTS, L.L.C., 2081
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John, 2081 Faraday Ave., Carlsbad, California
92008, US; BELL, Kash, Oris, 2081 Faraday
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Prio: US 20140213 61/939,553, US 20140814
14/459,744

Appl.No: US2015015265

IPC: E06C 1/38 2006.01 (IA)

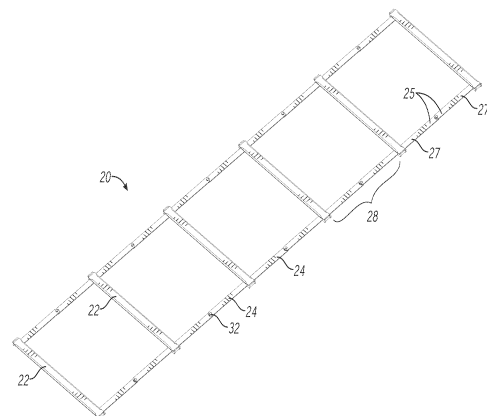


FIG. 1

PANEL SHUTTER WITH A DEFORMATION DETECTION ARRANGEMENT

The invention relates to a panel shutter (10) for opening and closing a doorway (15) having a door blade (11), the door blade (11) comprises several rigid shutter elements (12) which are hinged with each other. Further damage to the panel shutter (10) caused by a deformation (22) of the door blade (11) and/or at least one shutter element (12) is avoided by a detection arrangement (24) for detecting a deformation (22) of at least one shutter element (12).

Publication: [WO 2015124572 A1 20150827](#)



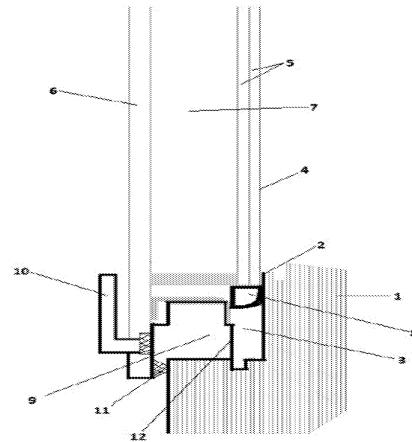
Applicant: ASSA ABLOY ENTRANCE SYSTEMS AB, Box 131,
S-261 22 Landskrona, SE
Inventor: FREDE, Friedhelm, Auf dem Hofdrosten 12b,
59597 Erwitte, DE
Prio: SE 20140219 1450205-8
Appl.No: EP2015053321
IPC: E06B 9/88 2006.01 (IA)

IMPROVED TWO-PART WINDOW

The invention relates to an improved two-part window of the type made of a frame of micro-laminated wood and various sheets of glass with an integrated air chamber, said window consisting of a frame made of micro-laminated types of wood which are interconnected by strong adhesives, and a closing wing consisting of, from the outside to the inside, a block of two laminated sheets of glass and a larger sheet of thick tempered glass, which are separated by a vacuum chamber.

Publication: [**WO 2015124808 A1 20150827**](#)

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C/Yucatan 16, E-28231 Madrid, ES
Prio: ES 20140218 P 201430217
Appl.No: ES2014070988
IPC: E06B 3/02 2006.01 (IA)

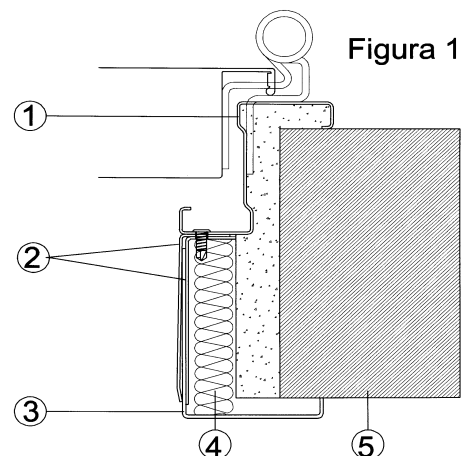


TELESCOPIC WALL-CLAMPING FRAME

In order to achieve an adjustment of greater than 65 millimetres and improve the installation of the product, the invention relates to an assembly formed by a frame to which the pressure angle is fixed, said pressure angle comprising two steel profiles that are joined at a minimum distance by means of welding points. The internal profile is L-shaped and the external profile is similar to the first having an end fold, this pressure angle suitably guiding, housing and securing the wall clamp by exerting pressure on same, such that the assembly is adapted to a wall of variable thickness and creates a space for positioning different insulating materials. The invention also relates to an embodiment wherein the frame and a part of the pressure angle form a single element that is joined to the second part of the pressure angle by screws, thereby supporting the wall clamp in a similar manner to the first embodiment.

Publication: [**WO 2015124809 A1 20150827**](#)

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Prio: ES 20140224 U201400197
Appl.No: ES2015000014
IPC: E06B 1/20 2006.01 (IA)



ACTIVE BUILDING WINDOW

Active window containing a Venetian blind made by N slats parallel to each other, wherein said slats comprise an active material capable of varying their light throughput.

Publication: [WO 2015125035 A1 20150827](#)

Applicant: SAES GETTERS S.P.A., Viale Italia 77, I-20020 Lainate MI, IT

Inventor: BONUCCI, Antonio, Via Chiarelli 8/M, I-20151 Milano MI, IT

Prio: IT 20140220 MI2014A000245

Appl.No: IB2015050463

IPC: E06B 9/26 2006.01 (IA)

LIGHTING ADJUSTABLE ROLL BLIND

The present invention relates to a roll blind, which includes a winding roll device at the bottom end of a curtain paper for winding the curtain paper which is vertically suspended, and a shaft for lifting and lowering the winding roll device at the bottom end by winding or releasing a traction string which vertically extends from a head rail side of the upper end portion, the roll blind comprising: an opening and closing gear which rotates in conjunction with the shaft and has a cylindrical drum extending in the axial direction; a friction spring which is fitted into the outer periphery of the drum and has a protruding end that protrudes in the radial direction; and a tube wheel which rotates in association with the friction spring about an insertion groove part into which the protruding end is inserted. The curtain paper comprises: a front paper and a rear paper which are arranged back and forth in the horizontal direction at a regular interval; and a blind paper which connects between the front paper and the rear paper, wherein the rear paper includes an upper end portion which is fixed relatively to the head rail side so that the location is fixed in the horizontal direction, wherein the front paper includes an upper end portion which moves in the circumferential direction in accordance with the rotation of the tube wheel so that the horizontal and vertical intervals between the front paper and the rear paper are simultaneously adjusted, and wherein the adjustment of the horizontal and vertical intervals between the front paper and the rear paper leads to adjustment of the tilt angle of the blind paper, so that it is possible to adjust lighting.

Publication: [WO 2015126070 A1 20150827](#)

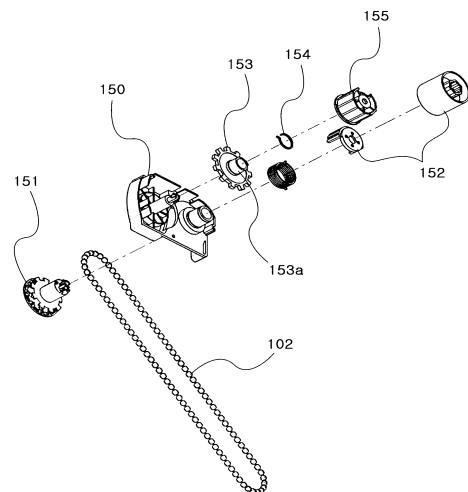
Applicant: AN, Eun Ro, Cheonggu Villa 602-201, 9, Beolmal-ro 50beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do 463-836, KR

Inventor: AN, Eun Ro, Cheonggu Villa 602-201, 9, Beolmal-ro 50beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do 463-836, KR

Prio: KR 20140218 10-2014-0018184, KR 20140529 10-2014-0064783

Appl.No: KR2015000869

IPC: E06B 9/34 2006.01 (IA)



MULTI-PANE GLASS UNIT HAVING SEAL WITH ADHESIVE AND GAS-RESTRICTIVE COATING LAYER

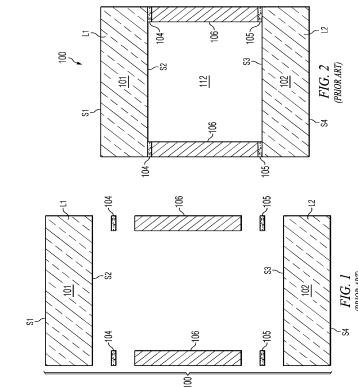
An insulated glass unit (IGU) comprises a first pane of a transparent material and a second pane of a transparent material. The second pane is spaced apart from the first pane to define a cavity therebetween. At least one of a spacer and an array of stand-off members is disposed between the first and second panes to maintain separation therebetween. A first adhesive layer forms at least a portion of a gas-tight connection between the first pane and the second pane. A highly gas-restrictive coating is disposed over the adhesive layer, where the coating is an inorganic layer.

Publication: [US 20150218876 A1 20150806](#)

Applicant: EVERSEALED WINDOWS, INC., Evergreen, US
Inventor: SETH A., MILLER, ENGLEWOOD, US; DAVID H., STARK, EVERGREEN, US; WILLIAM H., FRANCIS, IV, BOULDER, US; VISWANADHAM, PULIGANDLA, FLOWER MOUND, US; EDWARD N., BOULOS, TROY, US; JOHN, PERNICKA, FORT LAUDERDALE, US

Prio:
Appl.No: US14618887
IPC: E06B 3/66 2006.01 (IA)

Patent Application Publication Aug. 6, 2015 Sheet 1 of 26 US 2015/0218876 A1



INSULATED GLAZING AND METHOD OF PRODUCING INSULATED GLAZING

Insulated glazing includes a first glass substrate including a first surface, a second glass substrate including a second surface facing the first surface across a gap, and a sealing member hermetically sealing the gap. The sealing member includes a metal member of a frame shape including third and fourth surfaces, and first and second joining layers. The first joining layer is placed in a frame shape on the first surface of the first glass substrate. The second joining layer is placed in a frame shape on the second surface of the second glass substrate, and is in a position offset from the position of the first joining layer when viewed in a thickness direction of the insulated glazing. The first joining layer is bonded to part of the third surface of the metal member. The second joining layer is bonded to part of the fourth surface of the metal member.

Publication: [US 20150218877 A1 20150806](#)

Applicant: Asahi Glass Company, Limited, Tokyo, JP; Asahi Glass Company, Limited, Tokyo, JP
Inventor: Koji, KAWAHARA, Tokyo, JP; Ryo, KANNO, Tokyo, JP; Keisuke, KATO, Tokyo, JP

Prio: JP 20121015 2012-228423
Appl.No: US14686995
IPC: E06B 3/66 2006.01 (IA)

Patent Application Publication Aug. 6, 2015 Sheet 1 of 6 US 2015/0218877 A1

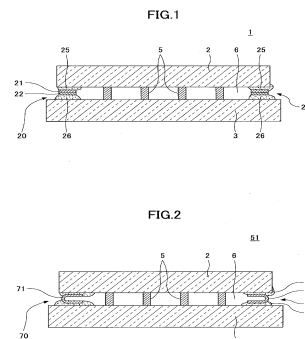


PLATE FOR PROTECTING DOOR EDGE ADJACENT HARDWARE

A door assembly for presenting a closeable doorway opening includes a door and a door reinforcement brace. The door is operable to be swingably mounted for swinging movement into and out of a closed position in which the door is located generally within the doorway opening. The door presents opposite interior and exterior surfaces and a perimetric edge surface. The brace is attached to the door to overlies at least portions of the interior and edge surfaces to reinforce the door, with no part of the door reinforcement brace extending exteriorly beyond the exterior surface of the door.

Publication: [US 20150218878 A1 20150806](#)

Applicant: EDWARD WAYNE, INC., Overland Park, US;
Edward Wayne, Inc., Overland Park, US

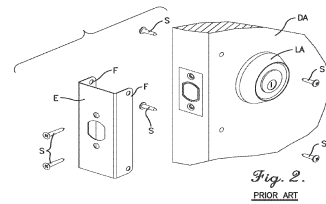
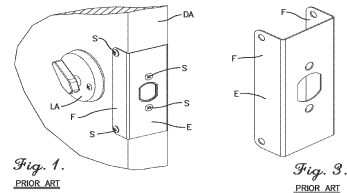
Inventor: Ronald E., Olberding, Kansas City, US; David
W., Allen, Overland Park, US

Prio:

Appl.No: US14172455

IPC: E06B 3/88 2006.01 (IA)

Patent Application Publication Aug. 6, 2015 Sheet 1 of 8 US 2015/0218878 A1



END CAP FOR A RAIL FOR A WINDOW COVERING

An end cap for use on a rail for a covering for an architectural opening. At least one securement leg secures the end cap to the rail.

Publication: [US 20150218879 A1 20150806](#)

Applicant: HUNTER DOUGLAS INC., Pearl River, US;
Hunter Douglas Inc., Pearl River, US

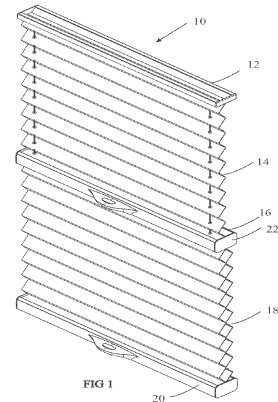
Inventor: Richard N., Anderson, Whitesville, US

Prio:

Appl.No: US14685646

IPC: E06B 9/17 2006.01 (IA)

Patent Application Publication Aug. 6, 2015 Sheet 1 of 15 US 2015/0218879 A1



SYSTEM FOR BIASING SHEET OF MATERIAL TO GATHER IN PREDETERMINED DIRECTION

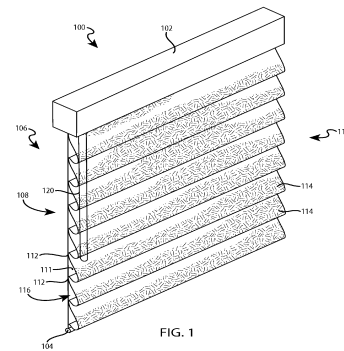
A system for biasing or encouraging a sheet of material to gather in one direction when one edge of the sheet of material is moved toward an opposite edge of the sheet of material is provided. A plurality of strips of material may extend along a face of the sheet of material and may be laminated to the face of the sheet of material. The plurality of strips of material may overlap each other and may define stiffened regions extending along the overlapped interface between the plurality of strips of material. When the covering is moved from an extended position to a retracted position, the sheet of material may gather in loops of material that may have apexes defined at or adjacent the overlapped interfaces of the plurality of strips of material.

Publication: [US 20150218880 A1 20150806](#)

Applicant: Hunter Douglas Inc., Pearl River, US
Inventor: Jeff S., Giest, Arvada, US; Gary E., Moss, Denver, US; Galen B., Rhodes, Henderson, US; Kent A., Smith, Broomfield, US; Brian C., Wilson, Brighton, US

Prio:
Appl.No: US14611934
IPC: E06B 9/262 2006.01 (IA)

Patent Application Publication Aug. 6, 2015 Sheet 1 of 7 US 2015/0218880 A1



CABLE GUIDED SHADE SYSTEM

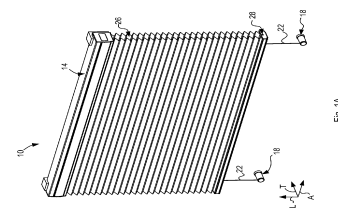
A cable guided shade system can include a head rail at least one guide cable anchor spaced from the head rail, and at least one guide cable that is fixed to the head rail and extends to the guide cable anchor. The guide cable anchor is configured such that the guide cable can be tensioned at the guide cable anchor. The system further includes a covering material that is fixed to the head rail and is configured to move along the guide cable between an open position and a closed position.

Publication: [US 20150218881 A1 20150806](#)

Applicant: Lutron Electronics Co., Inc., Coopersburg, US
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Prio:
Appl.No: US14169522
IPC: E06B 9/38 2006.01 (IA)

Patent Application Publication Aug. 6, 2015 Sheet 1 of 10 US 2015/0218881 A1



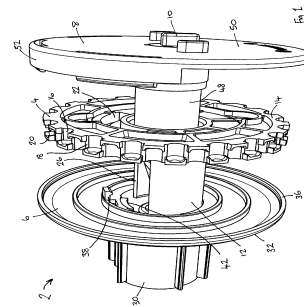
Control Assembly for a Roller Blind

A control assembly for a roller blind, the assembly including a chain wheel adapted to be driven by an operating chain; a drive bush; and a locking pin, wherein at least one of the chain wheel and drive bush includes a coupling element which in use couples the chain wheel to the drive bush such that axial displacement of the drive bush results in a corresponding axial displacement of the chain wheel, but that relative rotational displacement between the chain wheel and the drive bush is permitted through an arc defined between a pair of opposed stops which are carried by the other of the chain wheel and the drive bush; and wherein the locking pin passes axially through the chain wheel and the drive bush, the locking pin including at one end thereof a pair of opposed legs and at least one leg includes a locking lug adapted to engage a stop surface of the drive bush.

Publication: [US 20150218882 A1](#) [20150806](#)

Applicant: Louver-Lite Limited, Hyde, GB
Inventor: Andrew, Greening, Sandbach, GB
Prio: GB 20120903 1215667.5, WO 20150302
PCT/GB2013/052290
Appl.No: US14425191
IPC: E06B 9/42 2006.01 (IA)

Patent Application Publication Aug. 6, 2015 Sheet 1 of 7 US 2015/0218882 A1



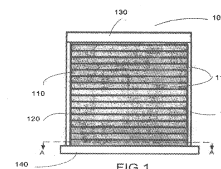
ALARM SYSTEM FOR ROLLING SHUTTERS

An alarm system for rolling shutter comprised of plurality of alarm sensors is described. An alarm sensor is comprised of a conductive wire that is threaded within a slat and is connected in both sides to slat edge elements. The slat edge elements have a moving electrical contact that can be pulled out towards the inner wall of the shutter rail by a magnet. In selected heights along the rails, on both rails, a rail electric element comprising a magnet and a rail electrical contact are installed. A wire is connected from each rail electrical contact to an alarm control box. When the slat, which includes the slat-wire, is positioned in the same height as the rail electric elements, the moving contact on the slat makes a contact with the rail electric contact, thus creating a continuous electrical circuit from one rail electrical contact, through the slat, to the second rail electric contact. An attempt to move a slat, move the rails or cut the slat, will open the electrical circuit and generate an alarm, signal. An attempt to by-pass the electrical circuit is detected by the change in the line resistance.

Publication: [US 20150218883 A1](#) [20150806](#)

Applicant: B.M.S.INVESTMENT GROUP (H.A.S.) LTD.,
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Inventor: Benny, Hanuka, Haifa, IL
Prio: IL 20121009 222296, WO 20150219
PCT/IL2013/000075
Appl.No: US14422362
IPC: E06B 9/86 2006.01 (IA)

Patent Application Publication Aug. 6, 2015 Sheet 1 of 7 US 2015/0218883 A1



STABILISING LEG ASSEMBLY FOR A LADDER

A stabilising leg assembly (1) for a ladder, having a bracket (9) for attachment to a ladder stile (5), and a support leg (13) pivotally attached to the bracket (9) about a first axis (LA). The bracket is attached to the stile (5) such that the bracket is pivotable relative to the stile about a second axis (BA) that is substantially perpendicular to the first axis. A single support strut (15) has a first end attached or attachable to the support leg, and a second end for attachment to a stile. The strut is movable relative to the support leg.

Publication: [US 20150218884 A1 20150806](#)

Applicant: Christopher John, Kempthorne, Hamilton, NZ
Inventor: Christopher John, Kempthorne, Hamilton, NZ
Prio: NZ 20140131 620569
Appl.No: US14606114
IPC: E06C 1/20 2006.01 (IA)

Patent Application Publication Aug. 6, 2015 Sheet 1 of 8 US 2015/0218884 A1

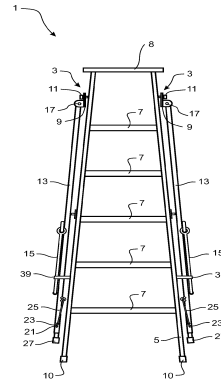


FIGURE 1

GLAZING WITH EMBEDDED MICROSTRUCTURES FOR DAYLIGHTING AND SEASONAL THERMAL CONTROL

A glazing for daylighting and seasonal thermal control, the glazing including a pane defined between an outside-oriented interface and an inside-oriented interface, the pane comprising a first component and a second component, wherein the first component has a parabolic reflective surface with a focus point located on the second component.

Publication: [US 20150225994 A1 20150813](#)

Applicant: ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL), Lausanne, CH; ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL), Lausanne, CH
Inventor: André, Kostro, Lausanne, CH; Andreas, Schüler, Lausanne, CH
Prio: EP 20120807 12179596.7, WO 20150206 PCT/IB2013/056459
Appl.No: US14420163
IPC: E06B 3/67 2006.01 (IA)

Patent Application Publication Aug. 13, 2015 Sheet 1 of 6 US 2015/0225994 A1

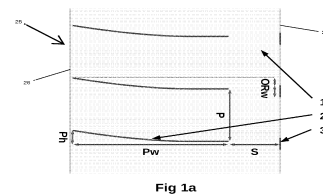


Fig 1a

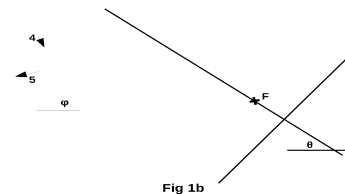


Fig 1b

MOLDED PLASTIC ACCESS DOOR

A molded access door assembly for an access opening in a wall or ceiling is provided including a molded frame having a frame channel to form the outside of the access door assembly, the frame channel having spaced apart exterior and interior walls joined at the top edge by a top wall and having a lip extending from the bottom edge of the inner wall into the interior of the molded access door assembly to define an opening. The lip provides a stop rest for the door in the closed position has a means of attaching the access door assembly to the wall or ceiling. The assembly also includes a door having a top surface and a first part of a hinge assembly along one edge of the top surface which cooperates with a matching second part of the hinge assembly along one edge of the frame channel to allow the door to move between an open and a closed position.

Publication: [US 20150225995 A1 20150813](#)

Applicant: IVM Homestyle Ltd., Mississauga, CA; IVM Homestyle Ltd., Mississauga, CA

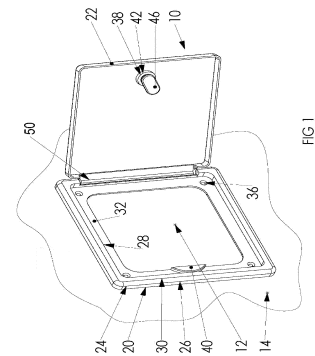
Inventor: Vitaliy, Ivasiv, Mississauga, CA; Igor, Ivasiv, Mississauga, CA

Prio:

Appl.No: US14523472

IPC: E06B 5/01 2006.01 (IA)

Patent Application Publication Aug. 13, 2015 Sheet 1 of 4 US 2015/0225995 A1



BLINDS SYSTEM FOR INSTALLATION BETWEEN TWO INSULATED WINDOW PANES

Present invention refers to the blinds that are found in a closed space between two window panes (2; 3), and which are regulated by magnets from the outside, particularly to the guiding means between two window panes (2;3). Magnets are placed between window panes in the inner battens (4.1;7) while controlling battens (5; 6) are arranged from the outer side of the inner window pane (3) and serve for lifting or lowering of the blinds. At the end of the battens (5, 6, 7 and 4.1) are arranged end parts (4.2) and (5.6) containing magnets (8a, 8b, 18a and 18b). Each inner top/bottom contact magnets (8a; 18a) are fitted to be in the opposite magnet pole in relation to the poles of the external top/bottom contact magnets (8b; 18b) on the external top and bottom regulating batten (5; 6). Magnets housed in the end parts (5.6) of the external battens (5; 6) attract magnets housed in the end parts (4.2) of the inside battens (7; 4.1). After installing the inner part of the blinds, the space between the window panes is permanently sealed from the environment. One of the characteristics of the invention is frame of the insulated window glass that consists of two pair of aluminum profiles where on the upper and lower end of the insulated window glass are arranged mutually opposed profiles (1.1) and laterally are arranged mutually opposed rails (1.2). Lateral rails (1.2) are designed in a manner that contain axle pin 4.4 that gets into keyway (4.5) positioned on contact surface of the end parts (4.2) whereby rails (1.2) have function of guides and spacers at the same time. By present technical solution, any contact of external/internal batten assembly and blinds (12) with the window glass is prevented thus preserving in good condition of applied Low-E coating on the any side of the window pane.

Publication: [US 20150225996 A1 20150813](#)

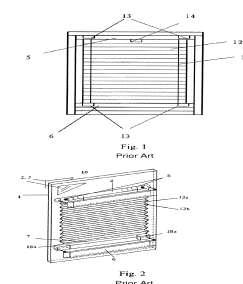
Applicant: Boran, Glavas; Zoran, Maksan, Biogradna moru, HR

Inventor: Zoran, Maksan, Biogradna moru, HR

Prio: WO 20120827 PCT/HR2012/000018

Appl.No: US14424410

Patent Application Publication Aug. 13, 2015 Sheet 1 of 6 US 2015/0225996 A1



IPC: E06B 9/264 2006.01 (IA)

RAISING/LOWERING MECHANISM FOR A ROLLER BLIND

A raising/lowering mechanism for a roller blind (10) comprising a main body portion (40), a rotatable output member (52) to which, in use, a roller-engaging stub axle (14) can be operatively connected to effect rotation, in use, of an attached roller, a rotatable input shaft (56) geared to the rotatable output member (52) such that, in use, rotation of the input shaft (56) causes the rotatable output member (52) to rotate, wherein the rotatable output member (52) is accessible from opposite sides of the main body portion (40) to permit, in use, the roller-engaging stub axle (14) to be operatively connected thereto from either side of the mechanism (10). The stub axle (14) suitably comprises a roller-engaging end (24) and a drive member-engaging end, and radially resilient features (20) to provide, in use, a friction fit or gripping connection between it and the roller. The roller-engaging end (22) and the output member-engaging end of the stub axle (14) are suitably separate components interconnected by a clutch arrangement (28, 30, 32).

Publication: [US 20150225997 A1 20150813](#)

Applicant: R. SOPER LTD, Barnoldswick, GB
Inventor: Ben, Soper, Barnoldswick, LS
Prio: GB 20120719 1212798.1, WO 20150119
PCT/GB2013/051837
Appl.No: US14415733
IPC: E06B 9/42 2006.01 (IA)

Patent Application Publication Aug. 13, 2015 Sheet 1 of 3 US 2015/0225997 A1

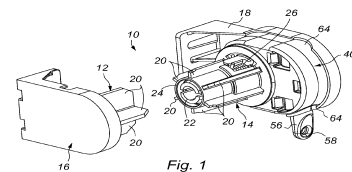


Fig. 1

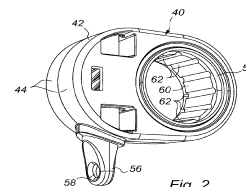


Fig. 2

Screen Window for Garage Door

A sliding screen window for a garage door may be built into new garage doors or may be sold separately for installation on existing garage doors. The window would generally, but not necessarily, be installed on the top panel of a garage door. The screen panel may be oblong in shape or may feature a decorative pattern of screened and non-screened shapes. Behind the screen is a plurality of transparent or opaque sliding plates that may be moved aside to allow air to flow through the garage door.

Publication: [US 20150225998 A1 20150813](#)

Applicant: Carla, Muto, Plainfield, US
Inventor: Carla, Muto, Plainfield, US
Prio:
Appl.No: US14694939
IPC: E06B 9/52 2006.01 (IA)

Patent Application Publication Aug. 13, 2015 Sheet 1 of 4 US 2015/0225998 A1

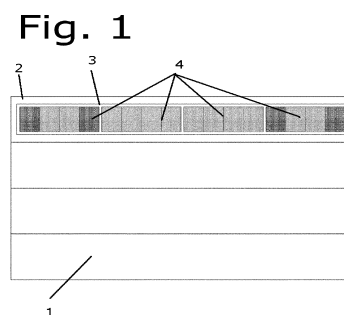


Fig. 1

AUTOMATED SHADE CONTROL SYSTEM UTILIZING BRIGHTNESS MODELING

Automated shade systems comprise motorized window coverings, sensors, and controllers that use algorithms to control operation of the automated shade control system. These algorithms may include information such as: 3-D models of a building and surrounding structures, shadow information, reflectance information, lighting and radiation information, ASHRAE clear sky algorithms, log information related to manual overrides, occupant preference information, motion information, real-time sky conditions, solar radiation on a building, a total foot-candle load on a structure, brightness overrides, actual and/or calculated BTU load, time-of-year information, and microclimate analysis. Modeled brightness information may be utilized to control shades.

Publication: [US 20150225999 A1 20150813](#)

Applicant: MechoShade Systems, Inc., Long Island City, US

Inventor: Joel, Berman, Hewlett, US; Jan, Berman, Wilton, US; Alex, Greenspan, Hempstead, US; Stephen P., Hebeisen, Somers, US; Muthukumar, Ramalingam, Phoenix, US

Prio:

Appl.No: US14692868

IPC: E06B 9/68 2006.01 (IA)

Patent Application Publication Aug. 13, 2015 Sheet 1 of 14 US 2015/0225999 A1

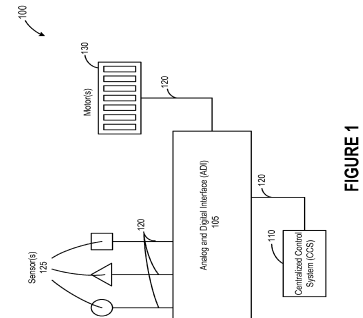


FIGURE 1

DRIVE ARRANGEMENT

A drive arrangement (1) for actuating a roller sun blind (21) of a motor vehicle has an actuation rod (2) with external thread (3) and a hollow cylinder (4) with internal thread (5). The actuation rod (2) is arranged coaxially in the hollow cylinder (4). The external thread (3) of the actuation rod (2) meshes with the internal thread (5) of the hollow cylinder (4). Thus, relative rotation of actuation rod (2) and hollow cylinder (4) displaces the actuation rod (2) axially relative to the hollow cylinder (4). The actuation rod (2) is guided in non-rotatable fashion, and the hollow cylinder (4) can be rotated by a drive (6).

Publication: [US 20150226000 A1 20150813](#)

Applicant: Dr. Ing. h.c. F. Porsche Aktiengesellschaft, Stuttgart, DE

Inventor: Michael, Johann, Tamm, DE; Rainer, Hilt, Saarlouis, DE; Jonas, Kirchner, Marktheidenfeld, DE

Prio: DE 20140212 10 2014 101 697.1

Appl.No: US14619282

IPC: E06B 9/70 2006.01 (IA)

Patent Application Publication Aug. 13, 2015 Sheet 1 of 2 US 2015/0226000 A1

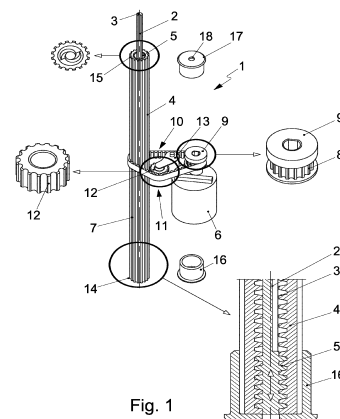


Fig. 1

MOTORIZED WINDOW TREATMENT

A motorized window treatment may provide a low-cost solution for controlling the amount of daylight entering a space through a window. The window treatment may include a covering material (e.g., a cellular shade fabric or a roller shade fabric), a drive assembly for raising and lowering the covering material, and a motor drive unit including a motor configured to drive the drive assembly to raise and lower the covering material. The motorized window treatment may comprise one or more battery packs configured to receive batteries for powering the motor drive unit. The batteries may be located out of view of a user of the motorized window treatment (e.g., in a headrail or in a battery compartment). The motorized window treatment may use various power-saving methods to lengthen the lifetime of the batteries, e.g., to reduce the motor speed to conserve additional battery power and extend the lifetime of the batteries.

Publication: [US 20150226001 A1 20150813](#)

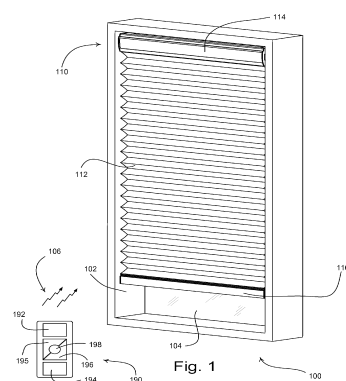
Applicant: Lutron Electronics Co., Inc., Coopersburg, US
Inventor: Jason O., Adams, Emmaus, US; Edward J., Blair, Telford, US; Andrew Karl, Cooney, Quakertown, US; Soumya, Jain, Maharashtra, IN; David A., Kirby, Zionsville, US; Stephen, Lundy, Coopersburg, US; Justin J., Mierta, Allentown, US; Daniel W., Mistarz, Allentown, US; Robert C., Newman, JR., Emmaus, US; Peter W., Ogden, JR., Breinigsville, US; Jonathan L., Roe, Coopersburg, US; Chen Ming, Wu, Emmaus, US; Justin M., Zernhelt, New York, US; Samuel F., Chambers, Gwynedd Valley, US

Prio:

Appl.No: US14690914

IPC: E06B 9/72 2006.01 (IA)

Patent Application Publication Aug. 13, 2015 Sheet 1 of 21 US 2015/0226001 A1



Fixed Ladder Portable Mounted Support Assembly

The invention provides an adjustable ladder mounted system to facilitate the use of a lifting or support apparatus. This steel clamping system distributes the weight to four (4) different locations of a permanently mounted fixed ladder. The clamping system adjusts for all common ladder rail/leg sizes, and differences in spacing of the ladder rungs. This design allows for ease of set-up and use by a single worker, results in a solidly supported lifting structure/pole/shaft, economically produced, and can be easily moved from one location to another.

Publication: [US 20150226002 A1 20150813](#)

Applicant: Dale Lee, Johansen, Meridian, US

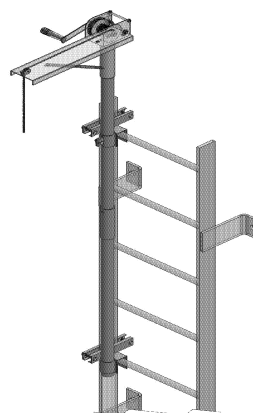
Inventor: Dale Lee, Johansen, Meridian, US

Prio:

Appl.No: US14176116

IPC: E06C 7/10 2006.01 (IA)

Patent Application Publication Aug. 13, 2015 Sheet 1 of 6 US 2015/0226002 A1



LADDERS, LADDER COMPONENTS AND RELATED METHODS

Ladders, ladder components and related methods are provided including various embodiments of a combination ladder. In some embodiments, a platform is provided that is fixedly coupled with a rail assembly of a combination ladder. The platform may pivot between a useable position or state and a stowed or stored position or state. The platform may maintain a position relative to certain rungs of the rail assembly while being displaceable relative to other rungs of the rail assembly. A hand rail may be coupled to the rail assembly and a tray may be coupled with the hand rail. The tray and the platform may be configured to maintain a constant distance between one another while the rail assembly is adjusted for height.

Publication: [US 20150226003 A1 20150813](#)

Applicant: WING ENTERPRISES, INCORPORATED,
Springville, US; N. Ryan, Moss, Mapleton, US;
Sean, Peterson, Santaquin, US; Brian, Russell,
Salt Lake City, US

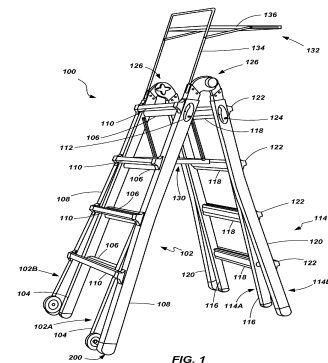
Inventor: N. Ryan, Moss, Mapleton, US; Sean, Peterson,
Santaquin, US; Brian, Russell, Salt Lake City, US

Prio:

Appl.No: US14696829

IPC: E06C 7/42 2006.01 (IA)

Patent Application Publication Aug. 13, 2015 Sheet 1 of 14 US 2015/0226003 A1



METHODS AND SYSTEMS OF INTERIOR WINDOW FRAMING

An interior window framing system comprising a standardized frame having predetermined dimensions proportionate to a standard window.

Publication: [US 20150233168 A1 20150820](#)

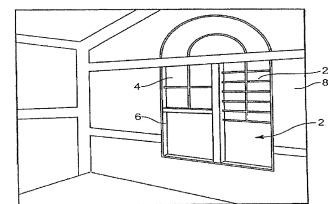
Applicant: Outlook Window Product, L.L.C., Gilbert, US
Inventor: Kendall W., Prince, Mesa, US; Jack R., Prince,
West Bountiful, US; Matt A., Stott, Syracuse,
US

Prio:

Appl.No: US14629352

IPC: E06B 1/04 2006.01 (IA)

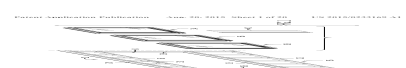
Patent Application Publication Aug. 20, 2015 Sheet 1 of 12 US 2015/0233168 A1



WINDOW MULL SYSTEM

A system for mulling a plurality of fenestration assemblies in an opening includes a first fenestration assembly having a top surface and a first groove extending therein and a second fenestration assembly having a top surface and a second groove extending therein. A mull connector operatively connects the first fenestration assembly and second fenestration assembly together. A sealing cap is positioned on top of the mull connector and includes a first portion positioned on a first side of a line groove line defined by the first groove and the second groove, and a second portion positioned on the second opposite side of the line groove.

Publication: [US 20150233169 A1 20150820](#)



Applicant: MILGARD MANUFACTURING INCORPORATED,
Taylor, US
Inventor: Melvin, Saunders, Auburn, US; Michael,
Kuneman, Auburn, US
Prio:
Appl.No: US14609384
IPC: E06B 1/60 2006.01 (IA)

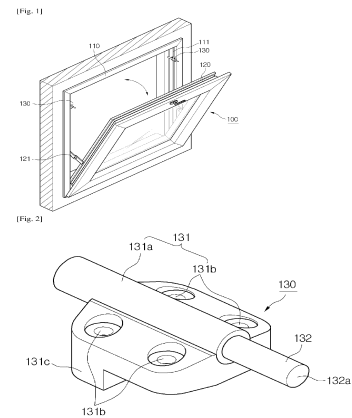
TILT AND TURN WINDOW SYSTEM HAVING DAMPER

Disclosed is a tilt and turn window system having a damper, which can prevent each corner portion of a window frame from being damaged by shock generated when a window is closed on the window frame in a super high-rise building to which high wind pressure is applied. To this end, the T-T (Tilt & Turn) window system having a damper, includes a window frame; a window which is coupled to the window frame so as to be closed and opened in a T-T manner; and a damper which is disposed at at least one side of the window frame so as to be contacted with a surface of the window.

Publication: [US 20150233170 A1 20150820](#)

Applicant: LG HAUSYS, LTD., Seoul, KR
Inventor: Bo Ra, Nam, Cheongju-si, KR; Byung Hoon,
Jeon, Cheongju-si, KR
Prio: KR 20120131 10-2012-0009403, WO
20140722 PCT/KR2013/000654
Appl.No: US14373859
IPC: E06B 3/34 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 2 US 2015/0233170 A1



DOOR SYSTEM AND METHOD OF MAKING

According to some embodiments, a multi-panel door system includes a fixed panel and an active panel. Both panels are secured to the astragal of the door frame by securement members driven into and through hinges connected to the active panel, through the astragal, and into the fixed panel. The securement members are driven through a middle portion of the astragal stem in order to align the fixed and active panels in a recessed position with respect to the door frame. The fixed panel and the active panel are coplanar. Hinge support plates are placed between the hinges and the astragal and communicate forces transmitted through the securement members into deeper portions of the astragal.

Publication: [US 20150233171 A1 20150820](#)

Applicant: Pella Corporation, Pella, US
Inventor: Joseph A., Ritzert, Pella, US; Andrew, Morse,
Altoona, US; Earl J., Ratcliff, New Sharon, US;
Cory, Brown, Pella, US
Prio:
Appl.No: US14622108
IPC: E06B 3/36 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 30 US 2015/0233171 A1

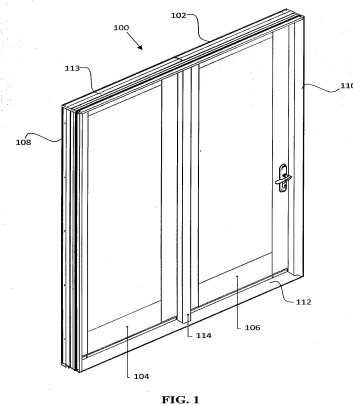


FIG. 1

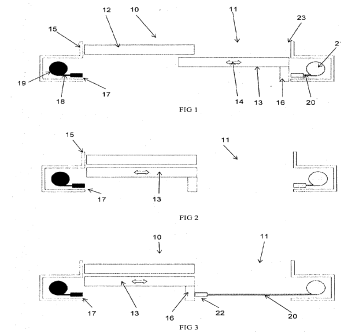
ASSEMBLY FOR CLOSING AN OPENING

An assembly for closing an opening comprising a door panel adapted for sliding movement between an open position and a closed position, a first extendable member located at a first edge of the opening and extendable towards an opposed second edge of the opening, and a second extendable member located at the second edge of the opening and extendable towards the first edge of the opening, and wherein the door panel includes a stop member attached thereto and movable therewith, the location of the stop member defining the limit of movement of the first extendable member towards the second edge of the opening, and the limit of movement of the second extendable member towards the first edge of the opening.

Publication: [US 20150233172 A1 20150820](#)

Applicant: CENTOR DESIGN PTY LTD, Queensland, AU
Inventor: Martin, Haberland, Wynnum, AU
Prio: AU 20120919 2012904090, WO 20150319 PCT/AU2013/001032
Appl.No: US14429578
IPC: E06B 3/46 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 8 US 2015/0233172 A1



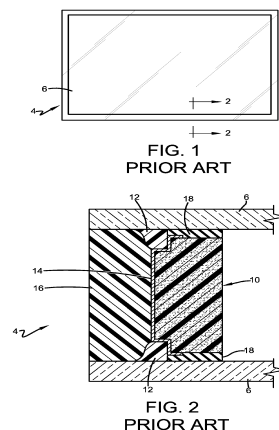
Spacer for Insulating Glazing Unit

A flexible spacer body has two opposing faces adapted to engage the inner surfaces of glazing structures to define an insulating glazing unit. The spacer body may be desiccated polymeric foam such as a silicone foam rubber or EPDM. An adhesive capable of bonding the spacer body to the glazing structure is carried by both of the faces. The adhesive may be from about 0.050 mm to about 1.524 mm thick. The adhesive material also has the properties of low argon gas and low moisture permeability. The adhesive comprises polymers where butyl rubber and/or polyisobutylene polymers together make up the majority of the polymers. The adhesive may also comprise other materials as needed to make it pressure sensitive and to impart a water resistant bond to glass glazing structures. The space assembly may include additional materials to secure the adhesive to the spacer body.

Publication: [US 20150233173 A1 20150820](#)

Applicant: QUANEX IG SYSTEMS, INC., Cambridge, US
Inventor: Louis Anthony, Ferri, Solon, US; Tracy G., Rogers, Dover, US; Lawrence, Johnson, Cambridge, US; Qingyu, Zeng, Solon, US; Kevin, Zuege, Solon, US; Ron, Buchanan, Cambridge, US; James, Baratuci, Solon, US; Lee, Canning, Cambridge, US; Tim, Harris, Solon, US; Bill, Hartle, Solon, US; Kenneth, Wayman, Cambridge, US
Prio: WO 20141125 PCT/US13/43124
Appl.No: US14403796
IPC: E06B 3/663 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 3 US 2015/0233173 A1



METHOD AND APPARATUS FOR SPACERS FOR INTER-PANE CAVITY OF VACUUM INSULATING GLASS UNITS AND VACUUM INSULATING GLASS UNITS INCORPORATING SAME

A vacuum insulating glass unit comprises a first lite of transparent material having an inner surface and a periphery and a second lite of transparent material having an inner surface and a periphery. The second lite is spaced apart from the first lite to define a cavity between the opposing inner surfaces. An edge seal assembly hermetically joins the peripheries continuously around the cavity. A plurality of stand-offs are disposed within the cavity, each stand-off having a filament body having a rectangular cross-section including a relatively flat top surface, a relatively flat bottom surface, and relatively flat sides. The filament body has a curved shape, when viewed perpendicular to the inner surfaces. At least one adherence point on one of the top surface or bottom surface of the filament body is affixed to at least one of the inner surfaces of the adjacent first or second lites.

Publication: [US 20150233174 A1 20150820](#)

Applicant: EVERSEALED WINDOWS, INC., Evergreen, US

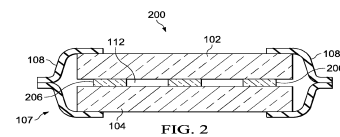
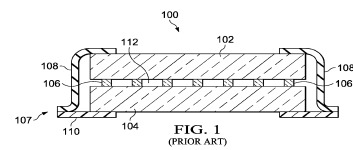
Inventor: DAVID H., STARK, EVERGREEN, US

Prio:

Appl.No: US14622858

IPC: E06B 3/677 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 5 US 2015/0233174 A1



Door Seal

A sealing assembly is disclosed for a hinged door which is pivotable over a door threshold when closed. The sealing assembly includes a plurality of elements located within a channel positionable adjacent an edge of the door. The elements include an actuator responsive to closing of the door, the actuator having at least one connector rod extending along the channel and being movable longitudinally within the channel in response to the door closing. The or each rod is connected to at least one pivotable arm comprising rigid sections divided by flexible joints, the other end of the arm being connected to a sealing member. The or each arm is flexible such that as the or each connector rod moves along the channel, part of the arm flexes vertically thereby imparting and maintaining vertical pressure on the sealing member during use.

Publication: [US 20150233175 A1 20150820](#)

Applicant: RBP Associates Limited, Hayling Island, GB

Inventor: Ronald Brian, Parker, Hampshire, GB

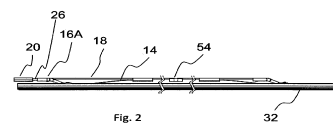
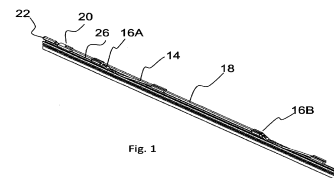
Prio: GB 20120830 1215433.2, WO 20150302

PCT/GB2013/000365

Appl.No: US14425270

IPC: E06B 7/215 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 8 US 2015/0233175 A1



SUPPORT DEVICE FOR PROTECTING WINDOW GLASS

Disclosed a support device for protecting window glass. The support device for protecting window glass comprises: a main body for supporting the window glass; a plurality of extension belts which extend radially from the main body, each with a first end detachably fastened thereto; and suction plates constituted at each of the other ends of the extension belts. The main body for supporting the window glass has: a first member which is height adjustable and to which the ends of each of the plurality of extension belts are fastened; and a suction plate of a second member which is provided on a surface on one side of the first member, and is constituted so as to make contact with the window glass.

Publication: [US 20150233176 A1](#) [20150820](#)

Applicant: Ho-Eon, JEON, Tongyoung-si Gyeongsangnam-do, KR

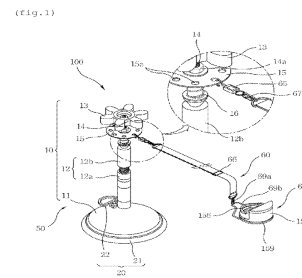
Inventor: Ho-Eon, Jeon, Tongyoung-si Gyeongsangnam-do, KR

Prio: KR 20121011 10-2012-0113181, WO 20150409 PCT/KR2013/006546

Appl.No: US14434424

IPC: E06B 7/28 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 9 US 2015/0233176 A1



ENERGY-EFFICIENT FENESTRATION ASSEMBLIES

Energy-efficient fenestration assemblies that effectively secure substrates, such as window films, are described. The fenestration assembly includes: (1) a base frame capable of having secured thereon a substrate; and (2) a tensioner capable of engaging with the base frame such that when the base frame has secured thereon the substrate, the tensioner places the substrate under tension relative to the base frame.

Publication: [US 20150233177 A1](#) [20150820](#)

Applicant: CLEAR WALL CORPORATION, Felton, US

Inventor: Normand, Marchand, Felton, US

Prio: WO 20150305 PCT/US2013/058628

Appl.No: US14426380

IPC: E06B 9/24 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 9 US 2015/0233177 A1

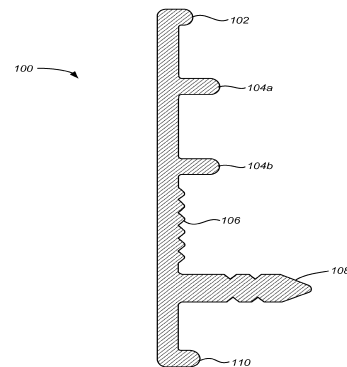


FIG. 1

CORD-LESS SCROLLING DEVICE AND METHOD FOR SCROLLING OPERATION WIRE OF WINDOW CURTAIN

The operation wire scrolling device includes a resilient member with has a first end and a second end. The scrolling force of the first end is larger than that of the second end. The second end of the resilient member is securely wrapped to the central pin of the scrolling member, and the first end of the resilient member is securely wrapped to the side pin of the scrolling member. When the operation wire is pulled, the second end of the resilient member does not pull the first end of the resilient member so that the position of the curtain is set.

Publication: [US 20150233178 A1](#) [20150820](#)

Applicant: CHING FENG HOME FASHIONS CO., LTD.,
Fuxing Shiang, TW

Inventor: SHENG-YING, HSU, Fuxing Shiang, TW; WU-
CHUNG, NIEN, Fuxing Shiang, TW

Prio:

Appl.No: US14184646

IPC: E06B 9/322 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 11 US 2015/0233178 A1

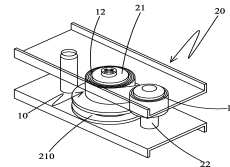


FIG. 1

LIGHT ADJUSTING ROLLER BLIND DEVICE AND METHOD FOR MOUNTING THE SAME

A light adjusting roller blind device has a support assembly, and a driving assembly, an adjusting mechanism and a blind assembly mounted on the support assembly. A blind of the blind assembly can be adjusted by simply detaching a second holding part from a first holding part and then releasing a first rope. The blind can be stably lowered along with the releasing of the first rope. Therefore, it is easy and convenient for the user to adjust the blind of the light adjusting roller blind device.

Publication: [US 20150233179 A1](#) [20150820](#)

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Inventor: Wen-Chong, HUANG, Taipei, TW

Prio:

Appl.No: US14183658

IPC: E06B 9/40 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 23 US 2015/0233179 A1

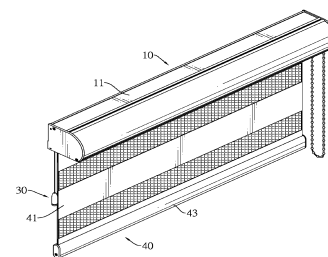


FIG. 1

Ladder legs and adjustable leg extension ladder levelers

Improvements to the leg extension of an adjustable ladder leveler and, more generally, improvements to ladder legs. A shoe with fastener holes to reduce leg slippage. A shoe with a claw that folds to be parallel to the ladder leg and then slides upward with respect to the leg thereby becoming locked into position so that it cannot move away from being parallel so long as weight is applied on the ladder. Increased length and modified shape on the distal ends of control levers on the extendable leg ladder leveler so that the levers can be operated with a foot and do not require hand operation.

Publication: [US 20150233180 A1 20150820](#)

Applicant: Philip F., Lanzafame, Poulsbo, US

Inventor: Philip F., Lanzafame, Poulsbo, US

Prio:

Appl.No: US14184662

IPC: E06C 7/42 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 9 US 2015/0233180 A1

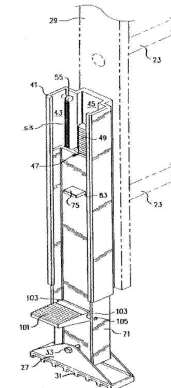


Figure 1 -- prior art

RELEASABLE COUPLING FOR LADDER SECTION AND THE LIKE

A coupling (1) for joining together two sections of a ladder or the like, said coupling comprising a female socket (2) and a male spigot (3) adapted for fitting to said respective sections to be joined with the co-operation of said socket and said spigot effecting said joint wherein said socket includes a socket housing (4) having an internal dock (5) for receiving said spigot said dock including at least one tapered side, said tapered side including a negative step (6) forming a keeper and wherein said spigot includes a spigot body (7) having a tapered reference portion (8) adapted to snugly engage said tapered dock and a section engaging portion (9) protruding therefrom and one or a plurality of jaws (10) pivoted to said spigot body said jaw or jaws including a protruding lug adapted to co-operate with said keeper and a biasing means adapted to expand open said jaws against said tapered dock.

Publication: [US 20150233181 A1 20150820](#)

Applicant: Branach Technology Pty Ltd, Boronia, Victoria, AU

Inventor: Michael, Walsh, Boronia, AU

Prio: AU 20120905 2012903864, WO 20150305
PCT/AU2013/001012

Appl.No: US14426250

IPC: E06C 7/50 2006.01 (IA)

Patent Application Publication Aug. 20, 2015 Sheet 1 of 13 US 2015/0233181 A1

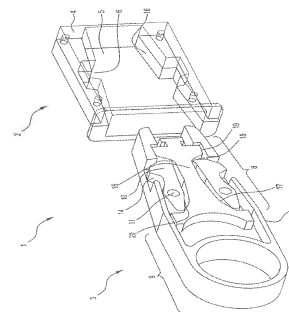


FIG. 1

Device for Enhancing a Corner Structure

In an embodiment, an interchangeable corner hanger to ornament framing protruding corner structures is provided. The interchangeable corner hanger includes a horizontal portion and a vertical portion. The horizontal portion is designed to rest on an exposed edge of a corner structure, and the vertical portion is designed to hang over the corner of the corner structure and rest against a wall upon which the trim is attached. The vertical portion has a length sufficient to stabilize the corner hanger without the use of other adhesives or attachments. In an embodiment, the vertical portion is configured to allow one or more interlocking elements to be suspended from the vertical portion. For example, the vertical portion may include an interlocking pattern configured to accept a complimentary interlocking pattern on an interlocking element. Further interlocking elements may be attached to the interlocking element.

Publication: [US 20150240549 A1 20150827](#)

Applicant: CONNIE M. DAYTON, Ft. Worth, US

Inventor: Connie M., Dayton, Ft. Worth, US

Prio:

Appl.No: US14706705

IPC: E06B 1/04 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 17 US 2015/0240549 A1

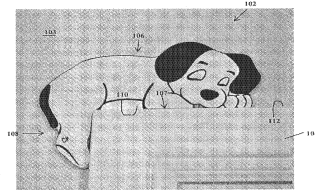


Figure 1

ADD-ON WINDOW INSULATION SYSTEM

A glazing frame profile configuration (A) used to create an Add-on Window and Door insulation system comprising two layers of preferably transparent glazing panes. The profile configuration has a glazing section (1) followed by a spacer (3) followed by a glazing section (2) and then a second spacer (4). Each glazing section (1 and 2) provides an edge cover to the additional glazing; however the glazing profile configuration does not provide a frame to the existing window pane (B). A preferable method for mounting the add-on unit is to have a leg (12) on the end of the spacer (4) with a mounting tape C attaching it to the existing pane B.

Publication: [US 20150240550 A1 20150827](#)

Applicant: Philip John, CARTER, Mt Iron, Wanaka, NZ

Inventor: Philip John, Carter, Wanaka, NZ

Prio: NZ 20121112 603552, WO 20150421

PCT/NZ2013/000200

Appl.No: US14437475

IPC: E06B 3/263 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 6 US 2015/0240550 A1

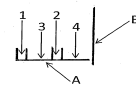


Fig. 1

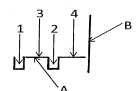


Fig. 2

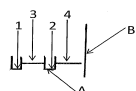


Fig. 3

Tension Adjustable Retractable Screen Assembly

A screen track assembly for mounting and tensioning a retractable screen across an opening, the assembly having a generally U-shaped outer track member having an opening; an inner track member received within the outer track member, the inner track member adapted to receive a retractable screen, the inner track member being movable relative to the outer track member; biasing members to present a biasing force to extend the inner track member toward the opening of the outer track member; and adjustable mechanical fasteners to fix the position of the inner track member relative to the outer track member such that the screen may be tightened or loosened as required for proper functionality.

Publication: [US 20150240551 A1 20150827](#)

Applicant: Michael, Murray, Jacksonville, US

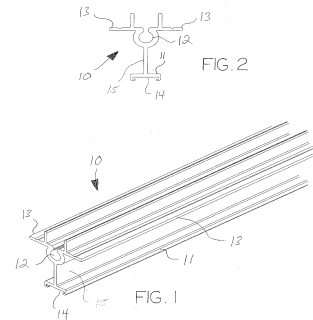
Inventor: Michael, Murray, Jacksonville, US

Prio:

Appl.No: US14634165

IPC: E06B 3/44 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 7 US 2015/0240551 A1



WINDOW/ DOOR SYSTEM WITH FLAT TRACK HAVING "C"-SHAPED ROLLER SUPPORTS

There is provided a window/door system with a flat track having "C"-shaped roller supports to provide a nice appearance and to improve air tightness and water tightness by reducing the number of grooves exposed on a window/door frame when a window/door is opened, by using the roller supports in a cross sectional shape of "C" which is open at one side.

Publication: [US 20150240552 A1 20150827](#)

Applicant: Soon Seok, KIM, Paju-Si, KR

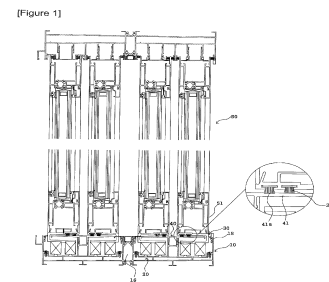
Inventor: Soon Seok, KIM, Paju-Si, KR

Prio: KR 20140225 10-2014-0021779

Appl.No: US14622872

IPC: E06B 3/46 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 4 US 2015/0240552 A1



COLLAPSIBLE WALL

A collapsible wall including a support frame and a first series of panels configured to suspend from the support frame with at least one pair of adjacent panels pivotally connected to each other. A second series of panels are configured to suspend from the support frame opposite the first series of panels and include at least one pair of adjacent panels pivotally connected to each other. A bottom sill opposite the support frame is pivotally connected to a bottom portion of the first series of panels and to a bottom portion of the second series of panels. A motor assembly is mounted on the support frame and configured to raise or lower at least one lifting element to raise or lower the bottom sill to collapse or extend the panels in the first and second series of panels.

Publication: [US 20150240553 A1 20150827](#)

Applicant: Advanced Equipment Corporation, Fullerton, US

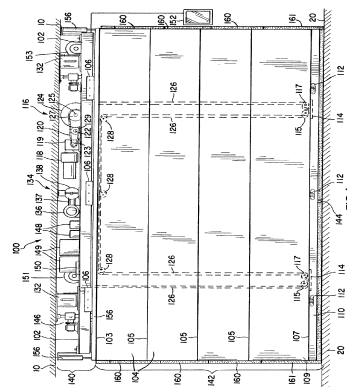
Inventor: Frank V., Manning, Moreno Valley, US

Prio:

Appl.No: US14599281

IPC: E06B 5/20 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 20 US 2015/0240553 A1



WINDOW HAVING VENTILATION STRUCTURE

Disclosed therein is a window having a ventilation structure which can ventilate the indoor air smoothly without regard to weather conditions, such as, yellow dust, rainy season, or localized heavy rain. The window includes: a window frame having upper and lower openings which are divided by a horizontal member; and upper and lower window panes respectively mounted in the upper and lower openings for selectively opening and closing the upper and lower openings, wherein at least a pair of the horizontal members are spaced apart from each other in the window frame, and a ventilation hole is disposed between the horizontal members. The window can ventilate the indoor air smoothly without regard to weather conditions, such as, yellow dust, rainy season, or localized heavy rain, and prevent rain from coming into the room through the open window.

Publication: [US 20150240554 A1 20150827](#)

Applicant: LG HAUSYS, LTD., Seoul, KR

Inventor: Se Jin, Kim, Cheongju-si, KR

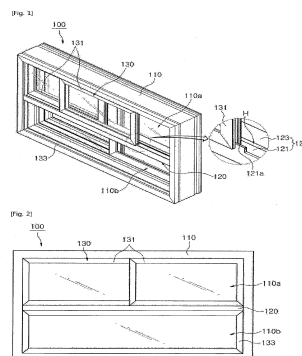
Prio: KR 20121218 10-2012-0148025, WO

20150331 PCT/KR2013/011704

Appl.No: US14432679

IPC: E06B 7/02 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 5 US 2015/0240554 A1



DOOR SEAL WITH TWO SEALING PLANES

The door seal comprises a fixing element (20) for fixing to a door, a seal receiving element (40), a lowering mechanical unit (20) for lifting and lowering the seal receiving element (40) relative to the fixing element (20), and a sealing element (50) fixed to the seal receiving element (40). The sealing element (50) provides a first sealing line (54a) by means of a first sealing element portion (54) which can be lifted or lowered by means of the lowering mechanical unit, and the first sealing element portion (54) is a sealing lip and/or a sealing arc. The sealing element (50) provides a second sealing line (55a) by means of a second sealing element portion (55), said second sealing line running parallel to the first sealing line (54a). The second sealing element portion (55) has a first and a second side (52, 56), said first side (52) can be lifted and lowered by means of the lowering mechanical unit and said second side (56) is fixed in its position relative to the fixing element (20). In the lowered state, the first and the second sealing line (54a, 55a) seal against a surface which can be found outside of the door seal. Said seal allows a sufficient sealing of the gap between frames and doors when the seal is lowered even during a horizontal movement.

Publication: [US 20150240555 A1 20150827](#)

Applicant: Planet GDZ AG, Tagelswangen, CH
Inventor: Manfred, Kross, Iserlohn, DE
Prio: DE 20120823 20 2012 008 018.0, WO 20150223 PCT/EP2013/067556
Appl.No: US14423236
IPC: E06B 7/18 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 6 US 2015/0240555 A1

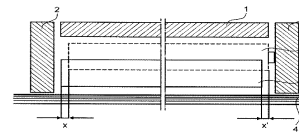


FIG. 1 (Prior Art)

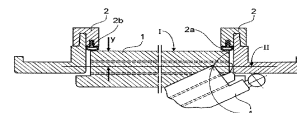


FIG. 2 (Prior Art)

Sealing Strip

The present disclosure describes various embodiments, as well as features and aspects thereof, of a sealing strip that can function to create a thermal, gas, liquid and/or particulate barrier between the primary surface and the secondary surface when the two are mated. More specifically, one embodiment of the sealing strip includes a coupling portion for detachably coupling the sealing strip to a primary surface, a gasket portion defining a channel and a channel insert; the gasket portion having a flexing portion, a flex point and a channel; the channel insert configured to fill at least a portion of the channel, to fit at least partially within said channel and to extend along at least a partial length of said channel.

Publication: [US 20150240556 A1 20150827](#)

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Inventor: Robert T., Ellingson, Social Circle, US; Dennis L., Harms, JR., Covington, US
Prio:
Appl.No: US14268029
IPC: E06B 7/23 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 7 US 2015/0240556 A1

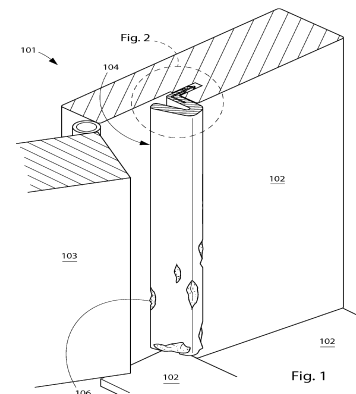


Fig. 1

OVERHEAD COILING CLOSURE HOOD GUARD

The disclosed invention prevents damage to a hood and its contents. In a preferred embodiment, a first and second support member are mounted on either side of an access opening. A cross member is slidably retained in a protective, starting position within the support members. The cross member is preferably positioned above the access opening in front of a coiling door hood such that a striking force directed at the hood first encounters the cross member. When struck, the cross member slidably retracts against a force assembly to dissipate the striking force and upon withdrawal of the striking force the cross member returns without human intervention to the protective, starting position.

Publication: [US 20150240557 A1 20150827](#)

Applicant: CIW ENTERPRISES, INC., Mountaintop, US;
CIW ENTERPRISES, INC., Mountaintop, US

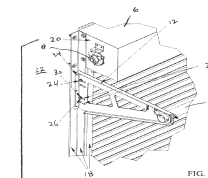
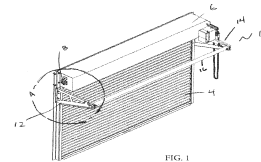
Inventor: Thomas, Balay, Drums, US; Joseph D.,
Kondash, Wilkes-Barre, US; Joseph, Balay,
Sugarloaf, US; Ian, Klish, Nanticoke, US

Prio:

Appl.No: US14187235

IPC: E06B 9/17 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 3 US 2015/0240557 A1



Bottom Rail Level Adjustor

A level adjusting device for the bottom rail of a window covering is disclosed. This device has a housing having a base, a top and a sidewall extending between the base and the top. The top has an opening through which a lift cord passes. The base has a first opening through which a lift cord passes and a second opening. A spindle is positioned within the housing, such that the bottom end of the spindle is positioned over the second opening in the bottom of the housing. That bottom end is configured to receive a tool for turning the spindle. The spindle has a peripheral edge with spaced apart notches that are engaged by a projection extending from the housing. Turning the spindle causes the lift cord to be wound around or unwound from the spindle which shortens or lengthens that lift cord to level the bottom rail.

Publication: [US 20150240558 A1 20150827](#)

Applicant: LUMINO, INC., Madison, US; Brooks,
Vrooman, Mount Horeb, US

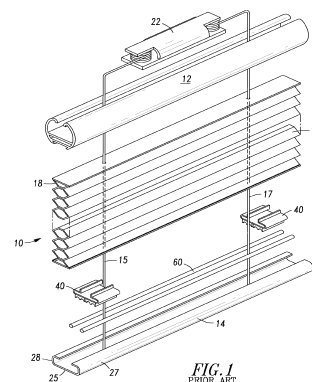
Inventor: Brooks, Vrooman, Mount Horeb, US

Prio:

Appl.No: US14189344

IPC: E06B 9/36 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 7 US 2015/0240558 A1



WINDOW BLIND WITH CARRIAGE

A window blind with carriage has a carriage provided in a headrail, wherein the carriage is movable along the headrail to bring at least one cord, and to move a bottom rail up and down relative to the headrail between an expanding position and a collapsing position. A retarding unit is further provided in the headrail, wherein the retarding unit provides a retarding force to the carriage to stop the carriage when the bottom rail arrives at the expanding position, which ensures that the bottom rail stops at a predetermined position without rebounding when the window blind is fully expanded.

Publication: [US 20150240559 A1 20150827](#)

Applicant: NIEN MADE ENTERPRISE CO., LTD., Taichung City, TW

Inventor: LIN, CHEN, Taichung City, CN

Prio: CN 20140227 201420085483.5

Appl.No: US14619850

IPC: E06B 9/38 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 7 US 2015/0240559 A1

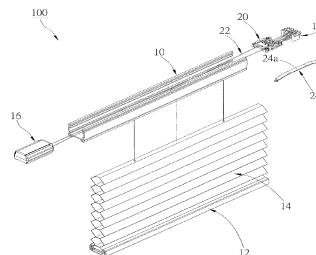


FIG. 1

BATTERY-POWERED MOTORIZED WINDOW TREATMENT HAVING A SERVICE POSITION

A battery-powered motorized window treatment for covering at least a portion of a window may be adjusted into a service position to allow for access to at least one battery that is powering the motorized window treatment. A headrail of the motorized window treatment may be adjusted to the service position to allow for easy replacement of the batteries without unmounting the headrail and without requiring tools. The motorized window treatment may comprise brackets having buttons that may be actuated to release the headrail from a locked position, such that the head rail may be rotated into the service position. The headrail easily rotates through a controlled movement into the service position, such that a user only needs one free hand available to move the motorized window treatment into the service position and change the batteries.

Publication: [US 20150240560 A1 20150827](#)

Applicant: Lutron Electronics Co. Inc., Coopersburg, US

Inventor: Edward J., Blair, Telford, US; Samuel F., Chambers, Gwynedd Valley, US; David A., Kirby, Zionsville, US; Peter W., Ogden, JR., Breinigsville, US; James J., Wilson, Nazareth, US; Justin M., Zernhelt, New York, US

Prio:

Appl.No: US14710028

IPC: E06B 9/72 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 15 US 2015/0240560 A1

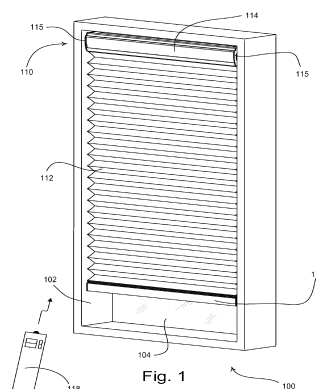


Fig. 1

PORTABLE MODULAR GATE OR OBSTRUCTION SYSTEM AND METHOD

A portable gate module for selectively opening and closing a path through a secured perimeter can include a base structure, a gate support structure, a gate such as a gate panel structure with chain link or other fill structure, a power source, and a drive structure. The base structure can be configured to be removably positionable in the secured perimeter adjacent the path. The gate module can be configured as a pre-cast unit that can be quickly and easily placed into location at a remote or unimproved location such that a gate system can be quickly effected with minimal effort or expertise at the installation location.

Publication: [US 20150240561 A1 20150827](#)

Applicant: TYMETAL CORP., Greenwich, US; TYMETAL CORP., Greenwich, US

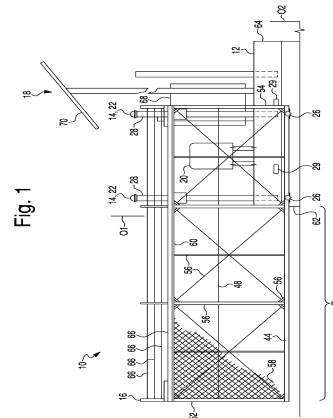
Inventor: BRIAN E., MCCARTY, Greenwich, US; CHARLES R., ALEXANDER, Greenwich, US

Prio:

Appl.No: US14186206

IPC: E06B 11/00 2006.01 (IA)

Patent Application Publication Aug. 27, 2015 Sheet 1 of 11 US 2015/0240561 A1



Draining sill and frame assembly incorporating the same

Draining sills, frame assemblies incorporating the draining sills, and methods of using the same are described herein. The draining sills include a primary drain channel and one or more shorter auxiliary channels to capture and control water passing over the sill. The auxiliary channels provide additional fluid control capability to the draining sills which may be useful in locations where the flow rate of water passing over the sill may be increased.

Publication: [US 9097059 B1 20150804](#)

Applicant: ANDERSEN CORPORATION, Bayport, US; Andersen Corporation, Bayport, US

Inventor: John Scott, Flynn, Temecula, US; Richard Lee, Lang, San Marcos, US

Prio:

Appl.No: US14267293

IPC: E06B 1/04 2006.01 (IA)

U.S. Patent Aug. 4, 2015 Sheet 1 of 10 US 9,097,059 B1

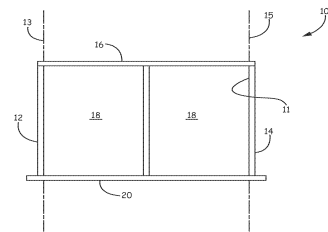
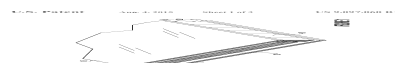


FIG. 1

Biofoam door

A low volatile organic emission method for making a door using a liquid hardenable flowable biofoam formulation. The liquid hardenable flowable biofoam formulation expands upon contact with a blowing agent forming a foam, wherein the liquid hardenable flowable biofoam formulation is formed from plant materials, and a door formed from the method. The method forms a door with sound deadening qualities, increased impact resistance, and resistance to burning and capable of sustaining at least hurricane force winds without deforming.

Publication: [US 9097060 B1 20150804](#)



Applicant: GLASSCRAFT DOOR COMPANY, Houston, US;
GLASSCRAFT DOOR COMPANY, Houston, US
Inventor: John B., Plummer, Houston, US
Prio:
Appl.No: US14502789
IPC: E06B 5/20 2006.01 (IA)

Window sash pivot bar

A pivot bar for a double hung window sash includes an elongated member having a knobbed end for engaging a window jamb or frame. The pivot bar has vertical and horizontal shields for completely covering apertures formed in contiguous horizontal and vertical sides of the window sash. The pivot bar is "snap-fitted" into the window sash apertures formed with a conventional electric drill. The aperture formed in the vertical side of the window sash is less than a complete circle in order for the drill bit to simultaneously form the aperture in the vertical side of the window sash and the horizontal side of the window sash.

Publication: [US 9097061 B1 20150804](#)

Applicant: Barry G., Lawrence, Thomasville, US
Inventor: Barry G., Lawrence, Thomasville, US
Prio:
Appl.No: US13804060
IPC: E06B 3/50 2006.01 (IA)

U.S. Patent Aug. 4, 2015 Sheet 1 of 6 US 9,097,061 B1

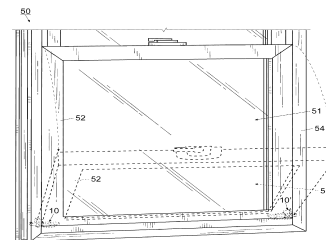


Fig. 1

Attachable built-in blinds for doors and windows

A blind system uses a typical door or window frame that has a hermetically sealed double glazing within an opening of its main frame. A blind assembly is removably received within a rabbet of the main frame while a secondary frame is removably attached to the main frame by passing screws through the secondary frame, the screws being received within bosses located in the rabbet of the main frame, the secondary frame overlying the blind assembly. A single glazing is sealably attached to the secondary frame. The blind assembly is bordered by a spacer that holds a desiccant therein.

Publication: [US 9103156 B1 20150811](#)

Applicant: Anton Koytchev, Vassilev, Tallahassee, US
Inventor: Anton Koytchev, Vassilev, Tallahassee, US
Prio:
Appl.No: US12313776
IPC: E06B 3/32 2006.01 (IA)

U.S. Patent Aug. 11, 2015 Sheet 1 of 2 US 9,103,156 B1

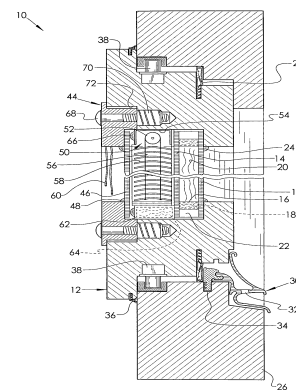


FIG. 1

Hollow core door with internal air flow

Hollow core door apparatus for preventing the build up of pressure in a room having a register through which air flows into the room and a center panel in the door with at least a single opening through the center panel; the door has an inside door skin and an outside door skin, both of which include openings spaced apart from the center panel, and an inside panel and an outside panel disposed in the respective openings in the inside and outside door skins. The inside and outside panels are spaced apart from the center panel within the respective door skin openings, and the spacing within the door skin openings define peripheral openings at least as great as the area of the opening in the center panel and are offset from the opening in the center panel to provide for a non-linear flow of air through the door to prevent the build up of pressure in the room. Several different embodiments are illustrated. An embodiment combining a noxious gas absorbent material with the pressure build up prevention capabilities is also illustrated.

Publication: [US 9109389 B1 20150818](#)

Applicant: Jerry G., Crittenden, Phoenix, US

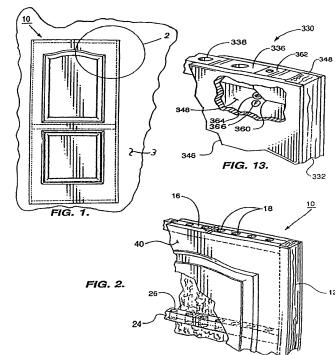
Inventor: Jerry G., Crittenden, Phoenix, US

Prio:

Appl.No: US14120870

IPC: E06B 7/10 2006.01 (IA)

U.S. Patent Aug. 18, 2015 Sheet 1 of 12 US 9,109,389 B1



Screen and method of use

A screen includes a sheet having a first side and an opposite second side. The sheet includes a plurality of holes which pass through the sheet from the first side to the second side. Each hole includes a first opening on the first side and a second opening on the second side. In an embodiment, when the sheet is vertically oriented with its bottom edge down, the first opening is disposed below the second opening. In an embodiment, a layer of conventional screen material is connected to the screen. In other embodiments, the holes are tapered, the holes are configured so as to block vision, the holes have the shape of an inverted V, and a second hole connects spaced apart holes.

Publication: [US 9109390 B1 20150818](#)

Applicant: Victor Vito, Cavuoti, Toronto, CA

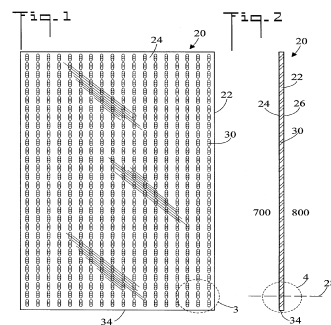
Inventor: Victor Vito, Cavuoti, Toronto, CA

Prio:

Appl.No: US14287595

IPC: E06B 7/02 2006.01 (IA)

U.S. Patent Aug. 18, 2015 Sheet 1 of 11 US 9,109,390 B1



Adjustable working platform for curved surfaces

An adjustable working platform for a curved surface includes a support member configured to be inserted into a hole in the curved surface. An adjustable surface is configured for supporting a load, and the adjustable surface is configured to rotate and lock in multiple positions. An anti-rotation arm is connected to the support member, and the anti-rotation arm includes an adjustable section configured to engage an axial facing portion of the curved surface.

Publication: [US 9114486 B1 20150825](#)

Applicant: General Electric Company, Schenectady, US;
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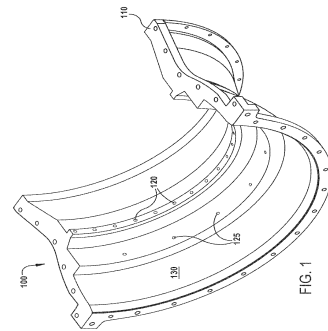
Inventor: Robert Edward, Huth, Greenville, US; John
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Prio:

Appl.No: US14187571

IPC: E06C 9/04 2006.01 (IA)

U.S. Patent Aug. 25, 2015 Sheet 1 of 5 US 9,114,486 B1



Light blocking side valance for window treatments

A light-blocking valance for a window treatment is an L-shaped member having a mounting face and a retaining face, the retaining face extending substantially perpendicular from the mounting face. At least one frangible width adjustment notch is disposed lengthwise along the retaining face for adjusting the width of the valance by breaking it along the desired notch. The mounting face is attached to a side of a window opening such that the retaining face extends outwardly from the side of the window opening to block light and retain the window treatment. When installed in a window opening, the retaining face is configured to be disposed between the window treatment and the window to keep the treatment away from the wall while also closing the gaps between the window opening and the edges of the window treatment.

Publication: [US 9115532 B1 20150825](#)

Applicant: Brand Awareness, Inc., Miami, US; Jeremy,
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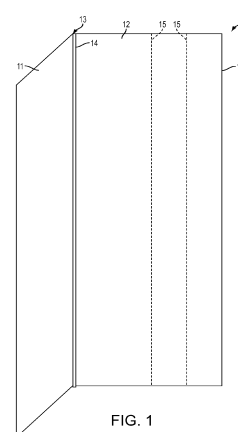
Inventor: Jeremy, Sherman, Miami, US

Prio:

Appl.No: US14221317

IPC: E06B 9/00 2006.01 (IA)

U.S. Patent Aug. 25, 2015 Sheet 1 of 5 US 9,115,532 B1



Hatch actuating arrangement for actuating a hatch of a hatch device

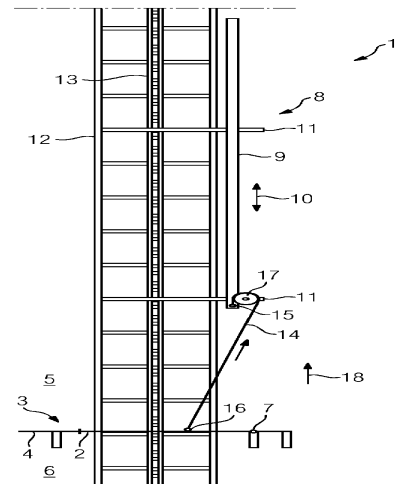
Hatch actuating arrangement (1) for actuating a hatch (2) of a hatch device (3), with the hatch device (3) being adapted to be disposed or being disposed within a tower structure, particularly a tower structure of a wind turbine, comprising: - a hatch device (3) adapted to be disposed or being disposed between two axially adjacent inner volumes (5, 6) of a tower structure, the hatch device (3) comprising a hatch (2), with the hatch (2) being movably supported between an open position, in which a passageway between the two inner volumes (5, 6) is not obstructed, and a closed position, in which a passageway between the two inner volumes (5, 6) is obstructed, - a hatch actuating means (8) for actuating the hatch (2) with the hatch actuating means (8) being movably supported relative to the hatch device (3), wherein - the hatch actuating means (8) is coupled with the hatch (2) in such a manner that by moving the hatch actuating means (8) towards the hatch device (3), a force is applied to the hatch (2) which force moves the hatch (2) in its open position or secures the hatch (2) in its open position.

Publication: [EP 2902625 A1 20150805](#)

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Prio:
Appl.No: EP14153788
IPC: F03D 11/00 2006.01 (IA)

FIG 1



Display case door assembly with vacuum panel

A display case door assembly (10) for a temperature-controlled storage device includes a frame (14) defining an opening into the temperature-controlled storage device and a transparent unit (20) coupled to the frame (14). The transparent unit includes a first vacuum pane (21), a second vacuum pane (23), and an evacuated gap (25) between the first and second vacuum panes (21, 23). The evacuated gap (25) has a predetermined thickness within which a vacuum is drawn, thereby providing a thermal insulation effect for the transparent unit (20). The transparent unit (20) further includes a plurality of spacers (30) disposed within the evacuated gap (25) and configured to maintain the predetermined thickness of the evacuated gap (25) when the vacuum is drawn therein.

Publication: [EP 2904947 A1 20150812](#)

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Matthew, c/o Anthony, Inc. 12391 Montero
Avenue, Sylmar, CA California 91342, US
Prio: US 20140211 201461938555 P, US 20141208
201414563760
Appl.No: EP15151666
IPC: A47F 3/04 2006.01 (IA)

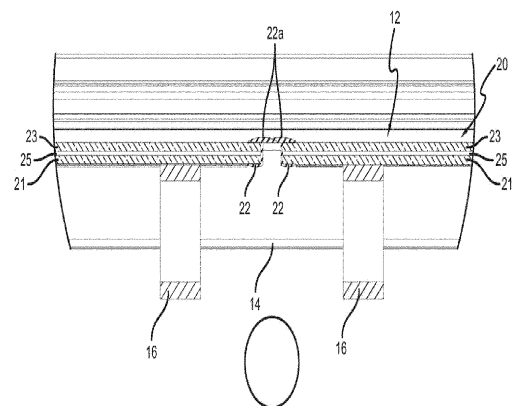


FIG. 5

Jetty on an offshore structure with impact body

Die vorliegende Erfindung bezieht sich auf einen Bootsanleger (4) an einer Offshore-Anlage mit zumindest einem sich in vertikaler Richtung erstreckenden Anstoßkörper (6) aus einem metallischen Werkstoff. Um den Bootsanleger so auszugestalten, dass die Korrosionsgefahr des Anstoßkörpers im Anstoßbereich deutlich verringert wird, wird vorgeschlagen, dass der Anstoßkörper (6) im Anstoßbereich (12) eines Bootes eine Schichtlage (8) aus einem Kunststoff und/oder aus einem Fasermaterial aufweist, die mit dem Anstoßkörper (6) durch eine flächige Klebeverbindung verbunden ist.

Publication: [EP 2905383 A1 20150812](#)

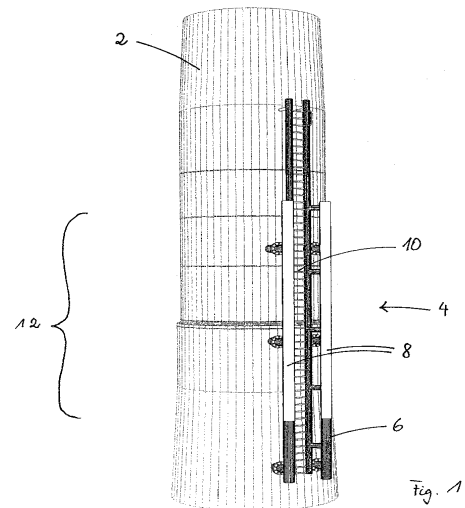
Applicant: BEKA MareSOLUTIONs GmbH, Cuxhavener Strasse 42/44, 28217 Bremen, DE

Inventor: Die Erfindernennung liegt noch nicht vor

Prio: DE 20140211 202014001178 U

Appl.No: EP15000380

IPC: E02B 3/24 2006.01 (IA)



Gate

Die Erfindung betrifft ein Tor mit einem zwischen einer Schließstellung und einer Öffnungsstellung bewegbaren und eine Mehrzahl von bezüglich parallel zueinander verlaufenden Kippachsen, gegeneinander verkippbaren Torblattelementen aufweisenden Torblatt und einer in dem Torblatt integrierten Tür, mit einem um eine etwa senkrecht zu den Kippachsen verlaufende Schwenkachse, bezüglich in Richtung der Kippachsen benachbarten Torblattelementen verschwenkbaren, in seiner Schließstellung in einer Ausnehmung des Torblatts aufgenommenen, in der Schließstellung vorzugsweise etwa in der Torblattebene angeordneten und eine Anzahl von gegeneinander verkippbaren Türblattelementen aufweisenden Türblatt, sowie einem das Türblatt zumindest in seiner Schließstellung, zumindest teilweise umlaufenden Rahmen, wobei der Rahmen mindestens ein an einem Torblattelement und/oder einem an das Türblattelement festgelegtes Rahmensegment mit zwei, drei oder mehr in Tor- bzw. Türblattickenrichtung aufeinanderfolgenden Bauelementen aufweist, von denen mindestens eines als Isolierelement aus thermisch isolierendem Material, insbes. Kunststoff, ausgeführt ist.

Publication: [EP 2905411 A1 20150812](#)

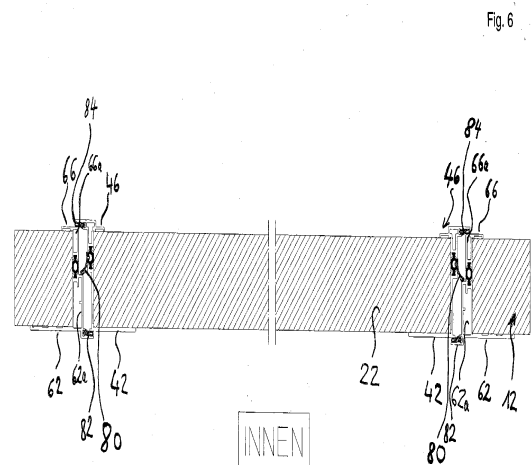
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Inventor: Brinkmann, Michael, Pestalozzistrasse 19, 33790 Halle, DE

Prio: DE 20140206 202014001122 U

Appl.No: EP14004095

IPC: E06B 3/263 2006.01 (IA)



Roller shutter installation and methods for selectively opening and closing a valve of such an installation

Cette installation (1) de volet roulant permet d'obturer sélectivement une ouverture d'un bâtiment et comprend un caisson (2) de réception d'un arbre (6) d'enroulement du volet, et un clapet (12) de renouvellement de l'air à l'intérieur du bâtiment. L'installation comprend, en outre, des moyens de liaison cinématique (8, 10) entre l'arbre d'enroulement (6) et le clapet (12) et l'ouverture sélective du clapet est commandée par rotation (R1, R2) de l'arbre d'enroulement autour de son axe (X6).

Publication: [EP 2905413 A1 20150812](#)

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Prio: FR 20140210 1451008

Appl.No: EP15154271

IPC: E06B 9/17 2006.01 (IA)

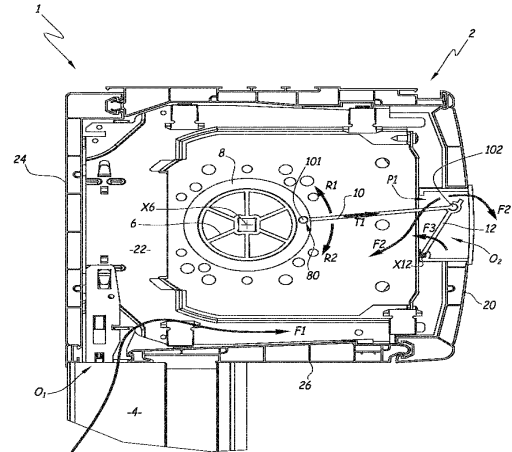


Fig.1

SHADING ASSEMBLY WITH HORIZONTAL FOLDING FINNS

Die Erfindung betrifft eine Beschattungsanlage mit horizontalen Faltschirmen (2, 3) zwischen zwei horizontal angeordneten Schienen (4, 5), wobei an den Schienen (4, 5) und zwischen diesen verlaufend Schnüre (6, 7) oder Stangen vorgesehen sind und mindestens die untere Schiene (4) relativ gegenüber der oberen Schiene (5) verschiebbar angebracht ist und die untere Faltschirm (3) des faltbaren Behangs (1) an der unteren Schiene (4) und die obere Faltschirm (3) an der oberen Schiene (5) befestigt sind. Zur verdeckten Montage ist vorgesehen, dass mindestens die untere Schiene (4) an der Oberseite einen U-förmigen Aufnahmekanal (14), bestehend aus Seitenblenden (15a, 15b) und einer verbindenden Querwand (16), aufweist, wobei an oder in der Querwand (16) die lösbaren Befestigungselemente (17) fixiert sind und die Gegenbefestigungselemente (18) an der Unterseite der unteren Faltschirm (3) angebracht sind und die Seitenblenden (15, 15b) die Querwand (16) mindestens um die Höhe des Verbundes aus Befestigungs- und Gegenbefestigungselementen, einschließlich der unteren Faltschirm (3), überstehen.

Publication: [EP 2905414 A1 20150812](#)

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Inventor: Lienert, Achim, Tannenreuth 2, 95632 Wunsiedel, DE

Prio: DE 20140211 202014100599 U

Appl.No: EP15154414

IPC: E06B 9/262 2006.01 (IA)

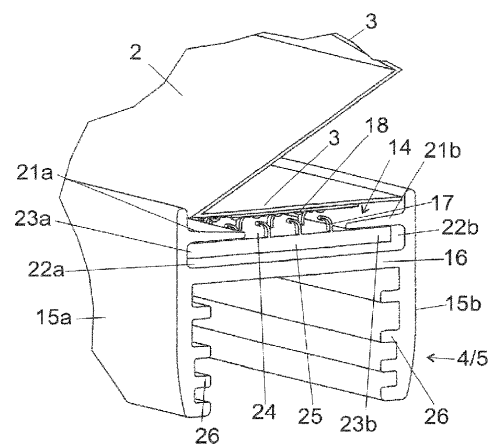


Fig. 7

DEVICE AND METHOD FOR APPLYING HOOKS OR CLIPS TO THE SLATS OF VENETIAN BLINDS WITH FOLDED EDGES PROVIDED WITH ABUTMENT GASKETS

The invention relates to a device for applying hooks or clips to the slats of Venetian blinds. It comprises a guide for positioning a slat L on a reference plane m and at least a first matrix 10 that defines a seat 13 designed to receive a portion of an edge of the slat Bl. The seat 13 is formed at the interface between a first 11 and a second portion 12 into which the first matrix 10 is divided. These two portions are movable in relation to the reference plane m between a closed position, wherein the two portions are positioned alongside each other to close the seat around the portion of edge and at least one open position, wherein the two portions are distanced from one another to open the seat and thus free the movement of the slat. A first portion 11 of the matrix is provided with a projecting appendage 15 destined to skim the edge of the slat. In passing from the open position to the closed position, the first portion 11 is movable so as to move this projecting appendage from a position outside the track 2 to an inside position of the track, so that this appendage crosses the edge of the slat, remaining in the half-space O2 not occupied by the slat and tangent to the reference plane m. This invention also covers a method of applying hooks.

Publication: [EP 2905415 A1 20150812](#)

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Prio: IT 20140207 PD20140020

Appl.No: EP15153998

IPC: E06B 9/266 2006.01 (IA)

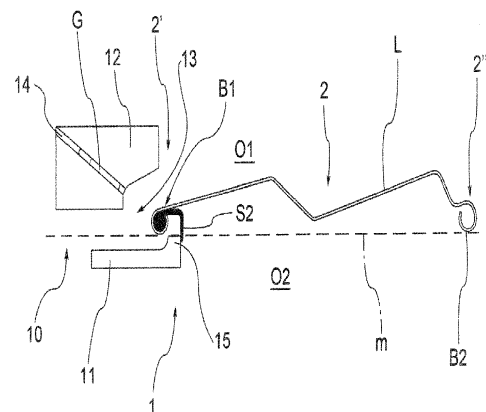


FIG. 6

WIND-RESISTANT SUNSHADE BLIND

The present invention provides a wind-resistant sun-proof blind in the field of mechanical technology, which addresses poor wind resistance of the conventional blinds. The wind-resistant sun-proof blind of the invention comprises a curtain cloth, a window cover and a reel pipe assembly rotatably mounted within the window cover, in which the curtain cloth is wound outside of the reel pipe assembly, each of both ends of the window cover has a downward lateral rail fixedly connected therewith, and the side of the lateral rail facing to the curtain cloth has a longitudinal opening. Two symmetrically disposed lock bars are mounted within the lateral rail along the longitudinal direction, a gap is formed between the said two lock bars, and the upper opening of the gap is in communication with the window cover. Two lateral edges of the curtain cloth extend into the inner cavity of the lateral rail and are transversely fixedly connected with a flexible positioning element after passing through the longitudinal opening of the lateral rail on the same side and the gap between the said two lock bars respectively. The reel pipe assembly has two symmetrically disposed annular grooves and when the curtain cloth is wound around the reel pipe, both lateral edges of the curtain cloth are wound at the corresponding annular grooves respectively, and the outer diameter of the positioning element is larger than the width of the gap between the two lock bars. The present invention has advantages by providing a firm and reliable structure, a good guide nature and strong wind resistance.

Publication: [EP 2905416 A1 20150812](#)

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Inventor: The designation of the inventor has not yet been filed

Prio: CN 20130503 201310160497

Appl.No: EP13883526

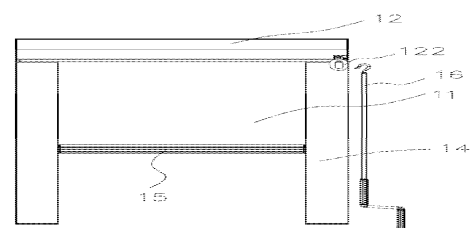


Fig 1

IPC: E06B 9/40 2006.01 (IA)

TOOL FOR CHANGING A LADDER FOOT

Werkzeug zum Wechseln von Leiterfüßen (1) an einer Leiter, wobei das Werkzeug einen U-förmigen Bügel mit einem Steg (W1) und zwei Schenkeln (W2) umfasst, wobei an den Schenkeln (2) Angriffsflächen vorgesehen sind, mit welchen Rasterhebungen (130) des Leiterfußes (1) aus einer Rastposition in eine Entnahmeposition schwenkbar sind, in welcher der Leiterfuß (1) aus dem Holm herausziehbar ist, wobei die Schenkel (W2) Laschen (W21) umfassen, die die Angriffsflächen umfassen.

Publication: [EP 2905417 A1 20150812](#)

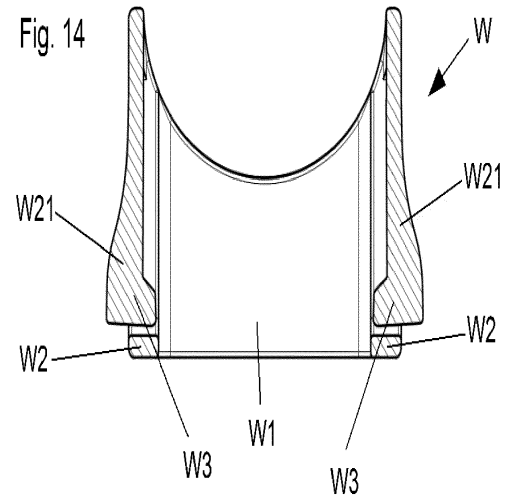
Applicant: Hailo-Werk Rudolf Loh GmbH & Co. KG,
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Prio: DE 20140207 202014100542 U

Appl.No: EP15153498

IPC: E06C 7/42 2006.01 (IA)



DOUBLE-PANE GLASS, AND MANUFACTURING METHOD FOR DOUBLE-PANE GLASS

Insulated glazing includes a gap between a first surface of a first glass substrate and a second surface of a second glass substrate. The first and second surfaces face each other. The gap is hermetically sealed by a sealing member. The sealing member includes a metal member of a frame shape and first and second joining layers. The metal member includes a third surface and a fourth surface. The first joining layer is placed in a frame shape on the first surface of the first glass substrate. The second joining layer is placed in a frame shape on the second surface of the second glass substrate, and is in a position offset from the position of the first joining layer when viewed in a thickness direction of the insulated glazing. The first joining layer is bonded to part of the third surface of the metal member. The second joining layer is bonded to part of the fourth surface of the metal member.

Publication: [EP 2907795 A1 20150819](#)

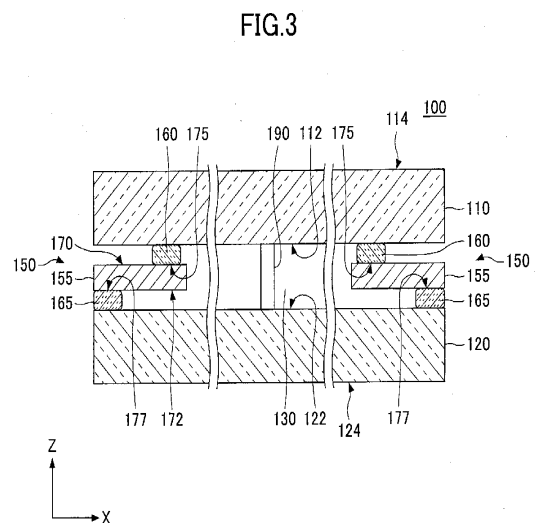
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Prio: JP 20121015 2012228423

Appl.No: EP13846597

IPC: C03C 27/06 2006.01 (IA)



DOOR WING WITH A PLASTIC PROFILE FRAME

Die Erfindung betrifft einen Türflügel (10) mit einem Kunststoffprofilrahmen (11), in dem wenigstens eine Hohlkammer (12) ausgebildet ist, in der ein mit wenigstens zwei Profilschenkeln (14, 15) und einer Profilbasis (16) versehenes U-förmiges Verstärkungsprofil (13) angeordnet ist. Der Kunststoffprofilrahmen (11) weist wenigstens einen seitlichen Profilbereich (17) auf, an dem ein Türband (19) und/oder wenigstens eine Antriebskomponente wie ein Beschlaggetriebe oder ein Stangenverschluss befestigbar sind. An der dem seitlichen Profilbereich (17) zugewandten Seite der Hohlkammer (12) ist in dem Verstärkungsprofil (13), zwischen den Profilschenkeln (14,15), wenigstens eine Verstärkungsplatte (23) angeordnet.

Publication: [EP 2907957 A1 20150819](#)

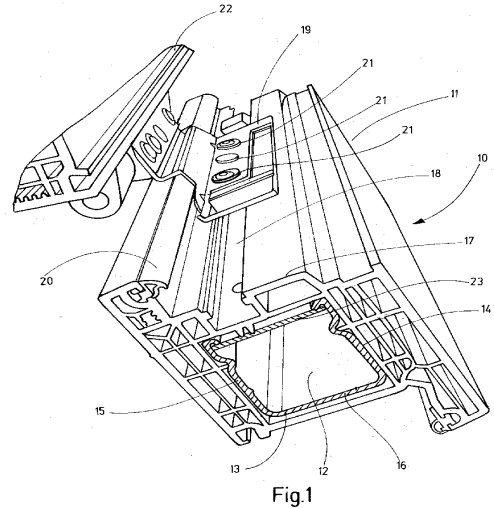
Applicant: Veka AG, Dieselstrasse 8, 48324 Sendenhorst, DE

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Prio: DE 20140212 102014101769

Appl.No: EP15154672

IPC: E06B 3/22 2006.01 (IA)



METHOD FOR MANUFACTURING OF DOOR WINGS

Beschrieben wird ein Verfahren zur Herstellung eines Türblattes, wobei das Türblatt eine Mittellage 2, einen die Mittellage 2 umlaufenden Türrahmen 3 und zwei, die beiden Oberflächen des Türblattes 1 bildende, die Mittellage 2 und den Türrahmen 3 abdeckende Absperrschichten aufweist. Das Verfahren umfasst die Schritte a) Aufbringen einer CPL-Schicht auf eine Oberfläche einer Absperrplatte, b) Teilen der mit der CPL-Schicht ausgestatteten Absperrplatte in zumindest zwei plattenförmige Elemente 4, 5, wobei die plattenförmigen Elemente 4, 5 jeweils an einer ihrer Oberflächen mit einer CPL-Schicht 6, 7 ausgestattet sind und die CPL-Schichten 6, 7 eine unterschiedliche optische Gestaltung der plattenförmigen Elemente 4, 5 bewirken, c) Bereitstellen einer Mittellage 2 mit einem die Mittellage 2 umlaufenden Türrahmen 3, d) Befestigen der plattenförmigen Elemente 4, 5 an der Mittellage 2 und/oder dem Türrahmen 3 derart, dass die plattenförmigen Elemente 4, 5 eine zumindest eine Oberfläche des Türblattes 1 abdeckende Absperrschicht bilden.

Publication: [EP 2907958 A1 20150819](#)

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Prio: DE 20140214 102014101876

Appl.No: EP14199423

IPC: E06B 3/82 2006.01 (IA)

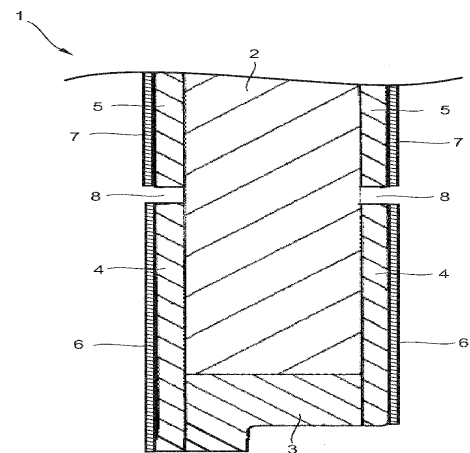


Fig. 2

CORNER JOINT AND METHOD FOR ITS PREPARATION

Eckverbinder(1) aus Aluminiumstrangpressprofil(8), dessen Schenkel(2,3) in zwei auf Gehrung geschnittene Hohlprofile(15) eingeschoben wird, wobei in dessen Querschnittsgeometrie ein Mittelsteg(13) vorgesehen ist, der eine in einem besonderen Herstellungsverfahren erstellte Nut(9) aufnimmt, die in weitere Aussparungen(10,11,12) hineinragt und in Verbindung mit den äußeren Hohlprofilen(15) miteinander verbundene Kammern(K9,K10,K11,K12) bildet, über die ein durch eine im Hohlprofil(15) vorgesehene Einfüllöffnung(16) eingepresster Klebstoff(22) in den Bereich der Gehrung und an die Flächen im Bereich des Außenwinkels(7) und Innenwinkels(6) des Eckverbinders geleitet wird.

Publication: [EP 2907959 A1 20150819](#)

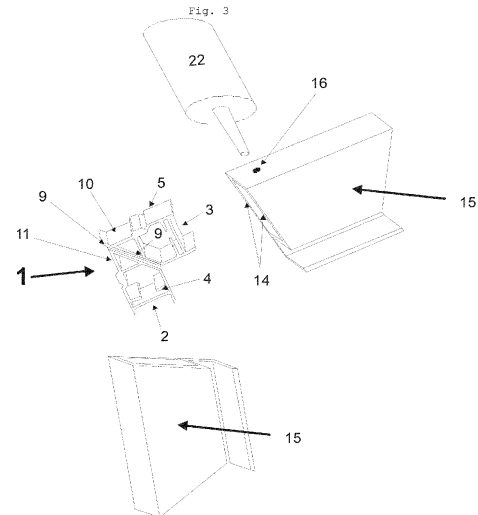
Applicant: Kosak, Adrian, An der Tumpe 25, 58791 Werdohl, DE

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Prio: DE 20140206 102014012187

Appl.No: EP15020011

IPC: E06B 3/968 2006.01 (IA)



Sealing element for sliding window and sliding doors

Die vorliegende Erfindung betrifft ein Dichtungselement (40) zum Abdichten eines Flügelrahmens (3) gegenüber einer Führungsschiene (21, 22) eines Blendrahmens (2). Das Dichtungselement (40) weist einen Verankerungsbereich (60), welcher dazu ausgebildet ist in einen Innenraum des Flügelrahmens (3) einzugreifen und das Dichtungselement (40) an dem Flügelrahmen (3) zu befestigen, und einen Abdeckbereich (50), welcher dazu ausgebildet ist an einer Außenseite des Flügelrahmens (3) angebracht zu werden und eine Längsnut des Flügelrahmens (3) im Wesentlichen vollständig zu überdecken, auf. Um die Montage des erfindungsgemäßen Dichtungselements (40) zu vereinfachen und die Dichteigenschaften zu erhöhen ist es vorgesehen, dass das Dichtungselement (40) einstückig ausgebildet ist.

Publication: [EP 2907960 A1 20150819](#)

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Prio: EP 20140213 14155020

Appl.No: EP15154963

IPC: E06B 7/16 2006.01 (IA)

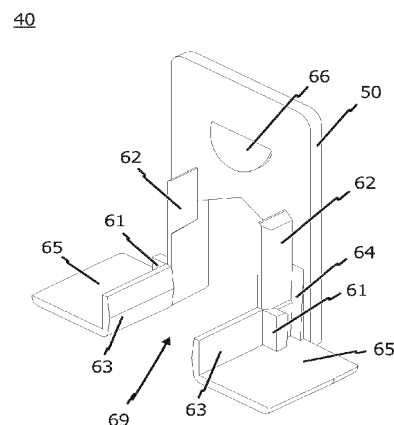


Fig. 2b

Shading device and guide rail assembly for same

Die Erfindung betrifft eine Führungsschienenanordnung für eine Verschattungsvorrichtung, insbesondere für eine Senkrechtmarkise, welche einen materialbahnförmigen Behang (4) aufweist, der einenends an einer Wickelwelle (3) befestigt ist, auf der der Behang (4) auf- und abwickelbar ist, und anderenends an einem in eine gewünschte Auszugsrichtung geführten Fallstab (5), wobei der Behang (4) sich längs seiner Seitenränder erstreckende Kederabschnitte (32) aufweist, mit: einer sich seitlich des Behangs (4) in die Auszugsrichtung erstreckenden Führungsschiene (2), welche eine dem Behang zugewandte, hinterschnittene Führungsnut (7) aufweist, deren Flanken (71) zum beiderseitigen Abstützen des Fallstabs (5) ausgebildet sind, um so den Behang in Normalrichtung auf Linie zu halten, und einem sich längs der Führungsschiene (2) in der Führungsnut (7) erstreckenden Tuchführungseinsatz (25), der einen Kederschienenabschnitt (6) mit einer Kedernut (30) zum Einfädeln des jeweiligen Kederabschnitts (32) des Behangs (4) aufweist, und ferner in Normalrichtung beiderseits von dem Kederschienenabschnitt (6) vorspringende Seitenlaschen (61, 62). Die Erfindung zeichnet sich dadurch aus, dass der Tuchführungseinsatz (25) am oberen Ende oder nahe des oberen Endes der Führungsnut (7) an der Führungsschiene (2) aufgehängt ist. Die Erfindung betrifft ferner eine Verschattungsvorrichtung, insbesondere Senkrechtmarkise, mit einer solchen Führungsschienenanordnung.

Publication: [EP 2907962 A1 20150819](#)

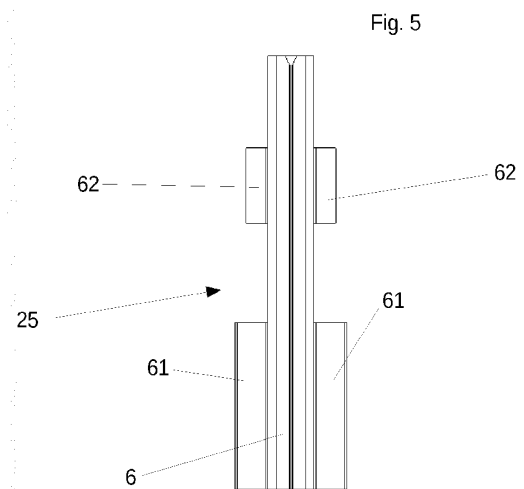
Applicant: ROMA KG, Ostpreussenstrasse 9, 89331 Burgau, DE

Inventor: Kretzinger, Agnes, Kötzer Weg 28, 89312 Günzburg, DE; Jutzi, Stefan, Scheffelstrasse 27, 70193 Stuttgart, DE

Prio: DE 20140214 202014001290 U

Appl.No: EP14020097

IPC: E06B 9/42 2006.01 (IA)



Winding device and cordless roller blind incorporating the same

A winding device (20) for a cordless roller blind (2) includes a mounting seat (3), a winding unit (4) and a connecting mechanism (5). The mounting seat (3) is mountable on a supporting structure (10). The connecting mechanism (5) is for connecting removably the winding unit (4) to the mounting seat (3) in such a manner that the winding unit (4) is upright when connected to the mounting seat (3). The connecting mechanism (5) includes a first connecting set (51) that is disposed on one of a casing (41) of the winding unit (4) and the mounting seat (3), and at least two second connecting sets (52, 52', 52'', 52''') that are disposed on the other of the casing (41) and the mounting seat (3). The first connecting set (51) is removably engageable with one of the second connecting sets (52, 52', 52'', 52''') so as to connect removably the winding unit (4) to the mounting seat (3).

Publication: [EP 2907963 A1 20150819](#)

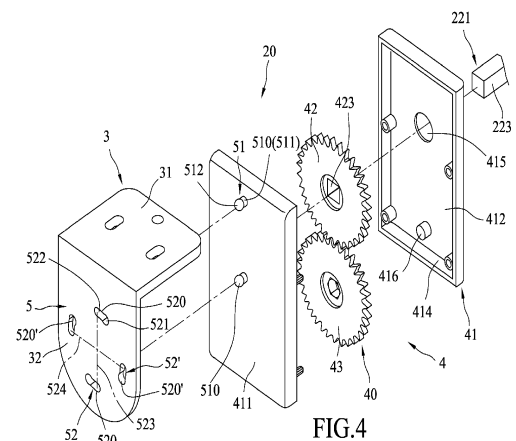
Applicant: Lin, Ya-Yin, 3F.-1, No. 46 Andong 1st Street West District, Chiayi City 60084, TW

Inventor: Lin, Ya-Yin, 3F.-1, No. 46 Andong 1st Street West District, Chiayi City 60084, TW

Prio: TW 20140218 103105265

Appl.No: EP14169041

IPC: E06B 9/42 2006.01 (IA)



A covering system for crops

A covering system for crops comprising a covering element (2; 102) capable of being disposed in a first unfolded position and in a second folded position wherein a first band (3; 103) and a second band (4; 104) of said covering element (2; 102) are closer one to the other to collect in a limited space the intermediate portion (5) of said covering element (2; 102). The covering system comprises a substantially filiform element (10; 110) arranged as a line that alternately connects a plurality of first portions (11; 111) of the first band (3; 103) with a plurality of second portions (12; 112) of the second band (4; 104), the traction of one end (14) of the filiform element (10; 110) causing the approach of the second band (4; 104) to the first band (3; 103) so as to collect between them the intermediate portion (5).

Publication: [EP 2910109 A1 20150826](#)

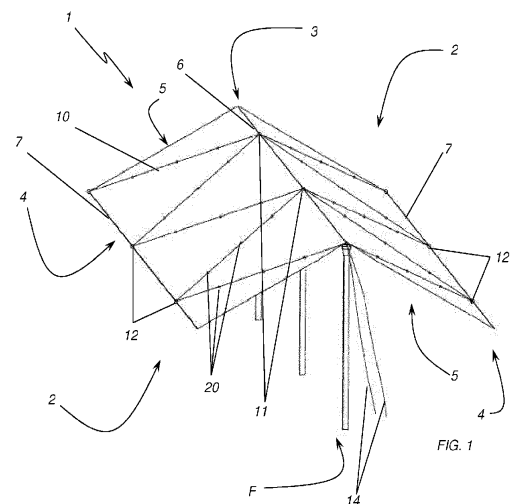
Applicant: Valente S.R.L., Via L. Galvani 2/4, 35011
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Inventor: Valente, Alessandro, Via Bachelet 7/6, 35011
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Prio: IT 20140219 VI20140043

Appl.No: EP15153097

IPC: A01G 13/00 2006.01 (IA)



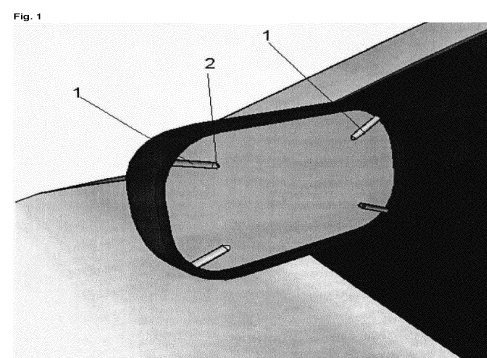
TECHNICAL ARRANGEMENT FOR AIR SYSTEMS INTENDED FOR WING MIRRORS AND WINDOWS

The present invention refers to a technical arrangement introduced in an air system for wing mirrors and car glasses; the object thereof refers to a novel and versatile cleaning and defogging system for wing mirrors and car glasses, and for other similar items which, thanks to a jet of natural or compressed air, demists and eliminates water droplets from wing mirrors and glasses of the motor vehicle; the device comprises an electrical motor, pipes and a (flexible) metal or plastic nozzle. The motor may be housed inside the wing mirror assembly or inside the vehicle. The pipes (that are made of a flexible metal or plastic material) will be connected to the motor and arranged around the mirrors or, in the case of the glasses, they will be fixed to the frames where the glasses are fixed. The air flows through a nozzle (installed at the end of the pipe and close to the mirror and/or the glass). When the air jet is triggered, the water droplets are dispersed, thereby improving the driver visibility. It should be noted that this air system for wing mirrors and car glasses has two configurations, one of them for private cars, which is operated by means of an electrical motor, and another one for trucks, which uses the compressed air already available, although excellent results are guaranteed in both cases. Consequently, a very practical product has been developed, that will solve all the problems related to the demisting and elimination of water accumulated in the wing mirrors and car glasses of practically any motor vehicle, and which is also very easy to install, as it is a very simple device.

Publication: [EP 2910426 A1 20150826](#)

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Prio: BR 20120906 202012225366 U
Appl.No: EP13835137
IPC: B60R 1/06 2006.01 (IA)

Insulating window frame

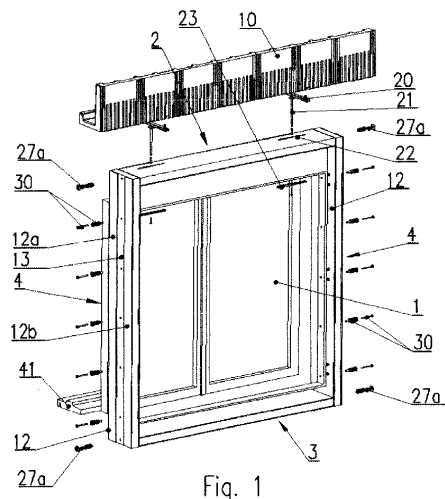
The invention relates to an insulating window frame built in a window opening, and that frame hampers heat flow between the building wall and the window frame. This frame may be used to install windows in conventional and skeleton buildings, especially in energy-saving and passive ones. A insulating window frame comprising longitudinal insulation covers which adhere on a perimeter basis to the window frame and to the window opening in a building wall, characterized in that the insulation covers (2, 3, 4) adhere to the jamb (8) of the window opening (5) within the load-bearing layer (9) of the wall (6), wherein the upper insulation cover (2) adheres from below to the beam lintel (10), which delimits the window opening (5) from above.

Publication: [EP 2910723 A1 20150826](#)

Applicant: Bruzi, Krzysztof, Fabianow ul. Nowa 15, 63-330 Dobrzyca, PL; Bruzi, Renata, Fabianow ul. Nowa 15, 63-330 Dobrzyca, PL

Inventor: Bruzi, Krzysztof, Fabianów, ul. Nowa 15, 63-330 Dobrzyca, PL; Bruzi, Renata, Fabianów, ul. Nowa 15, 63-330 Dobrzyca, PL

Prio:
Appl.No: EP14460007
IPC: E06B 1/02 2006.01 (IA)



Frame filled with a heat insulation material and method for producing the same

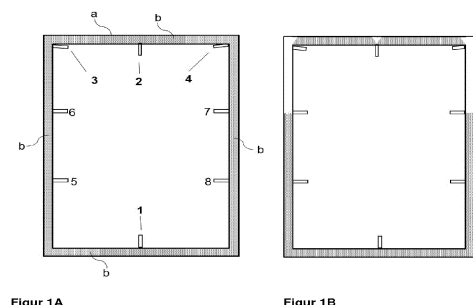
Mit einem wärmedämmenden Material gefülltes Hohlprofil eines Rahmens, bei dem das Hohlprofil so zusammengefügt ist, dass die Hohlräume aller Rahmenseiten untereinander in leitender Verbindung stehen und das Hohlprofil verschließbare Öffnungen aufweist, wobei a) die verschließbaren Öffnungen a1) mindestens eine Öffnung (1) am unteren Profil, a2) mindestens eine Öffnung (2) am oberen Profil, und a3) jeweils mindestens eine Öffnung (3) und Öffnung (4) jeweils an den seitlichen Profilen in der Ecke zum oberen Profil umfassen, und b) das wärmedämmende Material b1) ein schüttfähiges Material ist, b2) eine Kieselsäure enthält und b3) das Hohlprofil des Rahmens zu wenigstens 95% ausfüllt.

Publication: [EP 2910724 A1 20150826](#)

Applicant: Evonik Degussa GmbH, Rellinghauser Straße 1-11, 45128 Essen, DE

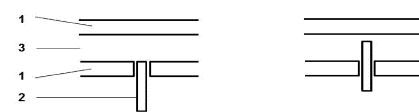
Inventor: Schäffner, Dirk, Wünschelstr. 13, 76756 Bellheim, DE; Herr, Ann-Kathrin, Weserstraße 5, 63452 Hanau, DE; Gärtner, Gabriele, Im Ranzeneck 3, 63454 Hanau, DE; Asbahr, Hark-Oluf, Raiffeisenstr. 3, 67161 Gönheim, DE; Menzel, Frank, Kapellenweg 19, 63456 Hanau, DE; Geisler, Matthias, Goethestr. 26, 63538 Großkrotzenburg, DE

Prio: DE 20140220 102014203091
Appl.No: EP15154600
IPC: E06B 3/263 2006.01 (IA)



Figur 1A

Figur 1B



Figur 2A

Figur 2B

CASING FOR A ROLLING CONCEALMENT MEANS

Caisson destiné à recevoir le mécanisme d'enroulement d'un moyen roulant d'occultation et/ou d'obscurcissement d'une ouverture, notamment un volet roulant, ledit caisson comprenant une paroi de fond, une paroi de façade, une paroi supérieure et une paroi inférieure orientées perpendiculairement à au moins une joue (2) destinée à fermer ledit caisson en l'une de ses extrémités, dans lequel ladite au moins une joue (2) comprend un fond (20), un rebord s'étendant à la périphérie de la joue (2) à l'exception du bord de façade, le rebord formant respectivement un rebord inférieur (21), un rebord supérieur (22) et un rebord de fond (23), destinés respectivement à venir coopérer avec ladite paroi de fond, ladite paroi supérieure et ladite paroi inférieure, ledit caisson présentant des moyens d'étanchéité comprenant : - un premier joint (3) s'étendant le long desdits rebords (21 à 23) de ladite joue (2) de telle façon à réaliser l'étanchéité entre ladite joue (2) et lesdites parois de fond, inférieure et supérieure, - un embout d'étanchéité, amovible, comprenant une première surface, destinée à venir en butée avec ladite paroi de façade, et une deuxième surface, perpendiculaire à ladite première surface et formant un décrochage, destinée à venir en butée contre la joue (2), - un deuxième joint (5) s'étendant sur les deux surfaces de telle façon à assurer la fermeture étanche entre ladite paroi de façade et ladite joue (2) et coopérant avec ledit premier joint (3) de telle façon à assurer l'étanchéité dudit caisson.

Publication: [EP 2910725 A1 20150826](#)

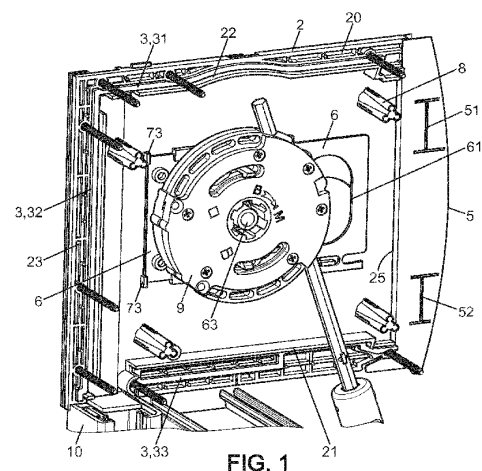
Applicant: Deprat Jean SA, Société Anonyme 139 rue des Arts, 59100 Roubaix, FR

Inventor: Kimpe, Florent, 139 rue des Arts, 59100 ROUBAIX, FR; Castell, Mathias, 139 rue des Arts, 59100 ROUBAIX, FR; Wirth, Simon, 139 rue des Arts, 59100 ROUBAIX, FR

Prio: FR 20140219 1451334

Appl.No: EP15155407

IPC: E06B 9/17 2006.01 (IA)



Light adjusting roller blind device and method for mounting the same

A light adjusting roller blind device has a support assembly (10), and a driving assembly (20), an adjusting mechanism (30) and a blind assembly (40) mounted on the support assembly (10). A blind (41) of the blind assembly (40) can be adjusted by simply detaching a second holding part (35) from a first holding part (34) and then releasing a first rope (36). The blind (41) can be stably lowered along with the releasing of the first rope (36). Therefore, it is easy and convenient for the user to adjust the blind (41) of the light adjusting roller blind device.

Publication: [EP 2910726 A1 20150826](#)

Applicant: K.E. & Kingstone Co., Ltd., 6F., No. 120, Sec. 2 Jianguo N. Road Zhongshan District, Taipei City, TW

Inventor: Huang, Wen-Chong, 6F, No. 2, Sec. 3, Mingsheng E. Rd., Taipei, TW

Prio:

Appl.No: EP14155765

IPC: E06B 9/42 2006.01 (IA)

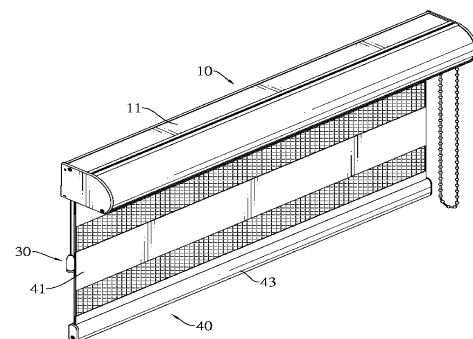


FIG.1

PROCESS FOR PRODUCING A HOLLOW DOOR ELEMENT FOR A DOOR LEAF COMPOSED OF A HOLLOW ELEMENT AND A COVER ELEMENT

Verfahren zur Herstellung eines Türblatt-Kastens (10) eines aus Kasten (10) und Deckel gebildeten Türblatts, mit: a) Bereitstellen eines Metallblechs (34) und Ausformen eines ersten Randstreifens (16) und eines zweiten Randstreifens (18) des Metallblechs (34) b) Umbiegen des ersten Randstreifens (16) zum zumindest teilweise Bilden einer oberen oder unteren Stirnseite (20) des Türblatts, c) Umbiegen des zweiten Randstreifens (18) zum zumindest teilweise Bilden einer seitlichen Schmalseite (22) des Türblattes, d) Verschweißen der beiden Randstreifen (16, 18) in einem Eckbereich (8) des Kastens (10), wobei die Reihenfolge der Schritte b) und c) beliebig ist, und wobei die beiden Randstreifen (16, 18) an einem Stoßbereich (52), in dem die Randstreifen (16, 18) über Eck aneinander stoßen, ohne Einsatz von Laschen direkt miteinander verschweißt werden, dadurch gekennzeichnet, dass wenigstens einer der Randstreifen (16, 18) durch Stanzen ausgeformt wird, wobei an einer zu verschweißenden Seitenkante (44) eines der Randstreifen (16, 18), welche Seitenkante (44) nach Durchführung der Schritte b) und c) auf einen anderen Bereich (18) des Metallblechs (34) stößt, gleichzeitig mit dem Stanzen des Randstreifens (16, 18) Schweißbuckel (48) ausgebildet werden.

Publication: [EP 1664473 B1 20150819](#)

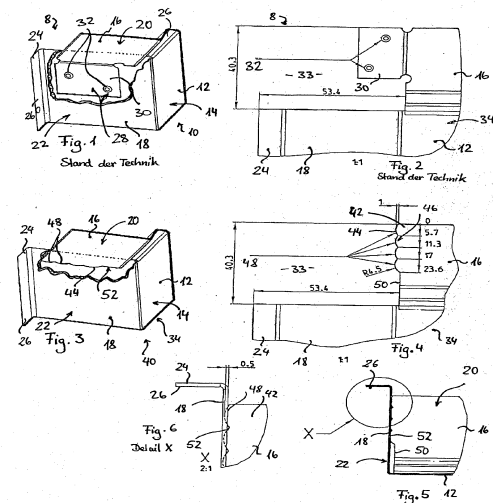
Applicant: Hörmann KG Brandis, Gewerbeallee 17, 04821 Brandis, DE

Inventor: RENTSCH, Manfred, Mühlenweg 56, 04827 Machern, DE

Prio: DE 20040624 102004030656

Appl.No: EP5755169

IPC: E06B 3/82 2006.01 (IA)



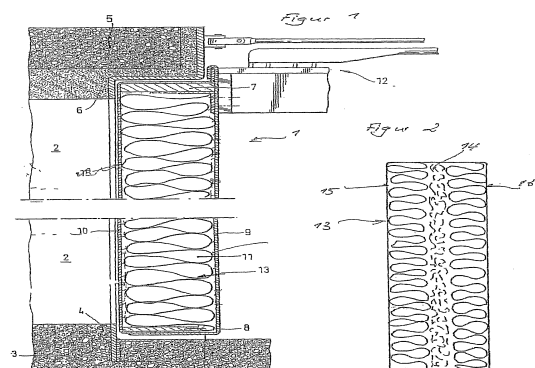
FIRE-PROOF DOOR AND FIRE-PROOF INSERT THEREFOR

Feuerschutztüre (1), die eine normative Feuerwiderstandsklasse oder dergl. aufweist, mit einem umfangseitigen Rahmenwerk und beidseitigen Stahlblechschalen (9, 10), zwischen denen eine Feuerschutzeinlage (13) mit einer Temperaturbeständigkeit zur Einhaltung der Anforderungen der normative Feuerwiderstandsklassen oder dergl. eingesetzt ist, welche aus mindestens einem Dämmelement in Form einer durch ein Bindemittel verfestigten Platte aus in einem physiologischen Milieu löslichen Mineralfasern gebildet ist, dadurch gekennzeichnet, dass die Zusammensetzung der Mineralfasern des Dämmelements ein Alkali/Erdalkali-Massenverhältnis < 1 aufweist, und dass die Faserstruktur des Dämmelements bestimmt ist durch einen mittleren geometrische Faserdurchmesser $\leq 4 \mu\text{m}$, einen Anteil des Bindemittels bezogen auf die Masse des Fasergehalts des Dämmelements im Bereich von 1 bis 3 Gew.-% und eine Rohdichte im Bereich von 60 bis 130 kg/m^3 , wobei die Rohdichte bei einer Feuerwiderstandsklasse T30 oder dergl. 60 bis 80 kg/m^3 , vorzugsweise 70 kg/m^3 , bei einer Feuerwiderstandsklasse T60 oder dergl. 80 bis 110 kg/m^3 , vorzugsweise 100 kg/m^3 , und bei einer Feuerwiderstandsklasse T90 oder dergl. 110 bis 130 kg/m^3 , vorzugsweise 120 kg/m^3 , beträgt.

Publication: [EP 1680372 B1 20150819](#)

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Inventor: KELLER, Horst, Im Grund 20, 69259 Wilhelmsfeld, DE; BEYER, Ralph, Kurze Strasse 4, 19326 Weisin, DE; BERNARD, Jean-Luc, 51, rue André Oudin, F-60600 Giancourt Breuil Le Vert, FR; AMANNT, Gerald, Avenue des Crousaz 2 F, 1010 Lausanne, CH



Prio: EP 20031006 03022609, FR 20040107
0400084
Appl.No: EP4765795
IPC: C03C 13/00 2006.01 (IA)

Closure device having jointed closure elements and vehicle having at least one such closure device

Verschlussvorrichtung (2), die dazu bestimmt ist, eine Öffnung (4) dicht zu verschließen, insbesondere gegen Feuchtigkeit und Staub, die seitliche Abdichtmittel (22) und mehrere Verschlusselemente umfasst, insbesondere Lamellen (61, 62), die in Paaren angelenkt sind, wobei Längsränder (6'1, 6'2) von zwei gegenüberliegenden Verschlusselementen mindestens eine Zwischenanlenkzone (16) definieren, dadurch gekennzeichnet, dass die Verschlussvorrichtung außerdem mindestens ein Abdichtblatt umfasst, das beim Betrieb einen wesentlichen Teil einer oder jeder Zwischenanlenkzone abdeckt, wobei auf dem seitlichen Ende des Abdichtblatts (20) seitliche Abdichtmittel (22) sitzen.

Publication: **EP 1719652 B1 20150819**

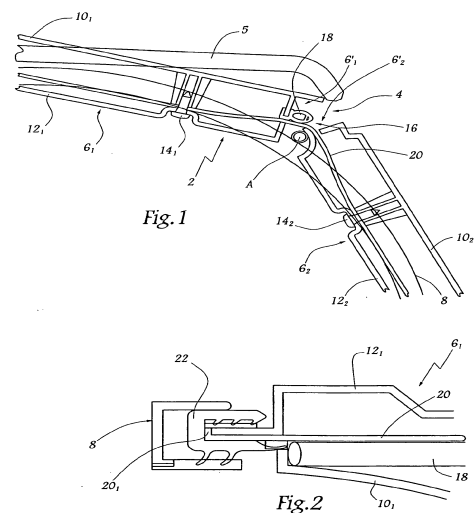
Applicant: Peugeot Citroën Automobiles SA, Route de Gisy, 78140 Vélizy-Villacoublay, FR; Megatech Industries Amurrio S.L., Pol. Ind. Kalzadako, 01468 Amurrio/Alava, ES

Inventor: Guinois, Pascal Gaston Yves, 111, rue de la Libération, 91680 Bruyeres le Chatel, FR; Brocal, Sylvain, 1bis, rue des Fougères, 90400 Dorans, FR; Gonzalez, Jesus, Av. de Castilla N° 11 Esc Izp Piso 1°D, Guadalajara, ES

Prio: FR 20050503 0504494

Appl.No: EP6356052

IPC: B60J 5/14 2006.01 (IA)

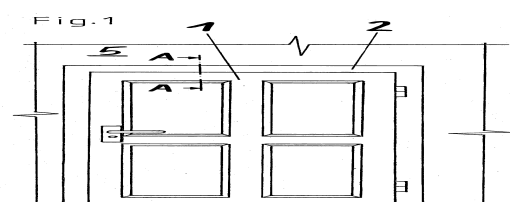


Security door with door frame

Anordnung umfassend eine Schutztür (1) und eine zugehörige Türzarge (2), wobei an der Schutztür (1) oder an der Türzarge (2) ein wärmedehnungsbetätigtes Verriegelungsorgan (3) angeordnet ist, welches bei einer Erwärmung im Brandfall einen Formschluss in Türöffnungsrichtung (O) zwischen der geschlossenen Schutztür (1) und der Türzarge (2) erzeugt, wobei das Verriegelungsorgan (3) ein beweglich an der Schutztür (1) oder an der Türzarge (2) gelagertes Bauteil (3) ist, welches bei Erwärmung im Brandfall mittels eines separat ausgebildeten, auf dem Effekt der Wärmedehnung basierenden, bimetalischen Betätigungsorgans (4) von einer Ruheposition in eine Verriegelungsposition bewegt wird, und wobei das Verriegelungsorgan (3) ein Riegelbolzen (3) ist, welcher im Brandfall durch das Betätigungsorgan (4) axial verschoben wird, wobei das Verriegelungsorgan (3) an einer Stirnfläche der Schutztür (1) oder an einer bei geschlossener Schutztüre (1) einer Stirnfläche derselben gegenüberliegenden Innenfläche der Türzarge (2) derartig angeordnet ist, dass es im Brandfall im wesentlichen quer zur Türöffnungsrichtung (O) bewegt wird, wobei das Betätigungsorgan (4) als Bimetall-Lasche (4) ausgebildet ist, welche an einem ihrer beiden Enden fest mit der Schutztür (1) oder der Türzarge (2) verbunden ist und an ihrem anderen Ende mit dem Verriegelungsorgan (3) gekoppelt ist, dadurch gekennzeichnet, dass das Betätigungsorgan (4) aussen auf der Stirnfläche der Schutztür (1) oder auf der die Türöffnung begrenzenden Innenfläche der Türzarge (2) angeordnet ist, und dass das Verriegelungsorgan (3) als Riegelbolzen (3) mit einem im Querschnitt sprunghaft reduzierten Bereich, insbesondere mit einer umlaufenden Nut, ausgebildet ist und die Bimetall-Lasche (4) einen endseitigen Schlitz (8) aufweist, in welchem der im Querschnitt re... (+54)

Publication: **EP 1726769 B1 20150826**

Applicant: Jansen AG, Industriestrasse 34, 9463 Oberriet, CH



Inventor: Vetter, Rudolf, Im Hebler 3, 9450 Altstätten,
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Prio:

Appl.No: EP5011072

IPC: E06B 5/16 2006.01 (IA)

METHOD AND APPARATUS FOR DIRECTIONALLY CONTROLLING A MOVABLE PARTITION

System zum direktionalen Steuern von wenigstens einer beweglichen Abtrennung (102), wobei das System eine Vorrichtung (130) umfasst, die Folgendes umfasst: ein Rahmenelement (142), das zum Koppeln mit einem Teil von wenigstens einer beweglichen Abtrennung (102) konfiguriert ist; und wenigstens eine Rollenbaugruppe (144), die mit dem Rahmenelement (142) gekoppelt ist und wenigstens ein Rollenelement (56) umfasst; dadurch gekennzeichnet, dass die Vorrichtung ferner einen Lenkaktuator (150) umfasst, der mit der wenigstens einen Rollenbaugruppe (144) wirkgekoppelt und zum Verändern einer Orientierung der wenigstens einen Rollenbaugruppe (144) relativ zu dem Rahmenelement (142) konfiguriert ist; wobei das System ferner Folgendes umfasst: wenigstens einen Sensor (146), der so positioniert und konfiguriert ist, dass er eine Orientierung wenigstens eines Teils der wenigstens einen beweglichen Abtrennung (102) relativ zur Vertikalen bestimmt und ein diese repräsentierendes Signal erzeugt; und eine Steuerung (148), die zum Empfangen des Signals von dem wenigstens einen Sensor (146) und zum selektiven Steuern des Betriebs des Lenkactuators (150) als Reaktion auf das Signal von dem wenigstens einen Sensor konfiguriert ist.

Publication: [EP 1738049 B1 20150812](#)

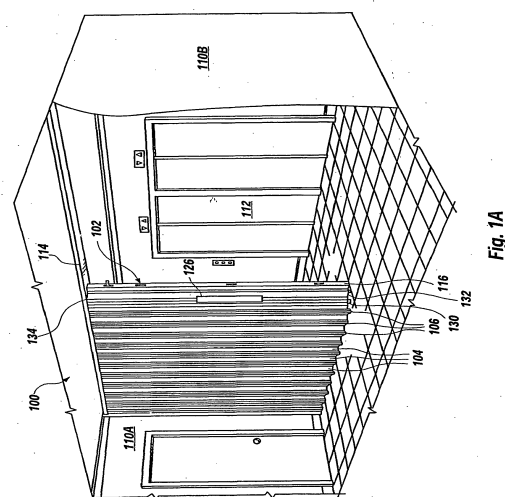
Applicant: WON-DOOR CORPORATION, 1865 South 3480
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Inventor: GOODMAN, E., Carl, 3205 South 975 East,
Bountiful, UT 84010, US; BANTA, Kevin, D.,
5810 West 10400 North, Highland, UT 84003,
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William, Michael, 2863 South Lakeview Drive,
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Prio: US 20040402 558944 P

Appl.No: EP5732644

IPC: E05F 15/605 2015.01 (IA)

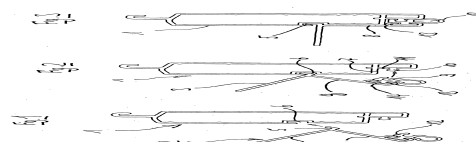


Split angular bottom bar

Winkelendstab für einen Rollladenbehang, mit einem Endstabprofil (1) und einem abnehmbaren Anschlagprofil (2), das einen Anschlagabschnitt (3) zur Begrenzung des Aufwickelns des Rollladenbehangs und einen mit dem Endstabprofil (1) verbundenen Trägerabschnitt (4) aufweist, wobei das Endstabprofil (1) eine oberseitig hinterschnittene Seitenwandausnehmung (6) und der Trägerabschnitt (4) einen in die Seitenwandausnehmung (6) einhängbaren, oberen Vorsprung (5) aufweisen, so dass das Anschlagprofil (2) bei der Montage zur Erreichung seiner Endstellung lediglich mit seinem oberen Vorsprung (5) in die Seitenwandausnehmung (6) eingesteckt und in die Endstellung verschwenkt werden muss, was schon durch sein Eigengewicht unterstützt wird, dadurch gekennzeichnet, dass unterhalb der Seitenwandausnehmung (6) eine weitere Verbindung des Trägerabschnitts (4) auf der Außenseite des Endstabprofils (1) vorgesehen ist und der Trägerabschnitt (4) einen an den oberen Vorsprung (5) anschließenden, an einer Seitenwand des Endstabprofils (1) anliegenden Anlageabschnitt (8) und einen wiederum daran anschließenden unteren Vorsprung (12, 13) aufweist und somit einen Teil des Endstabprofils (1) mehrseitig umgreift.

Publication: [EP 1775414 B1 20150819](#)

Applicant: ROMA KG, Ostpreussenstrasse 9, 89331
Burgau, DE



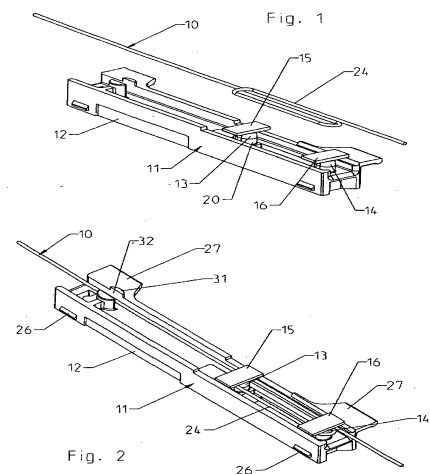
Inventor: Holzbock, Michael, Von-Knöringen-Strasse 5,
89343 Jettingen-Scheppach, DE
Prio: DE 20051012 102005049330
Appl.No: EP6020669
IPC: E06B 9/17 2006.01 (IA)

Cord tensioner for tensioning cords of shading devices and shading device

Schnurspanner zum Spannen einer Schnur (10) einer Verschattungsanlage, insbesondere Plisee oder (Raff-) Rollos, mit einer Feder (19) und ein wenigstens einem Ende der Feder (19) zugeordneten Umlenkmittel (13) sowie einem weiteren Umlenkmittel (14) für die Schnur (10), dadurch gekennzeichnet, daß die Umlenkmittel (13, 14) in einer ersten Position über einem Gehäuse (12) hervorstehen, derart, daß die Schnur (10) problemlos mit einer Bucht (24) um die Umlenkmittel (13, 14) herum gelegt werden kann und in einer zweiten Position mit der Oberseite ihrer Abdeckungen (15, 16) bündig mit dem Gehäuse (12) abschließen, so daß die Schnur (10) gegen Abrutschen von den Umlenkmitteln (13, 14) gesichert ist.

Publication: [EP 1783318 B1 20150819](#)

Applicant: Hunter Douglas Industries Switzerland GmbH,
Adligenswilerstrasse 37, 6006 Luzern, CH
Inventor: Gramsch, Wilfried, Bördestrasse 4, 27616
Beverstedt, DE; Tants, Guido, Specken 12,
27632 Midlum, DE; Wünsche, Jens, Stargarder
Strasse 6, 27574 Bremerhaven, DE
Prio: DE 20051103 102005052895
Appl.No: EP6123482
IPC: E06B 9/323 2006.01 (IA)

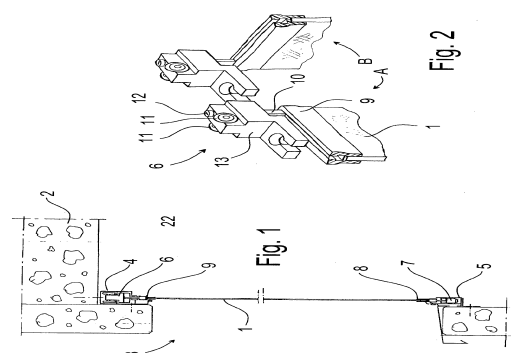


A panel system equipped with a seal

Plattensystem, das zumindest Folgendes umfasst: - eine Platte (14), die zum Aufteilen oder Schutz von Räumen vorgesehen ist, - eine Führungsschiene (16), an welche die Platte gekoppelt ist und entlang welcher die Platte (14) bewegt werden kann, und - ein Dichtprofil (15), welches zur Abdichtung des Zwischenraums zwischen der Platte (14) und der Führungsschiene (16) vorgesehen ist und welches derart an die Platte (14) gekoppelt ist, dass das Dichtprofil (15) relativ zu der Platte (14) und der Führungsschiene (16) beweglich ist, und - ein Führungsbauteil (17), durch welches die Platte (14) an die Führungsschiene (16) gekoppelt ist und welches derart an der Platte (14) befestigt ist, dass das Führungsbauteil (17) relativ zu der Platte (14) und der Führungsschiene (16) beweglich ist, wobei das Führungsbauteil (17) auch derart an das Dichtprofil (15) gekoppelt ist, dass das Führungsbauteil (17) den Abstand zwischen dem Dichtprofil (15) und der Platte (14) beeinflusst, wenn sich das Führungsbauteil (17) entlang der Führungsschiene (16) bewegt, dadurch gekennzeichnet, dass das Plattensystem auch Folgendes umfasst: - ein Führungsstück (27), welches an die Führungsschiene (16) gekoppelt ist und das Führungsbauteil (17) in die Führungsschiene (16) drückt und das Führungsbauteil (17) von der Führungsschiene (16) wegführt, wenn das Führungsbauteil (17) durch das Führungsstück (27) hindurchgeht.

Publication: [EP 1892364 B1 20150812](#)

Applicant: Lumon Invest Oy, Kaitilankatu 11, 45130
Kouvola, FI
Inventor: Hilliäho, Esa, Vehnäpellontie 59 B, 45360
VALKEALA, FI
Prio: FI 20060816 20065516
Appl.No: EP7397027



IPC: E06B 3/46 2006.01 (IA)

FIRE-RESISTANT GLASS AND METHOD FOR THE PRODUCTION THEREOF

Brandschutzglas (100) umfassend eine Mehrzahl von parallel zueinander angeordneten Glasscheiben (110-1, 110-2, 110-3) mit zwischen benachbarten Glasscheiben eingelagertem Brandschutz-Material (120-1, 120-2) und mit einer Dichtungsschicht (130) zum Abdichten der freien Oberflächen (122-1, 122-2) des Brandschutz-Materials (120-1, 120-2), welche im Bereich von Stirnflächen des Brandschutzglases (100) ausgebildet ist, dadurch gekennzeichnet, dass die Dichtungsschicht (130) im wesentlichen ausschließlich im Bereich der Stirnflächen des Brandschutzglases (100) ausgebildet ist und aus einem Silan/Epoxid-Klebe-Dichtstoff besteht, wobei das Brandschutz-Material umfasst ein Wasserglas, Wasser und andere Zusatzstoffe.

Publication: **EP 1893545 B1 20150812**

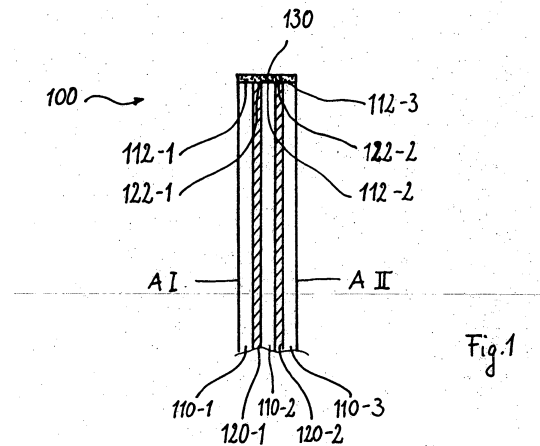
Applicant: Pilkington Deutschland AG, Haydnstrasse 19, 45884 Gelsenkirchen, DE

Inventor: SCHRÖDERS, Theo, Gerhard-Welter-Strasse 11, 41812 Erkelenz, DE; SCHERRER, Kurt, Weihermatte 20, CH-6205 Sempach, CH
DE 20050613 102005027404

Prio: DE 20050613 102005027404

Appl.No: EP6754331

IPC: C03C 27/10 2006.01 (IA)



Adjustable drive coupling for adjacent architectural coverings

Kraft übertragende Kupplung (30) für antriebsmäßiges Kuppeln von Wickelvorrichtungen von benachbarten Gebäudeabdeckungen, wobei die Kupplung Folgendes aufweist: ein erstes Kupplungselement (31); ein zweites Kupplungselement (33); dadurch gekennzeichnet, dass die Kupplung (30) ferner Eingriffspaarungsmittel (81, 83) auf den ersten und zweiten Kupplungselementen (31, 33) aufweist, die angepasst sind zum Bewirken einer Eingriffspaarung zwischen dem ersten und zweiten Kupplungselement (31, 33), um eine Antriebskraft von einem des ersten und zweiten Kupplungselements (31, 33) auf ein anderes des ersten und zweiten Kupplungselements (31, 33) zu übertragen; das zweite Kupplungselement (33) eine Nabe (71) aufweist; Eingriffspaarungsmittel (83) auf dem zweiten Kupplungselement (33) ringförmig auf dem zweiten Kupplungselement (33) auf einem radialen Abstand von der Nabe angeordnet und elastisch mit der Nabe (71) verbunden sind; und die elastische Verbindung integriert mit dem ringförmigen Eingriffspaarungsmittel (83) und der Nabe (71) ausgebildet ist.

Publication: **EP 1936107 B1 20150812**

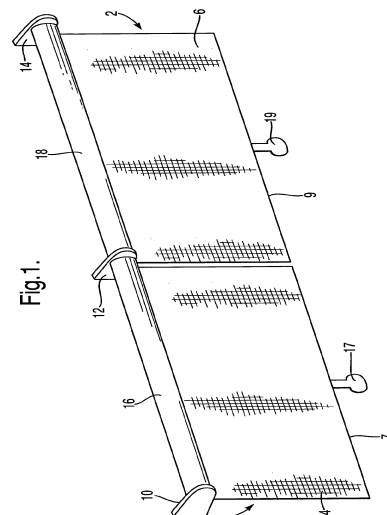
Applicant: HUNTER DOUGLAS INDUSTRIES B.V., Piekstraat 2, 3071 EL Rotterdam, NL

Inventor: Koop, Lars, Schiffdorfer Grenzweg 34, 27574 Bremerhaven, DE; Bohlen, Jörg, Am Ritzeberg 7, 27607 Langen, DE

Prio: EP 20061221 06026520

Appl.No: EP7254911

IPC: E06B 9/50 2006.01 (IA)



SAFETY DEVICE FOR ROLLER BLINDS, SUN, AWNINGS, GATES OR THE LIKE

Barriere mit einer Schutzvorrichtung (50) für Barrieren, die entlang eines Betriebspfades bewegbar sind und durch einen Motor betätigt werden, wie zum Beispiel Rollläden, Tore oder dergleichen, mit: - einem Teil (30), der hinsichtlich der Bewegung der Barriere fixiert ist; - einer kinematischen Kette (24, 23, 22, 70), durch die der feste Teil mit der Barriere mit einem Spiel verbunden wird, wobei die Barriere unabhängig von der Wirkung des Motors über einen Fahrbereich (98) bewegbar ist; - einer Erfassungseinrichtung (42, 95), um entlang des Fahrbereiches (98) die relative Position des festen Teils (30) und der Barriere zu erfassen; - einer mit der Erfassungseinrichtung und dem Motor verbundenen Verarbeitungseinheit (99), die Positionsdaten von der Erfassungseinrichtung (42, 95) akquiriert und dazu geeignet ist, den Motor zum Bewegen der Barriere entlang des Betriebspfades zu betätigen und die Wirkung des Motors und/ oder die Bewegung der Barriere zu hemmen oder umzukehren, wenn die Barriere entlang des Fahrbereiches (98) keine etablierte Position hat, die durch die Erfassungseinrichtung erfasst wird, des Weiteren gekennzeichnet durch: einen Speicher in der Verarbeitungseinheit (99), der ein Satz Sicherheitspositionen entlang des Fahrbereiches enthält, die in dem Speicher gespeichert sind und bi-eindeutig mit einem gespeicherten Positionssatz der Barriere entlang des Betriebspfades verknüpft sind; wobei die Verarbeitungseinheit (99) außerdem zu Folgendem angepasst ist: Akquirieren der gegenwärtigen Position der Barriere entlang des Betriebspfades; Erfassen, wann die Barriere einen entsprechenden Punkt erreicht, der zu dem gespeicherten Positionssatz der Barriere entlang des Betriebspfades gehört; Vergleichen der Istposition der Barriere entlang des Fahrbereiches (98), die durch die Erfassungseinrichtung erfasst wird, mit einem Wert, der mit dem Satz Sicherheitspositionen in dem Speichern verknüpft ist, und der mit dem Punkt... (+937)

Publication: [EP 1945901 B1 20150805](#)

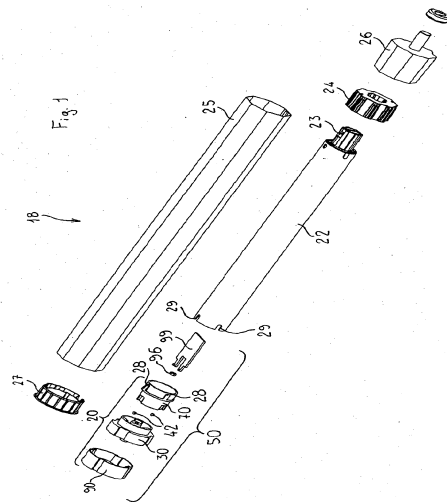
Applicant: NICE S.P.A., Via Pezza Alta 13, 31046 Oderzo (Treviso), IT

Inventor: MARCHETTO, Oscar, Via Cesare Battisti, 3/10, I-31046 Oderzo (Treviso), IT; TOMASELLA, Sergio, Via Ai Comuni, 18, I-31020 San Polo Di Piave (treviso), IT; BORTOLAN, Bruno, Via Chiesa Ponzano, 2, I-31050 Ponzano Veneto (treviso), IT

Prio: IT 20051107 TV20050169

Appl.No: EP6819302

IPC: E06B 9/88 2006.01 (IA)



Seal fixing assembly

Dichtungbefestigungsanordnung (24) zur Befestigung einer Dichtung (32, 34) am Flügel (10) eines Fensters, einer Tür, insbesondere einer Schiebetür, oder dgl. mit einem in eine Beschlagteilaufnahme (11) des Flügels (10) einsetzbaren Adapterprofil (14) und einer Stulpschiene (25), wobei zwischen der Stulpschiene (25) und dem Adapterprofil (14) zumindest eine Dichtungsaufnahme (29, 30) ausgebildet ist, in die ein Befestigungsabschnitt (31) einer Dichtung (32, 34) einsteckbar ist.

Publication: [EP 2045434 B1 20150819](#)

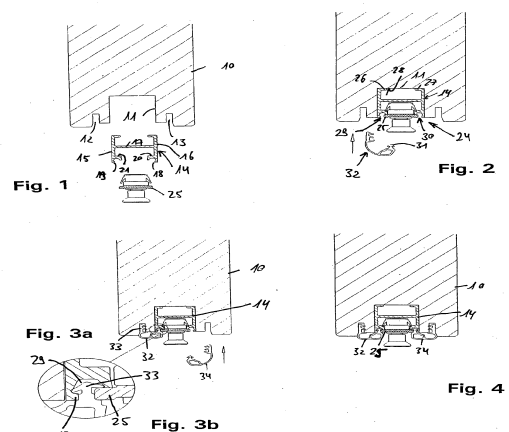
Applicant: ROTO FRANK Aktiengesellschaft, Stuttgarter Strasse 145-149, 70771 Leinfelden-Echterdingen, DE

Inventor: Moog, Christopher, Brückenstrasse 27, 56422 Wirges, DE

Prio: DE 20071004 102007047482

Appl.No: EP8015993

IPC: E06B 7/23 2006.01 (IA)



Ladder with removable step and method of storing the ladder in a compact container

Leiter (10), aufweisend: eine Basis (12) mit einem hinterem Ende und einem vorderen Ende; einem Vertikalträger (16), der an dem hinteren Ende der Basis befestigt ist und sich hiervon vertikal erstreckt; eine Treppenabschnitts-(14)-Einrichtung mit einer Mehrzahl an Stufen (18), befestigt an Längsholmen (20), wobei die Treppenabschnitts-Einrichtung ein vorderes Ende und rückwärtiges Ende hat, wobei das vordere Ende der Treppenabschnitts-Einrichtung an dem vorderen Ende der Basis festgelegt ist; und dadurch gekennzeichnet, dass die Stufen feststehend an den Längsholmen befestigt sind, und dass eine entfernbare Stufe (22) zum Festlegen an dem Treppenabschnitt vorliegt, um so das obere Ende des Treppenabschnitts (14) mit dem Vertikalträger (16) zu verbinden, und wobei aufgrund der abnehmbaren Gestaltung der entfernbaren Stufe ein Lagern der Leiter in einem kompakten Behältnis (100) erleichtert ist.

Publication: [EP 2061946 B1 20150819](#)

Applicant: Ballymore Company, INC., 3135 Lower Valley Road, Parkesburg, PA 19365, US

Inventor: FRAME, William F., 3 Cappa Court, Hockessin, DE 19707, US

Prio: US 20060911 825190 P, US 20070510 746989

Appl.No: EP7841963

IPC: E06C 1/387 2006.01 (IA)

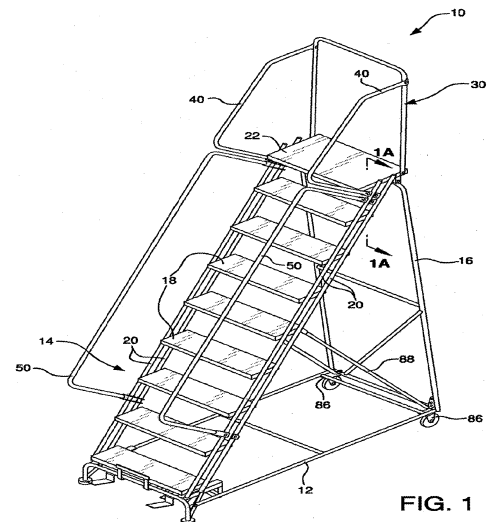


FIG. 1

Rotating shaft assembly for a door, in particular for a roller door and such a door

Drehwellenanordnung (10) für ein Tor (100), insbesondere für ein Rolltor, mit einer Drehwelle (20), die um eine Drehachse (D) drehbar ist, einer an der Drehwelle (20) angreifenden Gewichtsausgleichseinrichtung (30) mit einer Ausgleichscharakteristik zum Ausgleich des Gewichts eines drehfest an der Drehwelle (20) angebrachten Torblattes (110) des Tores (100), wobei die Ausgleichscharakteristik der Gewichtsausgleichseinrichtung (30) dadurch verstellbar ist, dass die Gewichtsausgleichseinrichtung (30) in verschiedenen Positionen relativ zur Drehachse (D) positionierbar und drehfest an der Drehwelle (20) befestigbar ist und wobei eine Einstelleinrichtung (70) vorgesehen ist, über die die Gewichtsausgleichseinrichtung (30) an der Drehwelle (20) angekoppelt ist, wobei die Einstelleinrichtung (70) die verschiedenen Positionen relativ zur Drehachse (D) bereitstellt, wobei die Einstelleinrichtung (70) eine erste Einstelleinheit (80) und eine zweite Einstelleinheit (90) umfasst, wobei die erste Einstelleinheit (80) der Drehwelle (20) und die zweite Einstelleinheit (90) der Gewichtsausgleichseinrichtung (30) zugeordnet ist und wobei die erste Einstelleinheit (80) oder die zweite Einstelleinheit (90) Vorsprünge (82) aufweist, die mit entsprechenden Ausnehmungen (92) der anderen Einstelleinheit (80, 90) formschlüssig verbindbar sind.

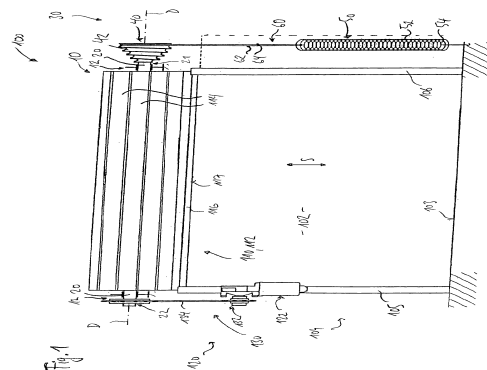
Publication: [EP 2131003 B1 20150812](#)

Applicant: HÖRMANN KG AMSHAUSEN, Upheider Weg 94-98, 33803 Steinhagen, DE

Inventor: Temme, Jörg, Hörmann KG Amshausen Heideweg 1, 33428 Harsewinkel, DE

Prio: DE 20080604 102008026707

Appl.No: EP9161913



IPC: E05F 15/00 2015.01 (IA)

SLIDING DOOR SUBASSEMBLY

Schiebetür-Baugruppe (1) - mit mindestens einer Schiebetür (2), die geführt zu einem Blendrahmen (3) zwischen einer Offenstellung und einer Schließstellung verlagerbar ist, - wobei eine Verlagerungsführung der Schiebetür (2) im Blendrahmen (3) aufweist: -- eine Zwangsführung zwischen einer Unterseite (6) der Schiebetür (2) und einer Oberseite (7) eines bodenseitigen Blendrahmen-Profiles (8), -- eine schwimmende Führung zwischen einer Oberseite (17) der Schiebetür (2) und einer Unterseite eines deckenseitigen Blendrahmen-Profiles (18), die durch seitliche Führungselemente (21, 24) gebildet ist, zwischen denen die Schiebetür (2) deckenseitig unter Spiel in einem Falzbereich (20) des deckenseitigen Blendrahmen-Profiles (18) geführt ist, wobei die schwimmende Führung eine Mehrzahl von Anlageelementen (24) aufweist, die voneinander in Verlagerungsrichtung (25) beabstandete Anlagepositionen (26) der Schiebetür (2) am deckenseitigen Blendrahmen-Profil (18) vorgeben, dadurch gekennzeichnet, dass die Anlageelemente (24) aus einem härteren Material gefertigt sind als das Material derjenigen Komponente (18) der Schiebetür-Baugruppe, an dem die Anlageelemente (24) anliegen.

Publication: **EP 2160502 B1 20150805**

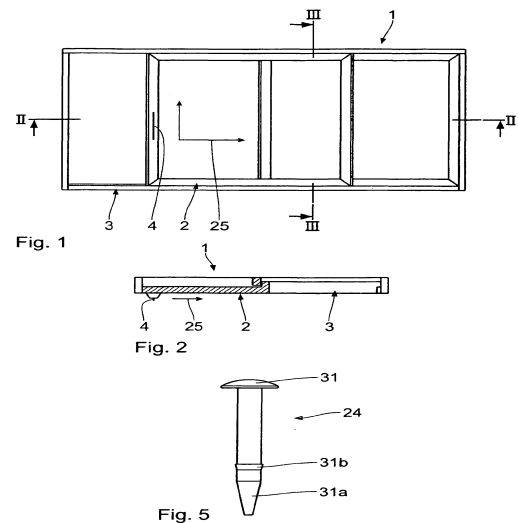
Applicant: Rehau AG + Co, Rheniumhaus, 95111 Rehau, DE

Inventor: ECKERT, Stefan, Bayreuther Strasse 42, 91301 Forchheim, DE; BECKER, Stephan, Reutleser Strasse 60, 90427 Nürnberg, DE

Prio: DE 20070630 202007009217 U

Appl.No: EP8759327

IPC: E06B 3/46 2006.01 (IA)



Connector for hollow spacer profiles in an insulating glass pane

Steckverbinder für Hohlprofile von Abstandhalterrahmen, Sprossen oder dgl. für Isolierglasscheiben, wobei der Steckverbinder (1) einen im wesentlichen U-förmigen oder kastenförmigen Querschnitt mit einem Mittelsteg (5) und Seitenstegen (6) aufweist, an denen ein Einschubanschlag (8) sowie ein oder mehrere nachgiebige, insbesondere federnde Rückhalteelemente (11,12,13) angeordnet sind, dadurch gekennzeichnet, dass neben dem Einschubanschlag (8) am Seitensteg (6) ein Rückhalteelement (14) mit einer höheren Steifigkeit als das nachgiebige, insbesondere federnde Rückhalteelement (11,12,13) angeordnet ist.

Publication: **EP 2281994 B1 20150826**

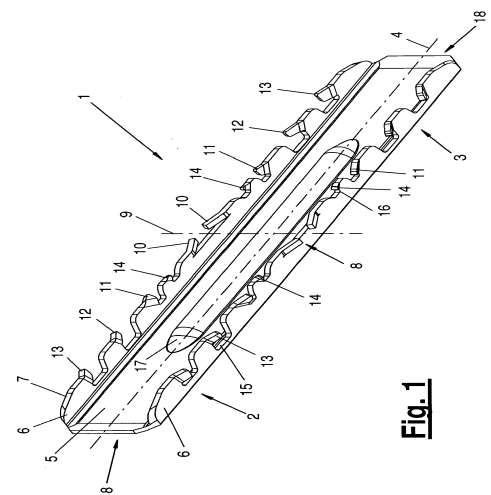
Applicant: Kronenberg, Ralf M., Beethovenstrasse 12, 42781 Haan, DE

Inventor: Kronenberg, Max, Bünkenberg 2, 42657 Solingen, DE; Kronenberg, Ralf M., Beethovenstrasse 12, 42781 Haan, DE

Prio: DE 20090623 202009008694 U

Appl.No: EP10166846

IPC: E06B 3/667 2006.01 (IA)



DOOR DRIVE

Türantrieb mit einem Träger (3), an welchem ein mit einem Türflügel (2) verbundener Schwenkarm (4) sowie Stellmittel jeweils drehbar angelenkt sind, wobei die Stellmittel an dem Schwenkarm (4) derart angreifen, dass dieser durch Betätigung der Stellmittel um eine Schwenkachse (8) herum schwenkbar ist, dadurch gekennzeichnet, dass die Stellmittel einen Schwenkhebel (5) umfassen, welcher mittels dem Träger (3) zugeordneter Antriebsmittel (10) um eine Antriebsachse (9) herum schwenkbar ist, wobei ein freies Ende des Schwenkhebels (5) Eingreifmittel (7) aufweist, welche in eine Linearführung des Schwenkarms (4) gleitend eingreifen.

Publication: [EP 2297421 B1 20150812](#)

Applicant: Kaba Gallenschütz GmbH, Nikolaus-Otto-Strasse 1, 77815 Bühl, DE

Inventor: EICHNER, Harald, Friedhofstraße 19, 77963 Schwanau-Ottenheim, DE

Prio: DE 20080428 102008021147, DE 20080529 102008025757

Appl.No: EP9737752

IPC: E05F 15/63 2015.01 (IA)

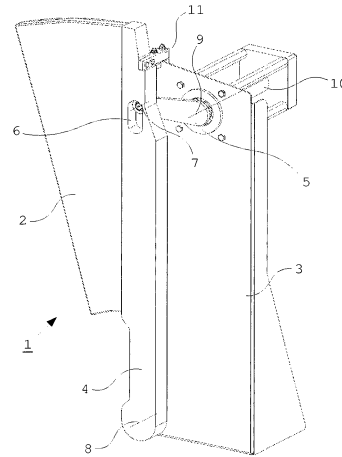


Fig. 1

PROFLED FRAME ELEMENT, CASING, AND GARAGE DOOR FRAME

Rahmenprofil für Garagentorrahmen mit einem Hauptabschnitt (12) und wenigstens einer in Längsrichtung des Rahmenprofils verlaufenden Nut (20, 22) zum Einhängen eines elastischen Dichtprofils (24), wobei der Hauptabschnitt (12) rechteckrohrförmig ausgebildet ist und ein sich von dem Hauptabschnitt (12) im rechten Winkel erstreckender Befestigungsabschnitt (14) sowie ein sich in Verlängerung des Hauptabschnitts (12) erstreckender Blendenabschnitt (16) vorgesehen sind, wobei das Rahmenprofil (10) einstückig ausgebildet ist, wobei der Befestigungsabschnitt sich ausgehend von einer Position am Übergang zwischen Hauptabschnitt (12) und Blendenabschnitt (16) erstreckt und in seiner Erstreckungsrichtung gesehen über den Hauptabschnitt (12) und den Blendenabschnitt (16) hinausragt, dadurch gekennzeichnet, dass der Befestigungsabschnitt (14) plattenförmig ausgebildet ist und dass der Blendenabschnitt (16) in seiner Erstreckungsrichtung gesehen gegenüber dem Befestigungsabschnitt (14) frei vorragt.

Publication: [EP 2304151 B1 20150812](#)

Applicant: Frankentore e.K., Speyerer Straße 25, 74078 Heilbronn, DE

Inventor: CETIN, Yücel, Speyerer Str. 25, 74078 Heilbronn, DE

Prio: DE 20080610 102008029073, DE 20090331 202009005317 U

Appl.No: EP9761459

IPC: E06B 1/52 2006.01 (IA)

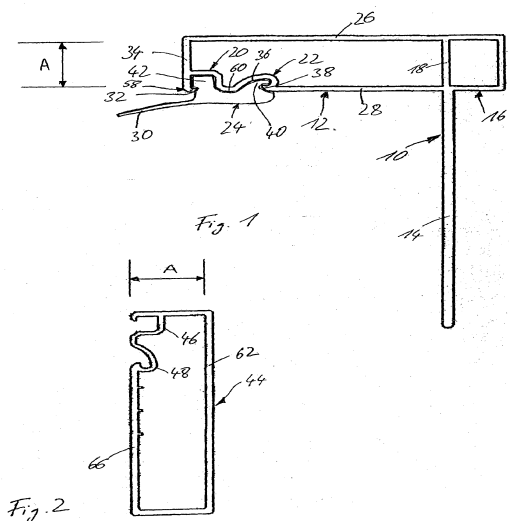


Fig. 2

Guide element for Venetian blinds

Führungsglied (2) für einen Rafflamellenstore mit einer Vielzahl von Lamellen (12, 13), umfassend einen Befestigungsflansch (6), an den sich ein Führungsschaft (4) anschliesst, der in einen Führungsflansch (5) übergeht, dadurch gekennzeichnet, dass der Befestigungsflansch (6) über einander gegenüberliegende Befestigungsoberflächen (61) verfügt, die jeweils für eine Befestigung an einer Lamelle (12, 13) ausgestaltet sind, und dass der Führungsflansch (5) eine im rechten Winkel gegenüber der Achse des Führungsschaftes (4) abragende Nase (5) umfasst, wobei die abragende Nase (5) des Führungsgliedes (2) im Schnitt durch die Achse des Führungsschaftes (4) einen mit der besagten Achse koaxialen zylindrischen Knopfabschnitt (3) verfügt und von diesem abgehend eine dreieckförmige Verdickung (10, 11) umfasst.

Publication: [EP 2312112 B1 20150826](#)

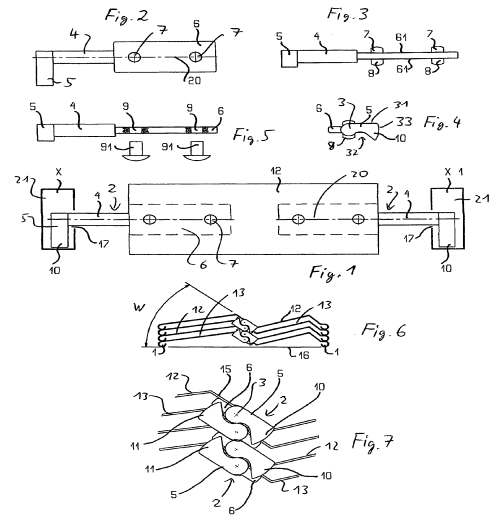
Applicant: Symax GmbH, Schlierenstrasse 16, 8142 Uitikon Waldegg, CH

Inventor: Buser, Franz, Rausen 1, 4446 Buckten, CH

Prio: CH 20091001 15122009

Appl.No: EP10405158

IPC: E06B 9/327 2006.01 (IA)



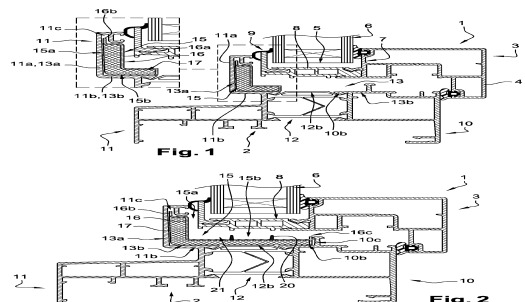
Doors, windows or the like for buildings having means for increasing their insulation

Holzeinfassung für eine Gebäudeöffnung wie etwa ein Fenster, eine Tür oder eine Terrassentür, wobei die Holzeinfassung (1) einen Rahmen (2) aufweist, an dem wenigstens ein Flügel (3) angebracht ist, wobei sich der Rahmen (2) aus metallenen Strukturprofilen zusammensetzt, einem inneren (10) und einem äusseren (11), die miteinander durch ein Profil mit einer Unterbrechung der Wärmebrücke (12) verbunden sind, wobei der Rahmen (2) eine einen L-förmigen Falz bildende innere Oberfläche (13) in Form eines geraden Dieders aufweist, in welcher sich der Flügel (3) bei geschlossener Gebäudeöffnung positioniert, wobei sich der Rahmen (3) aus a) einer in geschlossener Position dem Flügel (3) zugewandten Bodenoberfläche (13b), die - von einer metallenen Wandung des inneren Strukturprofils (10), - einer inneren Oberfläche (12b) des Profils mit Unterbrechung der Wärmebrücke (12) und - einer metallenen Wandung (11b) des äusseren Strukturprofils (11) gebildet ist, und b) einer seitlichen Oberfläche (13a), die dazu bestimmt ist, zum Inneren des Gebäudes hin und bei geschlossener Gebäudeöffnung zum äusseren Teil des Flügels (3) hin gerichtet zu sein, und die von einer metallenen Wandung (11a) des äusseren Strukturprofils (11) gebildet ist, zusammensetzt, wobei die die seitliche Oberfläche (13a) des Falzes bildende metallene Wandung (11a) und die einen Teil der seitlichen Oberfläche des Falzes (13b) bildende metallene Wandung (11b) zueinander senkrecht stehen und wobei der Falz (13) des Rahmens mit wenigstens einem thermisch isolierenden hinzugefügten Profil (15) ausgestattet ist, das wenigstens einen Teil der Oberfläche des Bodens (13b) und der seitlichen Oberfläche (13a) des Falzes (13) des Rahmens bedeckt, und wobei das thermisch isolierende Profil (15) einen Wärmeleitfähigkeitskoeffizienten aufweist, der niedriger ist als jener des metallenen Materi... (+515)

Publication: [EP 2314815 B1 20150826](#)

Applicant: OUEST ALU, Route des Sables d'Olonne, 85500 Les Herbiers, FR

Inventor: Montes, Manuel, 34 Rue de l'Eglise, 85500 Saint Paul en Pareds, FR; Chauvet, Jean, 38 Avenue de Cholet La Sablière, 85500 Les Herbiers, FR; Retif, Vincent, 14 Square Marguerite Yourcenar, 49300 Cholet, FR



Prio: FR 20091026 0905140
Appl.No: EP10306167
IPC: E06B 3/263 2006.01 (IA)

Weaving machines and three-dimensional woven fabrics

Webmaschine (100) zum Weben eines Fasergewebes (T) mit dreidimensionalem Abstand, das zwei äußere Gewebe (F1, F2) und mehrere Zwischenfäden (I), die mit den äußeren Geweben (F1, F2) verbunden sind, umfasst, wobei die Webmaschine Folgendes umfasst: einen Kettfaden-Schussmechanismus (110), der wenigstens zwei Kettbäume (110A, 110B) zum Bereitstellen und Übertragen mehrerer Kettfäden (Y) umfasst; mehrere vertikal angeordnete Litzenfäden (122), die von jedem der Schaftrahmen (120) unterstützt werden, wobei jeder der Litzenfäden (122) eine Litzenöse zum Hindurchlaufen der Kettfäden hat, wobei die Kettfäden (Y) durch die Schaftrahmen (120) angetrieben und in zwei Kettfadenlagen (Y1, Y2) unterteilt sind und wobei ein Webfach (A) zwischen den zwei Kettfadenlagen (Y1, Y2) gebildet ist; einen Aufnahmemechanismus (130) zum Übertragen von Schussfäden, damit sie durch das Webfach (A) verlaufen; einen Anschlagmechanismus (140), um die Schussfäden zu schieben, wobei die Schussfäden und die Kettfäden (Y) ineinander verwoben werden, um die äußeren Gewebe (F1, F2) zu bilden, und wobei sich die Schaftrahmen (120) zwischen dem Kettfaden-Schussmechanismus (110) und dem Anschlagmechanismus (140) befinden; einen Aufwickelmechanismus (160) zum Einstellen und Steuern einer Ausdehnungsdichte des Fasergewebes (T) mit dreidimensionalem Abstand; und einen Fadenhebemechanismus (150), der durch das Webfach (A) verläuft und Anteile der Kettfäden (Y), die als die Zwischenfäden (I) dienen, anhebt, dadurch gekennzeichnet, dass sich der Fadenhebemechanismus (150) in dem Webfach (A) so in Richtung des Aufwickelmechanismus (160) bewegen kann, dass die Anteile der Kettfäden (Y), die als die Zwischenfäden (I) dienen, seitlich gezogen werden.

Publication: [EP 2330238 B1 20150812](#)

Applicant: Taiwan Textile Research Institute, No. 6, Chen-Tian Rd., Tu-Chen City, Taipei Hsien, Taiwan, CN

Inventor: Teng, Yung-Shun, 2F., No. 14-1, Aly. 25, Ln. 61, Sec. 4 Chenggong Rd. Neihu Dist., Taipei City 114, TW; Chang, Li-Yun, 3F., No. 5, Aly. 2, Ln. 6, Heping Rd., Banqiao City Taipei County 220, TW; Tseng, Fen-Lan, 5F., No. 7, Aly. 37, Ln.149, Guoqing Rd., Banqiao City Taipei County 220, TW; Shih, Yang-Ping, 3F., No. 8, Ln. 11, Fugui St., Xindian City Taipei County 231, TW

Prio: TW 20091204 98141578
Appl.No: EP9015895
IPC: D03C 13/00 2006.01 (IA)

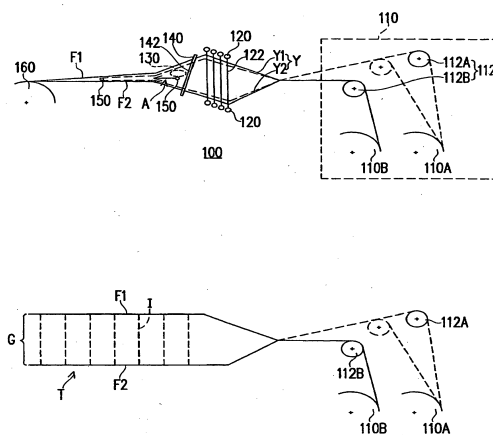


FIG. 1

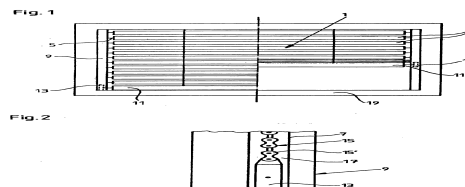
Venetian blind

Lamellenstore (1), umfassend eine Mehrzahl von Lamellen (3), deren Enden mit Führungsstiften (5) in seitlich der Lamellen (3) angeordneten Führungsschienen (9) geführt und mit in einem Kanal (17) in den Führungsschienen (9) gleitenden Aufzugselementen (15) verbunden sind, wobei das untere Ende der Aufzugselemente (15) an einem im Kanal (17) geführten, die Endschiene (11) tragenden Wagen (13) befestigt sind und wobei die Aufzugselemente als Gelenk-Gliederketten (15) ausgebildet sind, dadurch gekennzeichnet, dass die Breite B des Kanals (17) zwischen dem 0,6-fachen und dem 0,8-fachen der Länge l der Kettenglieder (15) beträgt und dass die Kettenglieder (15') bei Auftreffen der Endschiene (11) auf ein Hindernis, bei einem Hochschiebe-Versuch oder am Ende des Absenkvorgangs durch ein gezieltes Aufstauchen einer Standardkette (15) sich im Zickzack anordnen und dass sich die im Zickzack liegenden Kettenglieder (15') abwechslungsweise an den beiden Seiten der Kanäle (17) reibschlüssig anlegen.

Publication: [EP 2333228 B1 20150812](#)

Applicant: Griesser Holding AG, Tänikonstrasse 3, 8355 Aadorf, CH

Inventor: Walther, René, Im Chelhof 13, 9597 Landschlacht, CH



Prio: CH 20091204 18742009
Appl.No: EP10405211
IPC: E06B 9/322 2006.01 (IA)

Motion sensor for home-automation device

Haustechnische Verschluss- oder Sonnenschutzvorrichtung (100, 100', 100''), die eine starre Struktur (110, 110', 110''), einen Aktuator, ein wickelbares Element (10), das gegenüber der starren Struktur unter der Wirkung des Aktuators (15) verlagerbar ist, und einen Bewegungssensor (1, 1', 1''), wobei der Sensor Bewegungsmessmittel (2) und Sendemittel (3) eines drahtlosen Signals an die haustechnische Vorrichtung umfasst, ein Gehäuse (5, 5a, 5b, 5c, 5d, 5f) und Befestigungsmittel des Sensors an einem Ausfallprofil (18), das an einem freien Ende des wickelbaren Elements positioniert ist, umfasst, dadurch gekennzeichnet, dass das Gehäuse des Bewegungsmelders ein Kontaktmittel (7a, 7b, 7c, 7d, 7f, 7h) umfasst, das bei einem Wickelmanöver des wickelbaren Elements in der Nähe einer vollständig gewickelten Position mit einer zur starren Struktur gehörenden Kontaktfläche in Kontakt tritt.

Publication: [EP 2354424 B1 20150812](#)

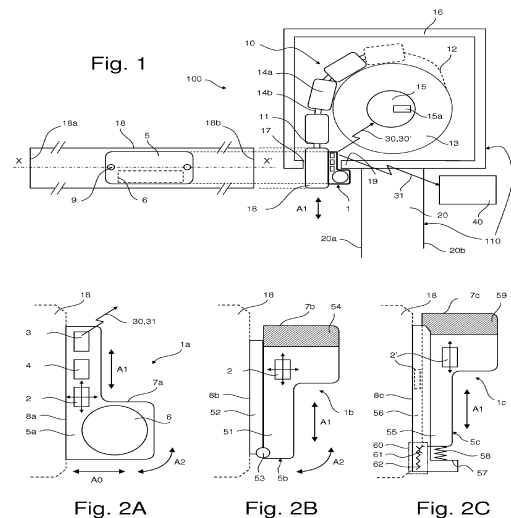
Applicant: Somfy SAS, 50, Avenue du Nouveau Monde, 74300 Cluses, FR

Inventor: Gérynière, Pierre, 305 Allée des Campanules, 74300, Cluses, FR

Prio: FR 20100204 1050788

Appl.No: EP11153406

IPC: E06B 9/17 2006.01 (IA)



Door seal with fixing element

Türdichtungssystem mit einer Türdichtung (1), welche ein Gehäuse (10) aufweist, und mit mindestens einem Befestigungselement (2), welches einen ersten Schenkel (20) zur Befestigung eines ersten Endbereichs des Gehäuses (10) an einem Türflügel (T) aufweist, wobei das Gehäuse (10) in diesem ersten Endbereich dem ersten Schenkel (20) vorsteht, wobei das Befestigungselement ein Befestigungswinkel (2) mit dem ersten Schenkel (20) und einem zweiten Schenkel (21) ist, wobei der zweite Schenkel (21) am Gehäuse (1) gehalten ist, dadurch gekennzeichnet, dass der zweite Schenkel (21) einen oberen und einen unteren Bügel (210, 211) aufweist, zwischen welchen eine Wand (101) des Gehäuses (10) gehalten ist.

Publication: [EP 2405095 B1 20150826](#)

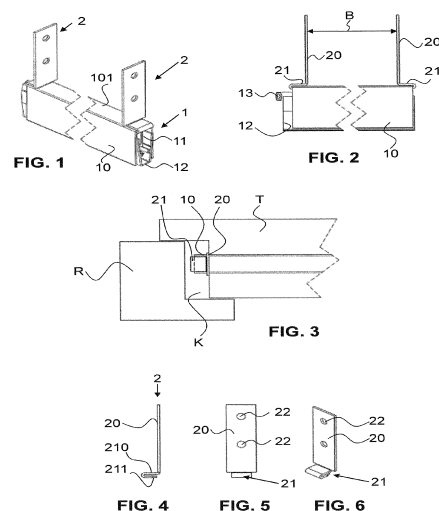
Applicant: Planet GDZ AG, Neustadtstrasse 2 8317 Tagelswangen, CH

Inventor: Dintheer, Andreas, Alpenstrasse 25, 8308 Illnau, CH

Prio: DE 20100709 202010010057 U

Appl.No: EP11172701

IPC: E06B 7/21 2006.01 (IA)



Panel element of a shading device

Element (5) einer Decke (2) einer Verdunkelungsvorrichtung (1), umfassend einerseits wenigstens eine Leiste (6), die mindestens ein Seitenende (60; 60') aufweist und mit wenigstens einem Hohlraum (62) versehen ist, der an einem solchen Seitenende (60; 60') ausmündet, und andererseits ein Endstück (7; 7'), das zumindest teilweise in den Hohlraum (62) der besagten Leiste (6) eingeführt ist, wobei die Leiste (6) einerseits mindestens ein Einhakmittel (63) umfasst, das aus mindestens einer Verformung der Leiste (6) besteht, dadurch gekennzeichnet, dass - die Leiste (6) andererseits zumindest eine Aussparung (65) umfasst, die sich aus mindestens einer Verformung dieser Leiste (6), die es erlaubt hat, mindestens ein Einhakmittel (63) zu bilden, ergibt; - das Endstück (7) einerseits mindestens ein ergänzendes Einhakmittel (72), das mit einem Einhakmittel (63), welches die Leiste (6) umfasst (6), zusammenwirkt, und andererseits mindestens ein Organ (74) zum Füllen einer solchen Aussparung (65) umfasst, welche die Leiste (6) umfasst.

Publication: [EP 2410118 B1 20150819](#)

Applicant: BUBENDORFF, 24, rue de Paris, 68220 Attenschwiller, FR

Inventor: Birker, Arnaud, 4A, Rue du Jura, F - 68440 DIETWILLER, FR; Bubendorf, Robert, 48, Rue Wilson, F - 68220 ATTENSCHWILLER, FR

Prio: FR 20100723 1056058

Appl.No: EP11305715

IPC: E06B 9/15 2006.01 (IA)

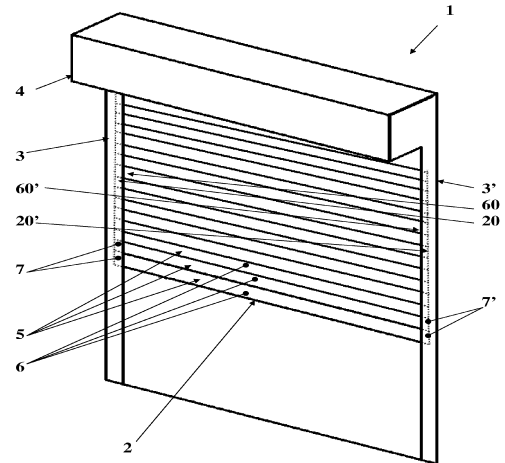


FIG. 1

Blind frame profile for door, window or facade structure

Blendrahmenprofil (1) für Tür-, Fenster- oder Fassadenkonstruktionen, mit einem inneren Profilverteil (4) und einem mit diesem über Verbindungsstege (5) verbundenen äußeren Profilverteil (6), dadurch gekennzeichnet, dass eine äußere Seitenfläche (25) mindestens einer Seitenwand (24) des inneren Profilverteils (4) L-förmig mit einem einzelnen Seitensteg (26) an der Außen- oder Innenseite des inneren Profilverteils (4) ausgebildet ist, dass an der Seitenfläche (25) mindestens eine Einsatzleiste (46) zur Halterung eines Beschlagteils (52) oder einer Glashalteleiste (59) lösbar befestigt ist und dass zwischen dem Seitensteg (26) an der Außenseite oder Innenseite des inneren Profilverteils (4) und der Einsatzleiste (46) eine Aufnahmenut (47) für die Aufnahme des Beschlagteils (52) oder der Glashalteleiste (59) begrenzt wird.

Publication: [EP 2428633 B1 20150812](#)

Applicant: Raico Bautechnik GmbH, Gewerbegebiet Nord 2, 87772 Pfaffenhausen, DE

Inventor: Weiler, Frank, Blütenring 79, 87665 Mauerstetten, DE

Prio: DE 20100908 202010012323 U

Appl.No: EP11178572

IPC: E06B 3/263 2006.01 (IA)

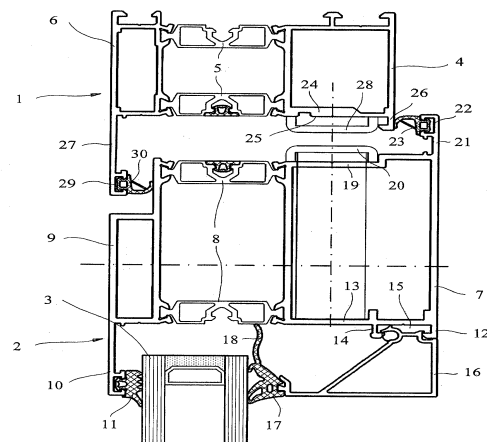


Fig. 1

Facade element

Fassadelement (1) für Bauwerke, umfassend: eine Innenscheibenanordnung (10) mit mindestens einer Glasscheibe (12) eine Außenscheibenanordnung (20) mit mindestens einer Glasscheibe (22, 24), und eine Rahmenanordnung (30), welche die Innenscheibenanordnung (10) und die Außenscheibenanordnung (20) unter Bildung eines Zwischenraumes (40) miteinander verbindet, wobei die Rahmenanordnung (30) mindestens eine Öffnung (32) aufweist, welche den Zwischenraum (40) mit der Atmosphäre verbindet, dadurch gekennzeichnet, dass die Außenscheibenanordnung (20) wärmetechnisch derart gedämmt ist, dass sie einen Wärmedurchlasswiderstand von mindestens $0,3 \text{ m}^2 \cdot \text{K}/\text{W}$ besitzt, und dass die mindestens eine Öffnung (32) als rohrartige Verbindung direkt an die Außenatmosphäre angeschlossen ist, wobei die mindestens eine Öffnung (32) auf einer Unterseite des Fassadelements (1) angeordnet ist und der Zwischenraum (40) ausschließlich über die mindestens eine Öffnung (32) mit der Umgebung in Verbindung steht, und wobei zumindest die Innenscheibenanordnung (10) den Zwischenraum (40) luft- und dampfdicht gegenüber der Innenseite abschließt.

Publication: [EP 2441910 B1 20150805](#)

Applicant: seele group GmbH & Co. KG, Einsteinring 1, 86368 Gersthofen, DE

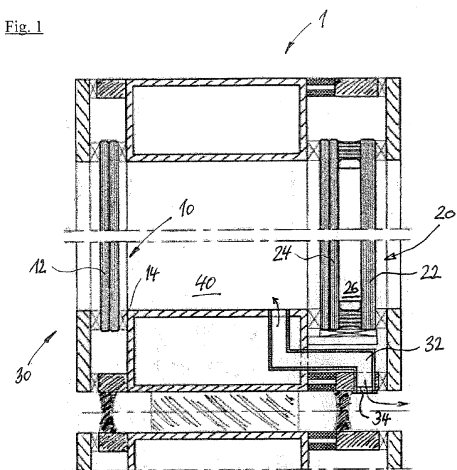
Inventor: Trommer, Erwin, Lindenweg 2, 86871 Rammingen, DE; Rohrer, Emil, Kochelseering 2, 86343 Königsbrunn, DE

Prio:

Appl.No: EP10187392

IPC: E06B 7/10 2006.01 (IA)

Fig. 1



Device for detecting the speed of the curtain of a fast roll-up door

Eine Vorrichtung (9) zur Detektion der Geschwindigkeit eines Vorhangs einer schnellen Rolltür, die in einer vertikalen Richtung gleiten kann, dadurch gekennzeichnet, dass sie mindestens eine Führung (5) umfasst, die an Ständern (2a, 2b) einer Rolltür (1) befestigt werden kann, wobei eine Vielzahl voneinander äquidistanter Zähne (6) mit einem Vorhang (4) einer Rolltür verbindbar sind, so dass sie transversal und lateral herausragen, wobei Mittel (10) ausgebildet sind, um während der Bewegung des Vorhangs die Zeitfolge der Zähne (6) zu erfassen und die Bewegung des Vorhangs (4) zu steuern, und wobei die Vielzahl von Zähnen (6) so geformt ist, dass sie im normalen Gebrauch frei und axial in der Führung (5) gleiten können und so, dass sie weiter vorübergehend und transversal aus der Führung (5) austreten können, wenn eine Kraft voreingestellte Werte überschreitet, im Wesentlichen aufgrund von zufälligen Erschütterungen des Vorhangs (4), mit dem die Zähne (6) im Gebrauch verbunden sind, auf den Vorhang (4) ausgeübt wird.

Publication: [EP 2441911 B1 20150819](#)

Applicant: Assa Abloy Entrance Systems AB, Box 131, 261 22 Landskrona, SE

Inventor: Lloret Madrid, Juan Jorge, Piazza Europa, 12, 35027 NOVENTA PADOVANA PD, IT; Sgrafetto, Roberto, Via Roma, 34, 21053 CASTELLANZA VA, IT; Vecchi, Armando, Via Nicolò Paganini, 18, 20052 MONZA MB, IT

Prio: IT 20101013 TV20100135

Appl.No: EP11184171

IPC: E06B 9/13 2006.01 (IA)

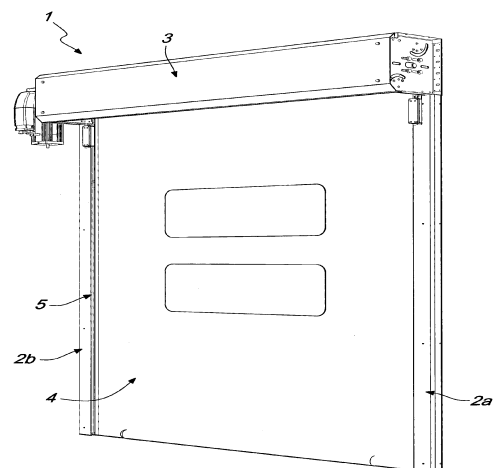


Fig. 1

IMPROVEMENTS IN AND RELATING TO A HINGE PROFILE FIXABLE IN A SUPPORTING PROFILE

Anordnung aus einem Trägerprofil (1) und einem in dem Trägerprofil (1) fixierbaren Scharnierprofil (2), die zur Verwendung für eine Platteneinheit, z.B. in der Form einer Tür, bestimmt ist, wobei das Trägerprofil (1) in erster Linie dazu bestimmt ist, an einer Wand oder dergleichen fixiert zu werden, wobei das Trägerprofil (1) die Form eines U aufweist, dessen Schenkel (3, 4) zu zwei Schenkeln (5, 6) mit einer inneren Reibungsfläche, die von dem Scharnierprofil-(2) vorspringen, gerichtet sind, sie umschließen und mit ihnen zusammenwirken, wobei das Trägerprofil (1) ferner ebenso paarweise bereitgestellte, in einem Winkel gebogene Fixierprofile (8, 9) aufweist, deren vordere Abschnitte (10) Schenkel (12, 13) mit Reibungsflächen (14) bilden, wobei die hinteren Abschnitte (11) der Fixierprofile (8, 9) mit Hilfe wenigstens einer Einstellschraube (15) zu einem geringen Abstand voneinander verschiebbar sind, während gleichzeitig die vorderen Abschnitte (10) in einer Querrichtung in Bezug zueinander in einen einstellbaren Eingriff mit der inneren Reibungsfläche (7) des Scharnierprofils (2) verschoben werden, wodurch das Scharnierprofil (2) in einer gewählten, vorherbestimmten Position in dem Trägerprofil (1) fixiert wird, wobei die innere Reibungsfläche (7) der Schenkel (5, 6) des Scharnierprofils (2) aus Zahnstrukturen (7') besteht, die sich in der Längsrichtung der Profile erstrecken, während die Schenkel (12, 13) der Fixierprofile (8, 9) an ihren äußeren Abschnitten Reibungsflächen (14) in der Form von Greifklauen (14') umfassen, wobei die Schenkel (12, 13) der Fixierprofile (8, 9) eine Länge aufweisen, die der Länge der Schenkel (5, 6) des Scharnierprofils (2) entspricht, während gleichzeitig an beiden Seiten der Schenkel (12, 13) der Fixierprofile (8, 9) vor dem Einsetzen der Schenkel (5, 6) des Scharnierprofils (2) in das Trägerprofil (1) eine Öffnung (16) mit einer Breite vorhanden ist, d... (+876)

Publication: [EP 2446101 B1 20150819](#)

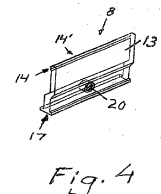
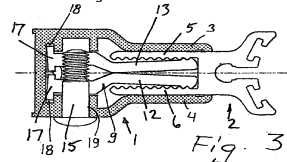
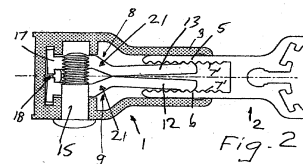
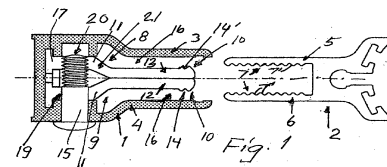
Applicant: GSAB Glasmästeribranshens Service AB, Box 1, 142 21 Skogås, SE

Inventor: FELLMAN, Bernt, Ölandsgatan 44, S-116 63 Stockholm, SE

Prio: SE 20090622 0900838

Appl.No: EP10792405

IPC: E05D 5/02 2006.01 (IA)



Drive for a darkening device

Antrieb für eine Verdunkelungsvorrichtung mit einem verstellbaren Verschlusselement (2) wie einem Rolladen o. dgl., das mittels des Antriebs (1) auf eine Wickelwelle (3) o. dgl. aufwickelbar ist, wobei ein Antriebsmotor (4), eine dem Antriebsmotor (4) zugeordnete Steuerung (5) und eine Wegmeßanordnung zur Ermittlung der Stellung des Verschlusselements (2) vorgesehen sind, wobei im Betriebsmodus der Steuerung (5) das Verschlusselement (2) normalbetriebsmäßig zwischen zwei steuerungstechnischen Endlagen "Öffnungs-Endlage" (6) und "Schließ-Endlage" (7) motorisch verstellbar ist, wobei im Installationsmodus der Steuerung (5) die steuerungstechnischen Endlagen (6, 7) insbesondere automatisch einlernbar sind, wobei die motorische Verstellung des Verschlusselements (2) mechanisch in Öffnungsrichtung durch einen Öffnungs-Endanschlag (8) und ggf. in Schließrichtung durch einen Schließ-Endanschlag (9) begrenzt ist und wobei Detektionsmittel zur Detektion einer Verstellung des Verschlusselements (2) in den Öffnungs-Endanschlag (8) und in den ggf. vorhandenen Schließ-Endanschlag (9) vorgesehen sind und wobei eine motorische Verstellung des Verschlusselements (2) in den Öffnungs-Endanschlag (8) mit einer zumindest geringfügigen Straffung des auf die Wickelwelle (3) aufgewickelten Verschlusselements (2) einhergeht, dadurch gekennzeichnet, dass im Installationsmodus der Steuerung (5) ein automatischer Einlernzyklus zuerst für die Schließ-Endlage (7) und dann für die Öffnungs-Endlage (6) vorgesehen ist, der durch die Detektion einer insbesondere benutzergeführten motorischen Verstellung des Verschlusselements (2) in den Öffnungs-Endanschlag (8) mit entsprechender Straffung des Verschlusselements (2) ausgelöst oder freigegeben wird und dass im Zuge des automatischen Einlernzyklus die Steuerung (5) das Verschlusselement (2) mittels des Antriebs (1) erst in Schließrichtung bis... (+321)

Publication: [EP 2450523 B1 20150812](#)

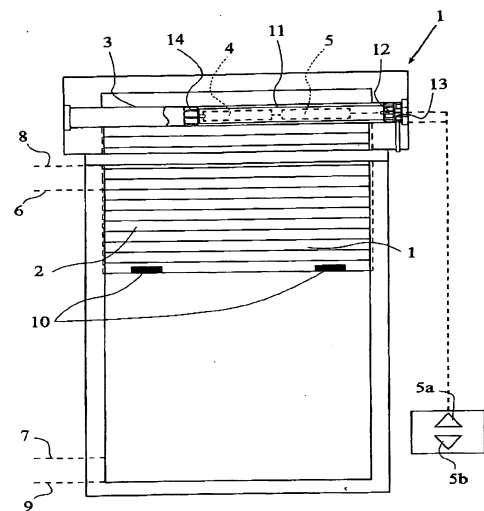
Applicant: ARCA Beteiligungen GmbH, Buschkamp 7, 46414 Rhede, DE

Inventor: Burdack, Frank, Ernst-von-Bergmann-Strasse 5, 46397 Bocholt, DE; Falkenberg, Matthias, Münsterstrasse 234, 46395 Bocholt, DE; Kern, Ralf, Holtwicker Strasse 62A, 46399 Bocholt, DE

Prio: DE 20101108 202010015105 U

Appl.No: EP11008581

IPC: E06B 9/88 2006.01 (IA)



Pane spacer

Abstandhalter für eine isolierte Glaseinheit, der wenigstens Folgendes umfasst: eine erste Seitenwand (1) und eine zweite Seitenwand (2) und eine erste Brücke (3) und eine zweite Brücke (4), wobei die erste und die zweite Seitenwand (1), (2) entgegengesetzt sind, und jede einen Eingreifabschnitt umfasst, der dazu ausgebildet ist, an gegenüberliegenden Flächen von Scheiben angebracht zu werden, wobei die erste Brücke (3) und die zweite Brücke (4) die erste Seitenwand (1) und die zweite Seitenwand (2) in der Querrichtung voneinander beabstanden, dadurch gekennzeichnet, dass die erste Seitenwand (1) und die zweite Seitenwand (2) und die erste Brücke (3) und die zweite Brücke (4) jeweils gesonderte Elemente sind, die aus Metall bestehen und durch Schweißen dauerhaft verbunden sind, um einen Abstandhalteraufbau zu bilden, und wobei wenigstens eines aus der erste Brücke (3) und der zweiten Brücke (4) gewellt ist, und wobei wenigstens eine der Brücken (3, 4) im Wesentlichen dünner als die Seitenwand (1, 2) ist, und/oder wenigstens eine der Brücken (3, 4) eine Dicke von 0,08 mm oder weniger und vorzugsweis 0,05 mm oder weniger aufweist.

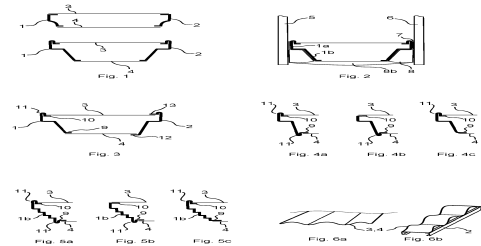
Publication: [EP 2463472 B1 20150826](#)

Applicant: VKR Holding A/S, Breettevej 18, 2970 Hørsholm, DK

Inventor: Sønderkær, Peter, Poststien 1, (Haldrup), 8700 Horsens, DK

Prio: EP 20101208 10194208

Appl.No: EP11173508



IPC: E06B 3/663 2006.01 (IA)

Light metal profile for façades, windows, doors or similar

Stranggepresstes oder gezogenes Aluminium-Hohlkammerprofil (1) insbesondere für Türen, bestehend aus einer Innenschale (3) und einer Außenschale (2), zwischen denen zur Unterbrechung des Wärmeflusses als Mittel zur statisch festen Verbindung zumindest eine Isolatorleiste (4) vorgesehen ist, dadurch gekennzeichnet, dass die Isolatorleiste (4) als Leichtmetallprofil mit innerer und äußerer Endleiste (5 und 6) und einer Kunststoffprofileiste als fester Verbinder und thermischer Isolator zwischen diesen beiden ausgebildet ist und dass zwischen beiden Endleisten (5, 6) der Isolatorleiste (4) Stabilisierungsstege (8) vorgesehen sind, die voneinander beabstandet die als Kunststoffflachprofil (7) ausgebildete Kunststoffprofileiste übergreifend als Haltepunkte im Brandfall für die Endleisten (5, 6) dienen und auch dann die Statik gewährleisten, wenn der Kunststoff infolge Überschreitung einer kritischen Temperaturgrenze seine Festigkeit verliert.

Publication: [EP 2487314 B1 20150819](#)

Applicant: heroal- Johann Henkenjohann GmbH & Co. KG, Österwieher Str. 80, 33415 Verl, DE

Inventor: Batzke, Daniel, heroal - Johann Henkenjohann GmbH & Co. KG Klosterkamp 10, 32657 Lemgo, DE; Drücker, Joachim, heroal - Johann Henkenjohann GmbH & Co. KG Verler Str. 303A, 33334 Gütersloh/Spexard, DE; Heidenfelder, Michael, heroal - Johann Henkenjohann GmbH & Co. KG Im Feld 16, 33397 Rietberg, DE

Prio: DE 20100924 202010008621 U

Appl.No: EP11190526

IPC: E06B 3/263 2006.01 (IA)

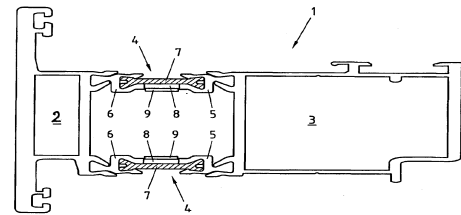


Fig.1

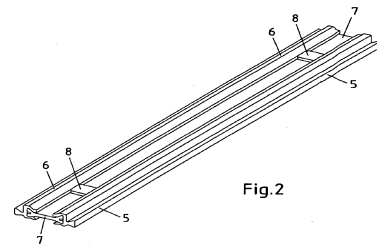


Fig.2

Drive device for adjusting sunscreens

Antriebsvorrichtung zum Verstellen von Sonnenschutzanlagen mit einer manuell zu betätigenden Kette (122), die in einer Endlosschleife in Eingriff mit einem Antriebszahnrad (116) steht, dadurch gekennzeichnet, dass die Kette (122) über wenigstens ein Führungselement (142) geführt ist, das als Kegelrad ausgebildet ist, wobei seitlich neben dem wenigsten einen Führungselement (142) ein Ausweichelement (124) vorgesehen ist, das bei Überschreiten einer bestimmten seitlichen, durch die Kette ausgeübten Kraft ausweicht und eine Freigabe der Kette (122) von der Antriebsvorrichtung bewirkt.

Publication: [EP 2530234 B1 20150819](#)

Applicant: WAREMA Kunststofftechnik und Maschinenbau GmbH, Dillberg 33, 97828 Markttheidenfeld, DE

Inventor: Oppel, Sebastian, Oberer Graben 32, 97291 Thüngersheim, DE; Müller, Joachim, Kolpingstrasse 13, 97828 Markttheidenfeld, DE; Kunkel, Christian, Im Wengert 3, 97840 Windheim, DE

Prio:

Appl.No: EP11004394

IPC: E06B 9/322 2006.01 (IA)

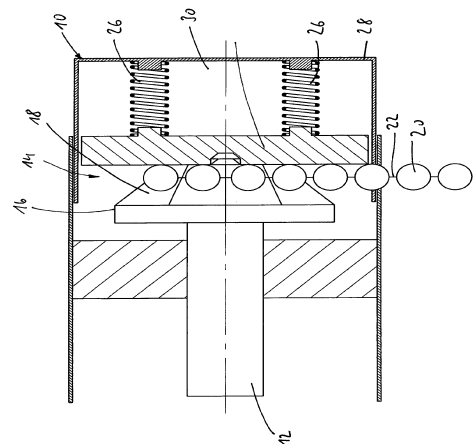


Fig. 1

FLEXIBLE INSULATED DOOR PANELS WITH INTERNAL Baffles

Flexible Türplatte, die zwischen einer offenen Position und einer geschlossenen Position bezüglich einer Türöffnung (14) beweglich ist, wobei die Türplatte umfasst: ein erstes Blatt (28), ein zweites Blatt (30), das allgemein parallel zu dem ersten Blatt (28) ist, wenn die Türplatte in der geschlossenen Position ist, und mehrere Trennwände (26, 126, 226, 326, 426), die sich zwischen dem ersten Blatt (28) und dem zweiten Blatt (30) so erstrecken, dass sie mehrere Luftkammern (34) in der flexiblen Türplatte definieren, dadurch gekennzeichnet, dass die eine oder mehr der mehreren Trennwände (26, 126, 226, 326, 426) einen zentralen Teil (56, 70, 74, 80) umfasst, der in einem Winkel (58, 158, 258, 358) bezüglich des ersten Blatts (28) und des zweiten Blatts (30) liegt, wobei der Winkel (58, 158, 258, 358) ein anderer als ein 90°-Winkel ist, wenn die flexible Türplatte in der geschlossenen Position ist.

Publication: [EP 2598708 B1 20150819](#)

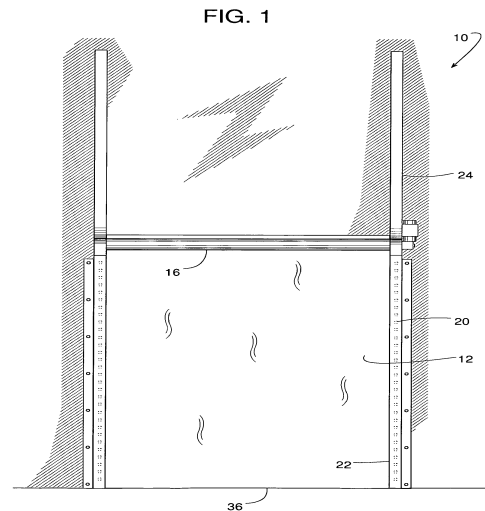
Applicant: Rite-Hite Holding Corporation, 8900 N. Arbon Drive, Milwaukee, Wisconsin 53223, US

Inventor: UNGS, Mark, 12275 Circle Ridge Road, Dubuque IA 52001, US; MANICH, Glenn, R., 4002 W. Gazebo Hill Parkway, Mequon WI 53092, US

Prio: US 20100726 843538

Appl.No: EP11731231

IPC: E06B 9/13 2006.01 (IA)



CORNER CONNECTION DEVICE

Eckverbindungsrichtung, vorzugsweise zur Herstellung von Fenster- oder Türrahmen aus in Gehrung geschnittenen Hohlprofilelementen (10) mit einem eine Arbeitsebene (ε) bildenden Auflagetisch (1), mit Positionierungs- und Befestigungselementen für die Profilelemente (10) sowie mit zumindest einem Stanzkopf (5), welcher zur Verpressung der Profilelemente (10) mit einem Eckwinkel (11) ein Stanzmesser (6) aufweist, dadurch gekennzeichnet, dass alle außerhalb der verpressten Rahmenecke liegenden Positionierungselemente (2, 7), Befestigungselemente (4) oder Stanzköpfe (5) nach dem Verpressen der Hohlprofilelemente (10) unter die Arbeitsebene (ε) des Auflagetisches (1) absenkbar sind.

Publication: [EP 2637809 B1 20150819](#)

Applicant: Haas, Josef, Tolleterau 170, 4710 St. Georgen/Grieskirchen, AT

Inventor: Haas, Josef, Tolleterau 170, 4710 St. Georgen/Grieskirchen, AT

Prio: AT 20101109 18372010

Appl.No: EP11776183

IPC: B21D 53/74 2006.01 (IA)

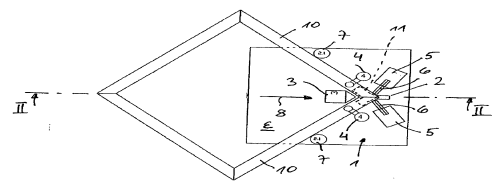


Fig. 1

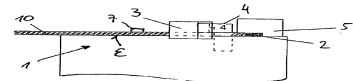


Fig. 2

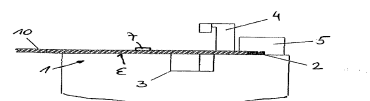


Fig. 3

Tunnel casing for a rolling shutter

Tunnelförmiger Rollladenkasten mit einem umgekehrten U-förmigen Querschnitt, und vorgesehen, um in die Wand (2) eines Gebäudes, oberhalb einer Öffnung (3) integriert zu werden, zum Aufnehmen einer Schreinerei (4) der Art Tür oder Fenster, wobei dieser Kasten (1) mindestens eine Vorderwand (5), eine Rückwand (7) und eine obere Wand (9), sowie an der Außenseite (12) des Tunnelkastens (1), im Bereich seiner Vorderwand (5) und/oder Rückwand (7), in der Dicke (14) dieser letzteren, zumindest eine Aussparung (15), die sich im wesentlichen vertikal erstreckt, umfasst, dadurch gekennzeichnet, dass er auch mindestens eine Verstärkung zur Befestigung (16) der Schreinerei (4) an dem Mauerwerk umfasst, wobei diese Befestigungsverstärkung (16) in der Aussparung (15), welche der tunnelförmige Kasten (1) umfasst, aufgenommen wird.

Publication: [EP 2653645 B1 20150819](#)

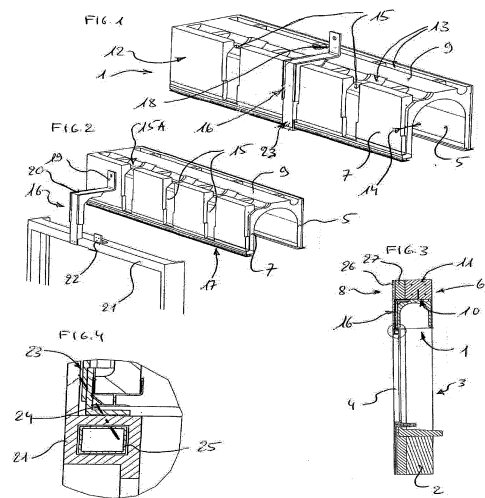
Applicant: BUBENDORFF, 24, rue de Paris, 68220 Attenschwiller, FR

Inventor: Pasquier, Patrick, 12, Chemin de Verdon, F-74300 Cluses, FR; Larochette, Fabien, 2, Impasse des Pommiers, 69220 Belleville en Beaujolais, FR

Prio: FR 20120419 1253624

Appl.No: EP13163487

IPC: E06B 9/17 2006.01 (IA)



DOOR SYSTEM FOR AN ESCAPE ROUTE

Türsystem für einen Fluchtweg, aufweisend einen Satz Türleibungen, die einen sich vertikal erstreckenden, rechteckigen Rahmen ausbilden, und eine Tür, die in dem Rahmen montiert ist, wobei die Tür zwischen einer Schließposition, in welcher die Passage durch den Rahmen hindurch blockiert ist, und einer Offenposition bewegbar ist, in welcher die Passage durch den Rahmen hindurch offen ist, wobei die Tür sich in vertikaler Richtung in dem Rahmen zwischen der Schließposition und der Offenposition bewegen kann, dadurch gekennzeichnet, dass das Türsystem ferner aufweist ein Türverriegelungssystem, mittels dessen die Tür in der Schließposition davon verriegelt werden kann, wobei das Türsystem derart gestaltet ist, dass die Tür auf ein Entriegelt-Werden durch das Türverriegelungssystem von der Schließposition aus zu der Offenposition hin bewegt wird durch Gravitationskraft.

Publication: [EP 2663723 B1 20150819](#)

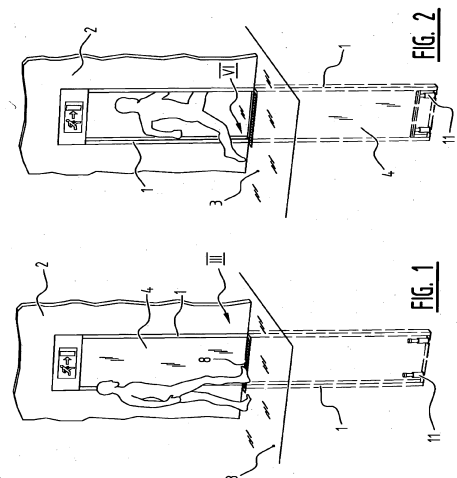
Applicant: Vluchtdeur B.V., Oosterzijweg 27, 1906 AX Limmen, NL

Inventor: Kaandorp, Eduardus Joannes, Oosterzijweg 27, 1906 AX Limmen, NL

Prio: NL 20110112 2005993

Appl.No: EP12703606

IPC: E06B 3/50 2006.01 (IA)



INSECT-PROTECTION DEVICE, ESPECIALLY FOR DOOR DEVICES, ESPECIALLY FOR THE DOOR OPENING OF A CAMPING-CAR AND/OR FOR A DOOR OPENING, A WINDOW OPENING OR A RUF COVER OPENING

Insektenschutzvorrichtung (19), insbesondere Türvorrichtung (20), bzw. für die Türöffnung eines Wohnwagens und/oder eines Wohnmobils und/oder für eine Türöffnung, eine Fensteröffnung oder eine Dachhaubenöffnung mit einem Rahmen (21) und mit einer Zugleiste (22), wobei ein Behangstoff (23) mittels der Zugleiste (22) derart bewegbar ist, dass eine von dem Rahmen (21) begrenzte Öffnung (25) mit dem Behangstoff (23) verschließbar und/oder offenbar ist, wobei der Rahmen (21) ein unteres Rahmenprofil (26) aufweist und die Zugleiste (22) mit einem Gleiter (30) an dem unteren Rahmenprofil (26) verschiebbar angeordnet ist, dadurch gekennzeichnet, dass der Gleiter (30) und/oder das untere Rahmenprofil (26) derart ausgebildet sind und/oder derart funktionell miteinander zusammenwirken, so dass die Umlenkung einer Schnur (32) mit Hilfe des Gleiters (30) derart ermöglicht ist, so dass ein umgelenkter Bereich (34) der Schnur (32) in einem geschützten Bereich, insbesondere in einem Schnurraum (35), insbesondere leicht außermittig eines Fußbereiches (50) des unteren Rahmenprofils (26), verläuft, wobei das untere Rahmenprofil (26) einen vorkragenden Führungsbereich (36) aufweist und wobei der Schnurraum (35) durch den Führungsbereich (36) überdeckt ist.

Publication: [EP 2675965 B1 20150819](#)

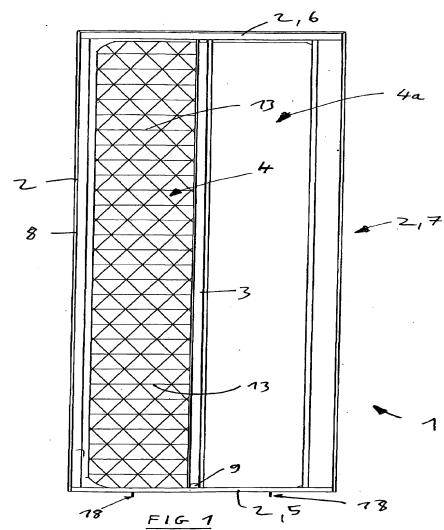
Applicant: Hans Holzhauser GmbH & Co. KG, Fritz-Lürmann-Strasse 21, 58638 Iserlohn, DE

Inventor: KEUCHER, Karl-Heins, Dreimorgen 21, 58708 Menden, DE

Prio: DE 20110214 102011011201

Appl.No: EP12705055

IPC: E04D 13/03 2006.01 (IA)



MULTI CHAMBER GAS FILLED CONSTRUCTION PANEL

Gasgefüllte Mehrkammer-Bauplatte, umfassend mindestens im Wesentlichen ebene parallele Platten wie Außenplatten (2) und Innenplatten (1), Abstandhalter zwischen den Kammern (8) mindestens eine mit Dämmgas gefüllte Kammer (3), wobei die gasgefüllte Mehrkammer-Bauplatte weiter mindestens eine mit Luft gefüllte Kammer (5) umfasst, die mit Luft gefüllte Kammer (5) auf mindestens einer Seite durch eine gasundurchlässige Trennvorrichtung (7) abgetrennt wird und ferner die mit Luft gefüllte Kammer (5) mindestens eine Öffnung (6) aufweist, dadurch gekennzeichnet, dass mindestens zwei angrenzende mit Dämmgas gefüllte Kammern (3) vorhanden sind, die durch eine Trennvorrichtung oder eine Vielzahl an diesen (4) abgetrennt sind und wobei die Öffnung oder Öffnungen (6) den Druckausgleich ermöglichen, um das innere volumetrische Ausdehnen und Zusammenziehen des Dämmgases zu ermöglichen.

Publication: [EP 2729635 B1 20150805](#)

Applicant: CBS Institut Celovite Gradbene Resitve, d.o.o., Prijateljeva cesta 12, 8210 Trebnje, SI; Reflex, Gornja, Radgona, d.o.o., Podgrad 4, 9250 Gornja Radgona, SI

Inventor: KRALJ, Ales, Okiskega 25, 1000 Ljubljana, SI; HAJDINJAK, Rudy, Cresnjevcu 69, 9250 Gornja Radgona, SI

Prio: SI 20110704 201100244 P

Appl.No: EP12714093

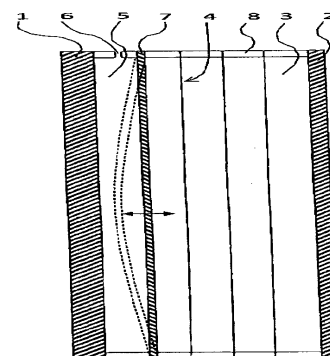


FIG. 1

IPC: E04B 1/80 2006.01 (IA)

LASER MACHINE TOOL COMPRISING A PROTECTING DOOR AND A CONTROL DEVICE

Laserbearbeitungsmaschine mit einer Schutztüre (3), die in einer Öffnungs- und Schließrichtung hin- und her bewegbar ist, wobei die Schutztüre (3) folgende Merkmale aufweist: ein Türblatt (4), das mit einem Antrieb (13) zum Öffnen und Schließen der Schutztüre (3) verbunden ist, gekennzeichnet ein Schutzelement (8), das auf einer Seite der Schutztüre (3) in der Schließrichtung angebracht ist und relativ zu dem Türblatt (4) in der Öffnungs- und Schließrichtung um einen vorbestimmten Weg beweglich ist, und ein mit dem Schutzelement (8) verbundenes Schaltelement (10), das so ausgebildet ist, dass es in der Schließrichtung beim Auftreffen auf ein Hindernis schaltet, wobei die Laserbearbeitungsmaschine (1) eine Steuerungseinrichtung (12) aufweist, die ein Signal des Schaltelements (10) verarbeitet, wobei die Steuerungseinrichtung (12) und der Antrieb (13) so angepasst sind, dass ein Abbremsweg der Schutztüre (3) immer kleiner ist als der vorbestimmte Weg, um den das Schutzelement (8) zu dem Türblatt (4) beweglich ist, und wobei das Schaltelement (10) ein elastischer Bandschalter ist.

Publication: **EP 2741888 B1 20150826**

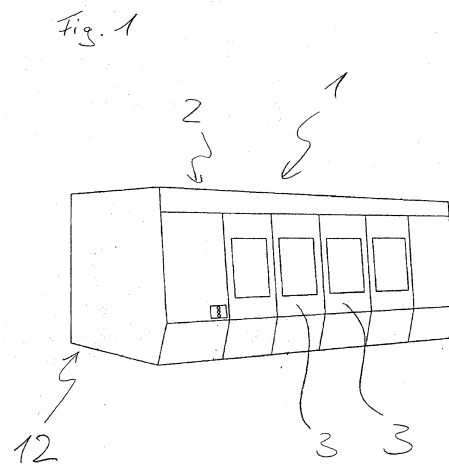
Applicant: TRUMPF Laser GmbH, Aichhalder Strasse 39, 78713 Schramberg, DE

Inventor: DÖTTLING, Jürgen, Im Kronengarten 29, 78713 Schramberg, DE; GANTER, Robert, Teuremertalweg 10, 70839 Gerlingen, DE; BANHOLZER, Rainer, Merowingerstr. 5, 78662 Böisingen, DE

Prio: DE 20110916 102011082883

Appl.No: EP12758503

IPC: B23K 26/38 2014.01 (IA)



Device for finishing a box

Vorrichtung zur Endbearbeitung (1) eines Kastens (C), welches ein Schließ-, Klimaanlage- oder anderes System umfasst, das ein Gebäude ausrüstet, wobei diese Vorrichtung (1) die Form eines Profils (2) annimmt, dadurch gekennzeichnet, dass sie Folgendes umfasst: - eine Basis (3), die dazu bestimmt ist, an dem Kasten (C) befestigt zu werden; - mindestens ein lösbares flaches Element (4 ; 4' ; 4''), das sich seitlich relativ zu der besagten Basis (3) und ab dieser Basis (3) erstreckt; - wenigstens ein Mittel (5 ; 5' ; 5''), das sich seitlich relativ zu der besagten Basis (3) und ab dieser Basis (3) erstreckt und dazu bestimmt ist, ein solches flaches Element (4 ; 4' ; 4'') aufzunehmen, nachdem dieses von der Basis getrennt wurde (3).

Publication: **EP 2743441 B1 20150819**

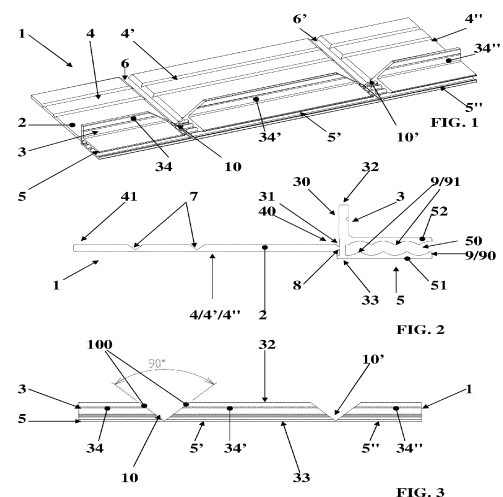
Applicant: BUBENDORFF, 24, rue de Paris, 68220 Attenschwiller, FR

Inventor: Drouet, Sébastien, 35, Rue des Ecureuils, 68220 Buschwiller, FR

Prio: FR 20121213 1261984

Appl.No: EP13197002

IPC: E06B 9/17 2006.01 (IA)



Supporting plate of a winding tube of a roller shutter

Trägerplatte (1) eines Wickelrohrs (2) eines Rollladens, dazu bestimmt, einerseits, einen Elektromotor (3) aufzunehmen, der geeignet konfiguriert ist, das Aufwind und Abwickeln des besagten Rollladens zu betätigen, und, andererseits, einen elektrischen Steckverbinder (5), der aus einem Stecker (9) und einer Steckdose (10) besteht, die sich ineinander einfügen, und von denen der eine an einem Ende eines elektrischen Anschlußkabels montiert ist und die andere den besagten Motor (3) ausstattet, wobei die besagte Trägerplatte (1) ein bistabiles elastisches Verriegelungsmittel (7) umfasst, das konfiguriert ist, um den besagten Stecker (9) in einer Verriegelungsposition (72) in der Steckdose (10) oder die Steckdose (10) in einer Verbindungsposition (52) auf dem Stecker (9) zu halten, indem eine Druckkraft gegen den besagten elektrischen Steckverbinder (5) ausgeübt wird, dadurch gekennzeichnet, daß das besagte bistabile elastische Verriegelungsmittel (7) aus einem Federstahlband besteht, das zwischen zwei durch Kerben gebildeten Abstützen (8, 81) positioniert gehalten wird, deren Abstand zu einander geringfügig kleiner als die Länge des besagten Bandes ist, wobei das bistabile elastische Verriegelungsmittel (7) im Bereich eines Randes des elektrischen Steckverbinders (5), der sich gegenüber einem Element aus elektrisch leitendem Material des Steckverbinders (5) befindet, eine Druckkraft verleiht, wobei die besagte Druckkraft, einerseits, orthogonal oder im wesentlichen orthogonal zu der Drehachse des Wickelrohrs (2) im montierten Zustand und, andererseits, in der Richtung der Ineinanderrückführung des besagten Steckverbinders (5) mit der besagten Trägerplatte (1) ist.

Publication: [EP 2746521 B1 20150819](#)

Applicant: BUBENDORFF, 24, rue de Paris, 68220 Attenschwiller, FR

Inventor: Bubendorf, Robert, 48, Rue Wilson, F-68220 Attenschwiller, FR

Prio: FR 20121218 1262215

Appl.No: EP13197880

IPC: E06B 9/174 2006.01 (IA)

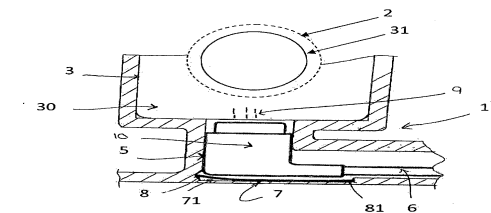


FIG. 1

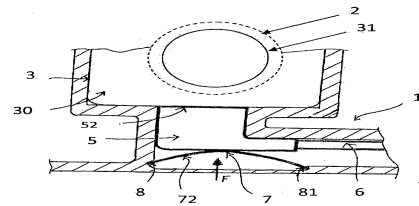


FIG. 2

INSULATING GLAZING WITH THERMAL PROTECTION INSULATING PANEL

Schallgedämpfte Isolierverglasung mindestens umfassend: a. eine erste Scheibe (1) und eine zweite Scheibe (2) b. einen umlaufenden Abstandshalter (3) zwischen der ersten Scheibe (1) und der zweiten Scheibe (2), c. eine außen umlaufende Dichtung (5) in einer Lücke (5') zwischen der ersten Scheibe (1), dem Abstandshalter (3) und der zweiten Scheibe (2), d. ein Vakuumisolierpaneel (6) zwischen der ersten Scheibe (1) und der zweiten Scheibe (2) und dem Abstandshalter (3), dadurch gekennzeichnet daß: e. mindestens eine akustische Isolierplatte (7) auf mindestens einer Oberfläche des Vakuumisolierpaneels (6) angeordnet ist.

Publication: [EP 2748383 B1 20150819](#)

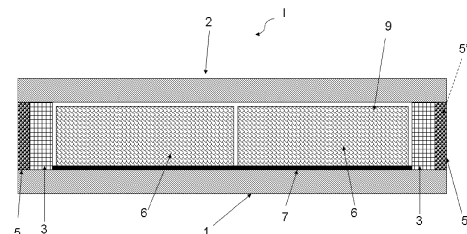
Applicant: Saint-Gobain Glass France, 18 avenue d'Alsace, 92400 Courbevoie, FR

Inventor: SCHREIBER, Walter, Lortzing Str. 5, 52074 Aachen, DE; FRANK, Katrin, Augutastr. 68, 52070 Aachen, DE

Prio: EP 20110826 11178971

Appl.No: EP12735580

IPC: E04B 1/80 2006.01 (IA)



FIGUR 1

Roof window set with an air outlet

Dachfensteranordnung mit Lüfter, bestehend aus: - einem Dachfenster, das eine Fensterzarge (1) sowie eventuell mit einem in ihr montierten Fensterflügel (2) besitzt, und - einem Lüfter (3), wobei die Fensterzarge (1) aus einem oberen (11), unteren (12) Rahmenholz und seitlichen (13) Rahmenhölzern gebaut ist, die Bestandteile der Fensterzarge (1) sind, wobei die Fensterzarge in der Fensteröffnung montiert wird, dadurch gekennzeichnet, dass der Lüfter (3) ein gesondertes Modul ist, das in der Fensteröffnung an der Außenfläche (14) eines der Elemente (11, 12 oder 13) der Fensterzarge (1) eingesetzt wird, und dass die Länge des Lüfters (3) der Länge eines Elements (11, 12 oder 13) der Fensterzarge (1) gleich ist.

Publication: [EP 2762653 B1 20150812](#)

Applicant: FAKRO PP Sp. z o.o., ul Wegierska 144a, 33-300 Nowy Sacz, PL

Inventor: Florek, Ryszard, Fakro PP Sp. z o. o. Losie 11, 33-336 Labowa, PL

Prio: PL 20130204 40264513

Appl.No: EP14153583

IPC: E04D 13/03 2006.01 (IA)

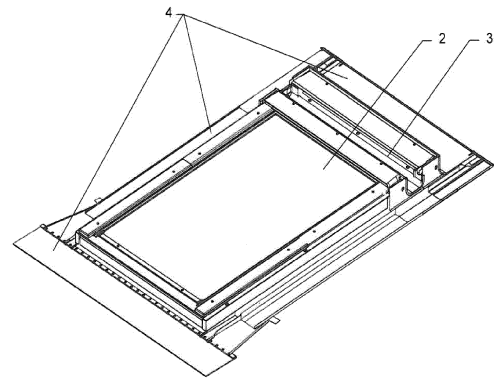


Fig. 1

Guiding device, fabric of a solar protection device, and assembly provided with such a guiding device

Führungsvorrichtung (1), die dazu bestimmt ist, fest mit einem Rand (2) eines textilen Flächengebildes (3) verbunden zu sein, dessen Fäden mit einem ersten thermoplastischen Material beschichtet sind, wobei es die Führungsvorrichtung (1) ermöglicht, einen Absetzstreifen zu bilden, und umfasst: - ein textiles Band (4, 14); - eigenständige Führungselemente (5), die im Bereich eines ersten Rands (6) des textilen Bands (4, 14) angebracht sind; - einen Bereich (7, 17, 27, 37) zur festen Verbindung mit dem textilen Flächengewebe (3); wobei die Führungsvorrichtung (1) dadurch gekennzeichnet ist, dass der Verbindungsbereich (7, 17, 27, 37) aus einem durchbrochenen Gewebe (9, 19, 29, 39, 49, 59, 69) gebildet ist, das ein zweites thermoplastisches Beschichtungsmaterial umfasst, wobei das zweite thermoplastische Material mit dem ersten, die Fäden des textilen Flächengebildes (3) bedeckenden thermoplastischen Material warmverschweißbar ist, und dass das durchbrochene Gewebe durchbrochene Bereiche (43, 53) umfasst, die das Fließen des ersten thermoplastischen Materials des textilen Flächengebildes (3) ermöglichen.

Publication: [EP 2799657 B1 20150812](#)

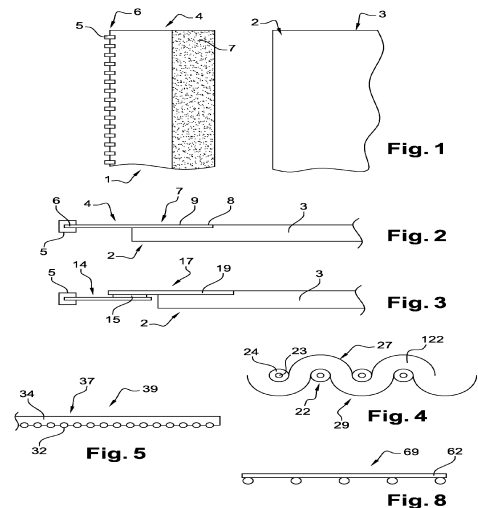
Applicant: Serge Ferrari SAS, Zone Industrielle de la Tour du Pin, 38110 Saint Jean de Soudain, FR

Inventor: Saiz, Carlos, 170 Chemin du Burdet, 73190 Challes les eaux, FR

Prio: FR 20130404 1353053

Appl.No: EP14163475

IPC: E06B 9/42 2006.01 (IA)



System for assembly of curtain wall type facade opening

Publication: [EP 2189616 B1 20150805](#)

Applicant: Sapa AS, Biskop Gunnerusgate 14, 0185 Oslo, NO

Inventor: Lahbib, Patrick, 45 chemin de Mange Pomme, 31520 Ramonville Saint Agne, FR; Couillens, Didier, 17 rue du 8 mai, 32000 Auch, FR

Prio: FR 20081120 0857873

Appl.No: EP9176492

IPC: E06B 9/54 2006.01 (IA)

Vorrichtung zur Abdichtung von Tür- oder Fensterelementen

Abschlusselement (10) für ein Wetterschenkelprofil (11) mit wenigstens einem Aufnahmebereich (14), der dazu vorgesehen ist, an einem Ende eines Wetterschenkelprofils (11) angebracht zu werden, wobei der Aufnahmebereich (14) so ausgebildet ist, dass zwischen dem Aufnahmebereich und dem Profil eine form- und/oder kraftschlüssige Verbindung herstellbar ist, wherein wenigstens einen zweiten Verbindungsbereich (12.2), welcher sich im Wesentlichen senkrecht zur Richtung (y) der Anbringung des Abschlusselements (10) am Wetterschenkelprofil (11) erstreckt, wobei wenigstens ein an dem zweiten Verbindungsbereich (12.2) anliegendes zweites Dichtungselement (13.2) mit einer vorgegebenen zweiten Querschnittsdimension (l₂) vorgesehen ist, welches durch Befestigungsmittel (15) so gehalten wird, dass sich die zweite Querschnittsdimension des zweiten Dichtungselements (13.2) im Wesentlichen senkrecht bezüglich der Richtung (y) der Anbringung des Abschlusselements am Wetterschenkelprofil (11) nach unten erstreckt.

Publication: [DE 102013022366 A1 20150827](#)

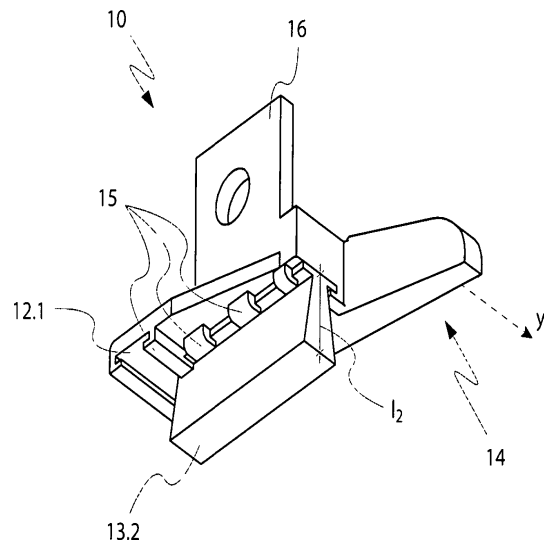
Applicant: GEALAN Fenster-Systeme GmbH, 95145, Oberkotzau, DE

Inventor: Michael, Harald, 95030, Hof, DE

Prio:

Appl.No:

IPC: E06B 7/26 2006.01 (IA)



Energieeffiziente Einbauanordnung mit einem Kastelement

Energieeffiziente Einbauanordnung mit einem Kastelement für fenster- oder türbezogene Behangeinrichtungen, wie Rollladenpanzer oder dergleichen insbesondere für Wandaufbauten in Verbindung mit Tür- oder Fensterrahmen, die sich dadurch auszeichnet, dass ein Rahmen-Vordämmelement im Wesentlichen bündig mit einer Kastelement-Unterseite innerhalb des Kastelementes in Verbindung mit einem Rahmen-Aufdämmelement vorgesehen ist, dessen Abmessungen in Abhängigkeit von einer Rahmenbreite eines Fenster- oder Türrahmens oder in Abhängigkeit von übrigen Einbaugegebenheiten, wie Wanddicken eines Wandaufbaus oder dergleichen variabel ist. Ein schwimmend gelagertes Kopplungselement zwischen innerem Kasten-Versteifungselement und Verschlussplatte der Revisionsöffnung verbindet einfache Zugänglichkeit des Innenrahmens des Rollladenkastens, mit Erhöhung der Gesamtsteifigkeit desselben und vorteilhafter Montage. Die Einbauanordnung gewährleistet durch minimierte Außenabmessungen den vorteilhaften Einbau in wärmedämmte Fassaden, insbesondere in Verbindung mit verhältnismäßig dünnwandigen Bau(Wand-)elementen und eine vorteilhafte, wärmetechnisch günstige außenliegende Positionierung von Fenster- oder Türelementen

Publication: [DE 102014001636 A1 20150813](#)

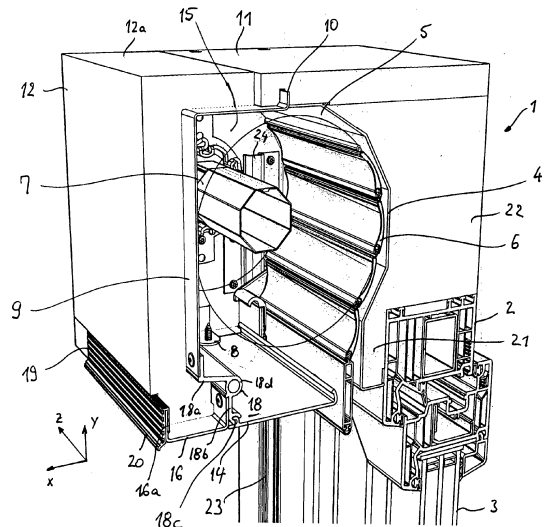
Applicant: D & M Rolladentechnik GmbH, 56204, Hillscheid, DE

Inventor: Menningen, Markus, Dr., 56204, Hillscheid, DE; Krause, Dieter, 56204, Hillscheid, DE

Prio:

Appl.No:

IPC: E06B 9/17 2006.01 (IA)



Gebäudeöffnungsverschattungsvorrichtung und Führungsschiene dafür

Die Erfindung betrifft eine Führungsschiene (1; 2; 1a; 2a; 1b; 2b; 1c; 2c; 1d; 2d) für eine einen beiderseits geführten, auf- und ablassbaren Behang aufweisende Gebäudeöffnungsverschattungsvorrichtung, welche eine Führungsnut (23) für den Behang aufweist. Die Erfindung zeichnet sich dadurch aus, dass die Führungsschiene (1; 2; 1a; 2a; 1b; 2b; 1c; 2c; 1d; 2d) eine Befestigungseinrichtung (22; 22a; 22b; 22c) zur Befestigung eines bespannten, die Gebäudeöffnung abdeckenden Tuchrahmens (3) an der Führungsschiene (1; 2; 1a; 2a; 1b; 2b; 1c; 2c; 1d; 2d) aufweist. Die Erfindung betrifft ferner eine Gebäudeöffnungsverschattungsvorrichtung mit einem auf- und ablassbaren Behang und zwei solchen Führungsschienen (1, 2; 1a; 2a; 1b; 2b; 1c; 2c; 1d; 2d), an denen der bespannte Tuchrahmen (3) befestigt ist.

Publication: [DE 102014001887 A1 20150820](#)

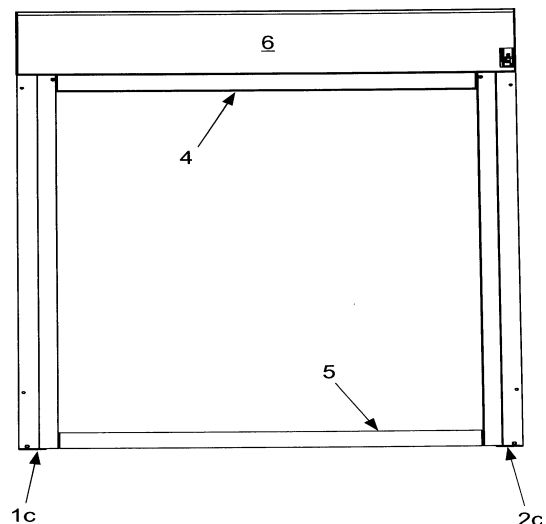
Applicant: ROMA KG, 89331, Burgau, DE

Inventor: Neukirchner, Daniel, 86502, Laugna, DE; Schmöger, Florian, 86356, Neusäß, DE

Prio:

Appl.No:

IPC: E06B 9/58 2006.01 (IA)



Verschattungseinrichtung für Luft-, Wasser- und Landfahrzeuge

Beschrieben und dargestellt ist eine Verschattungseinrichtung für Luft-, Wasser- und Landfahrzeuge mit einer zwischen einer Geschlossenstellung und einer Offenstellung verfahrbaren Rollobahn, deren erste Kante an einer Wickelwelle angeordnet ist und deren gegenüberliegende Kante ein Auszugsprofil trägt, und mit einem motorischen Antrieb, der auf einen Betätigungsstab wirkt, welcher mit dem Auszugsprofil gekoppelt ist, wobei der Betätigungsstab zum Erreichen der Geschlossenstellung der Rollobahn in Schließrichtung und bei Bewegung in Offenstellung in Gegenrichtung bewegt wird, wobei zwischen dem motorischen Antrieb und dem Betätigungsstab ein Antriebsmittel angeordnet ist, dessen vom Antrieb induzierte Zugbewegung in einer Schubbewegung des Betätigungsstabes resultiert und dessen Schubbewegung eine Zugbewegung des Betätigungsstabes induzieren kann.

Publication: [DE 102014001991 A1 20150820](#)

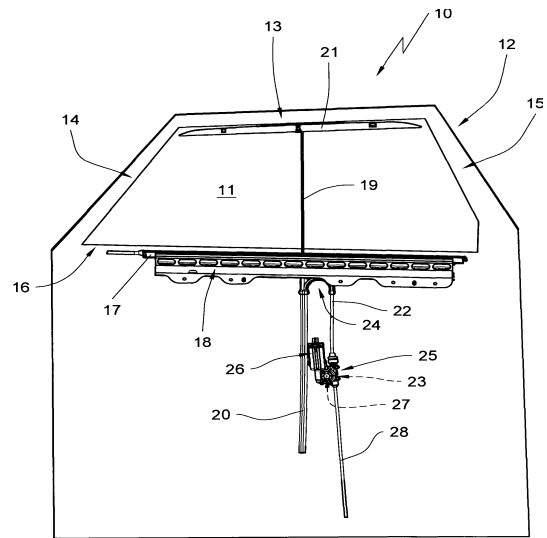
Applicant: Macauto Industrial Co., Ltd., Tainan, TW

Inventor: Seel, Holger, 42113, Wuppertal, DE;
Weissmann, Roger, 45357, Essen, DE

Prio:

Appl.No:

IPC: E06B 9/70 2006.01 (IA)



Horizontal-Schiebefenster

Vorgeschlagen wird ein Horizontal-Schiebefenster aus rahmenlosen Einfachglasscheiben mit einer Höhe von maximal 100 cm und einer Breite von maximal 60 cm, die oben und unten in U-Profil-Führungsschienen aus Metall (Stahl, Aluminium) horizontal verschiebbar sind, wobei in waagerechter Richtung mindestens zwei Scheiben nebeneinander und in senkrechter Richtung eine Scheibe oder zwei Scheiben übereinander angeordnet sind. Die Einfachglasscheiben sind zur Verminderung des Strahlungsaustausches zwischen zwei gegenüber angeordneten Glasscheibenebenen einseitig beschichtet. Durch die Anordnung von 3 bis 5 Scheibenebenen hintereinander in Blickrichtung von innen nach außen können sehr niedrige Wärmedurchgangszahlen erreicht werden.

Publication: [DE 102014002333 A1 20150813](#)

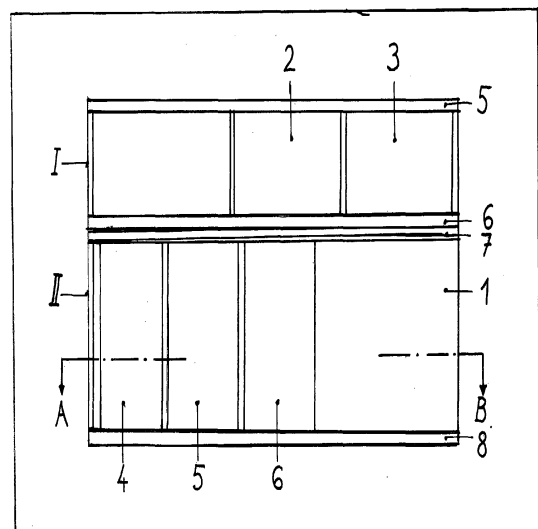
Applicant: Mehlig, Johannes Georg, Dr.-Ing., 99084, Erfurt, DE

Inventor: Mehlig, Johannes Georg, Dr.-Ing., 99084, Erfurt, DE

Prio:

Appl.No:

IPC: E06B 3/46 2006.01 (IA)

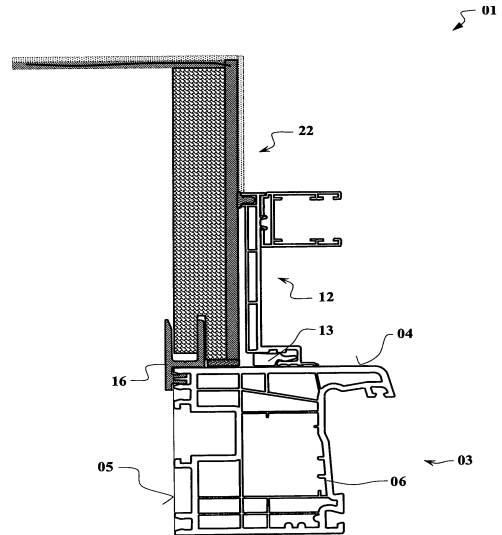


Rahmenanordnung zur Abdichtung eines Fensters in einer Wandöffnung

Die Erfindung betrifft eine Rahmenanordnung (01) zur Abdichtung eines Fenster- und/oder Türelementes in einer Wandöffnung eines Gebäudes mit einem in der Leibung der Wandöffnung angeordneten Blendrahmen (03) und mit einem auf der Gebäudeaußenseite vor dem Blendrahmen (03) angeordneten Verkleidungselement (22). Durch die Verwendung eines neuartigen Anschlagprofils (16) mit einem ersten mit dem Blendrahmen (03) zusammenwirkenden Anschlagmittel (18) und einem zweiten mit dem Verkleidungselement (22) zusammenwirkenden Anschlagmittel (19, 20) kann eine vorbestimmte Lage des Verkleidungselements (22) relativ zum Blendrahmen (03) gewährleistet werden.

Publication: [DE 102014101463 A1 20150806](#)

Applicant: HANSE HAUS GmbH, 97789, Oberleichtersbach, DE
Inventor: Schäfer, Jürgen, 97795, Schondra, DE
Prio:
Appl.No:
IPC: E06B 1/68 2006.01 (IA)

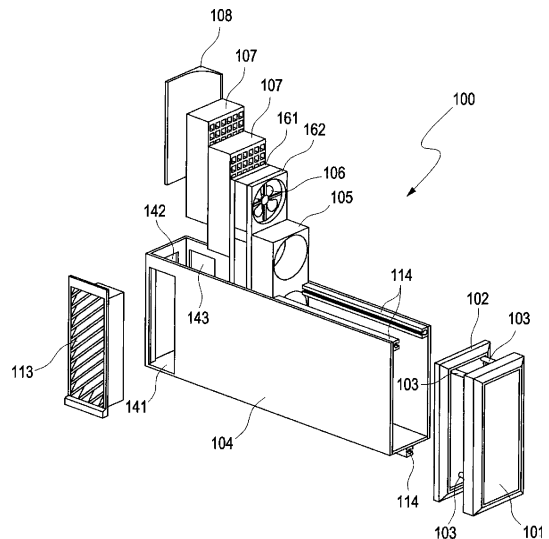


Fensterkomplettmodul, integriertes Lüftungsmodul sowie Dämmelement

Die Erfindung betrifft ein Fensterkomplettmodul (200, 200', 200'') zum Einbau in ein Gebäude, wobei das Fensterkomplettmodul (200, 200', 200'') unter Verwendung eines Dämmmaterials (220, 220', 220'') gefertigt ist, und wobei das Dämmmaterial (220, 220', 220'') eine Ausnehmung (210, 210', 210'') aufweist, in welcher ein integriertes Lüftungsmodul (100, 100', 100'') mindestens teilweise anordenbar ist. Ferner betrifft die Erfindung ein integriertes Lüftungsmodul (100, 100', 100'') und ein Dämmelement (300).

Publication: [DE 102014101544 A1 20150813](#)

Applicant: Beck & Heun GmbH, 35794, Mengerskirchen, DE
Inventor: Beck, Bernhard, 35794, Mengerskirchen, DE;
Beck, Michael, 35794, Mengerskirchen, DE;
Beck, Volker, 35794, Mengerskirchen, DE
Prio:
Appl.No:
IPC: E06B 7/02 2006.01 (IA)



Beschattungsanlage mit horizontalen Faltslamellen

Die Erfindung betrifft eine Beschattungsanlage mit horizontalen Faltslamellen (2, 3) zwischen zwei horizontal angeordneten Schienen (4, 5), wobei an den Schienen (4, 5) und zwischen diesen verlaufend Schnüre (6, 7) oder Stangen vorgesehen sind und mindestens die untere Schiene (4) relativ gegenüber der oberen Schiene (5) verschiebbar angebracht ist und die untere Faltslamelle (3) des faltbaren Behangs (1) an der unteren Schiene (4) und die obere Faltslamelle (3) an der oberen Schiene (5) befestigt sind. Zur verdeckten Montage ist vorgesehen, dass mindestens die untere Schiene (4) an der Oberseite einen U-förmigen Aufnahmekanal (14), bestehend aus Seitenblenden (15a, 15b) und einer verbindenden Querwand (16), aufweist, wobei an oder in der Querwand (16) die lösbaren Befestigungselemente (17) fixiert sind und die Gegenbefestigungselemente (18) an der Unterseite der unteren Faltslamelle (3) angebracht sind und die Seitenblenden (15, 15b) die Querwand (16) mindestens um die Höhe des Verbundes aus Befestigungs- und Gegenbefestigungselementen, einschließlich der unteren Faltslamelle (3), überstehen.

Publication: [DE 102014101679 A1 20150813](#)

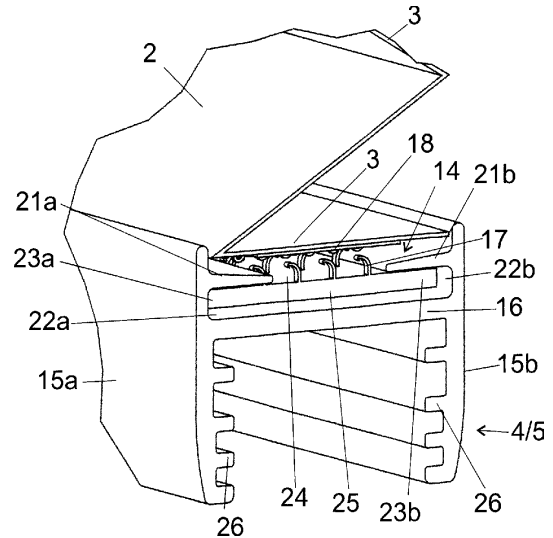
Applicant: Lienert, Achim, 95632, Wunsiedel, DE

Inventor: Lienert, Achim, 95632, Wunsiedel, DE

Prio:

Appl.No:

IPC: E06B 9/262 2006.01 (IA)



Antriebsanordnung

Die Erfindung betrifft eine Antriebsanordnung (1), insbesondere zur Betätigung eines Sonnenrollos (21) eines Kraftfahrzeugs, mit einer Betätigungsstange (2) mit Außengewinde (3) und einem Hohlzylinder (4) mit Innengewinde (5), wobei die Betätigungsstange (2) koaxial in dem Hohlzylinder (4) angeordnet ist, wobei das Außengewinde (3) der Betätigungsstange (2) das Innengewinde (5) des Hohlzylinders (4) derart kämmt, dass bei einer relativen Verdrehung von Betätigungsstange (2) und Hohlzylinder (4) eine axiale Verlagerung von Betätigungsstange (2) relativ zum Hohlzylinder (4) erfolgt, wobei die Betätigungsstange (2) unverdrehbar geführt ist und der Hohlzylinder (4) mittels eines Antriebs (6) verdrehbar ist.

Publication: [DE 102014101697 A1 20150813](#)

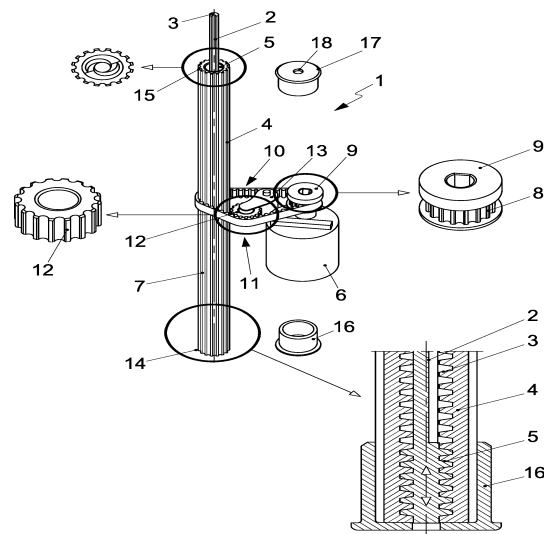
Applicant: Dr. Ing. h.c. F. Porsche Aktiengesellschaft, 70435, Stuttgart, DE

Inventor: Johann, Michael, 71732, Tamm, DE; Hilt, Rainer, 66740, Saarlouis, DE; Kirchner, Jonas, 97828, Marktheidenfeld, DE

Prio:

Appl.No:

IPC: E06B 9/70 2006.01 (IA)



Türblatt

Beschrieben wird ein Türblatt 1 mit einer Mittellage 2, einem die Mittellage 2 umlaufenden Türrahmen 3 und zwei, die beiden Oberflächen des Türblattes 1 bildende, die Mittellage 2 und den Türrahmen 3 abdeckende Absperrschichten. Zumindest eine der beiden Absperrschichten besteht aus zumindest zwei plattenförmigen Elementen 4, 5, wobei die dem Türblatt 1 abgewandte Oberfläche der plattenförmigen Elemente 4, 5 mit jeweils einer CPL-Schicht 6, 7 ausgestattet ist und die CPL-Schichten 6, 7 eine unterschiedliche optische Gestaltung der plattenförmigen Elemente 4, 5 bewirken.

Publication: [DE 102014101876 A1 20150820](#)

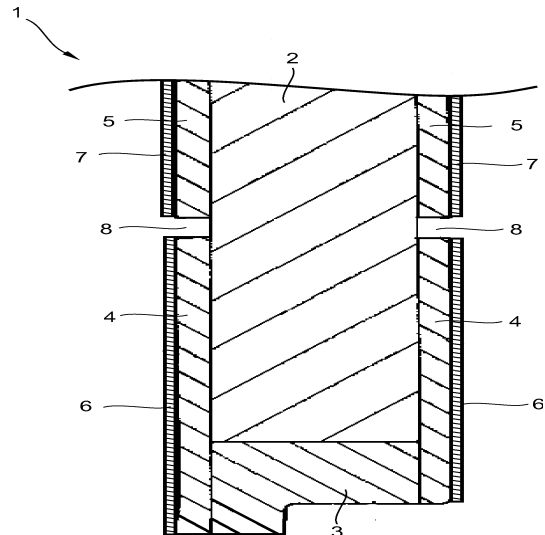
Applicant: G. Keller Fenster & Türen GmbH, 94447, Plattling, DE; Sand Türen GmbH, 91737, Ornbau, DE; Schirlinging Türen GmbH, 93057, Regensburg, DE

Inventor: Sand, Otto, 91572, Bechhofen, DE

Prio:

Appl.No:

IPC: E06B 3/72 2006.01 (IA)



Rollraumverkleidung für einen Rollladenkasten

Eine Rollraumverkleidung mit Halterungen 30, 50 für eine Isoliermatte 20 kann in einen bestehenden Rollladenkasten 3 montiert werden ohne die Rollladenwelle 2 auszubauen, wenn die Halterungen 30, 50 je eine die Rollladenwelle 2 zumindest zum Teil umgreifende Ausnehmung 33, 53 haben, deren Rand im montierten Zustand mit der Rollladenwelle 2 einen Drehspalt 32, 52 bildet.

Publication: [DE 102014102381 A1 20150827](#)

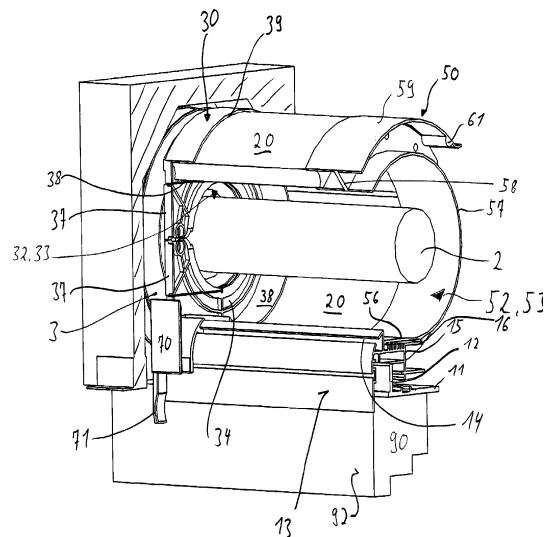
Applicant: Detenhoff, Reiner, 82229, Seefeld, DE

Inventor: Detenhoff, Reiner, 82229, Seefeld, DE

Prio:

Appl.No:

IPC: E06B 9/17 2006.01 (IA)

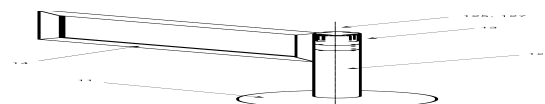


Absperrpfosten, sowie Absperrpfostenanordnung

Absperrpfosten (1), wobei der Absperrpfosten eine Schranke (14) umfasst, sowie Absperrpfostenanordnung, umfassend einen ersten Absperrpfosten (1) und mindestens einen zweiten Absperrpfosten (2), wobei es sich bei mindestens einem Absperrpfosten um einen Absperrpfosten gemäß mindestens einem der Ansprüche 1 bis 12 handelt.

Publication: [DE 102014105522 A1 20150820](#)

Applicant: Via Guide GmbH, 59757, Arnsberg, DE



Inventor: Schnieder, Andreas, 59759, Arnsberg, DE;
 Cronenberg, Carl-Julius, 59757, Arnsberg, DE
Prio: DE 20140214 10 2014 101 883.4
Appl.No:
IPC: E06B 11/02 2006.01 (IA)

Kippsicherung für Leitern

Die Erfindung betrifft eine Kippsicherung für Leitern, insbesondere Anlegeleitern. Die Kippsicherung umfasst wenigstens einen Ausleger, welcher von einer seitlich der Leiter nach außen weisenden Sicherungsstellung in eine zwischen den Holmen oder an einem Holm zu liegen kommende Transportstellung verschwenkbar ist und die Schwenkebene etwa parallel zu der durch die Holme der Leiter aufgespannten Ebene verläuft.

Publication: **DE 102014117975 A1 20150806**

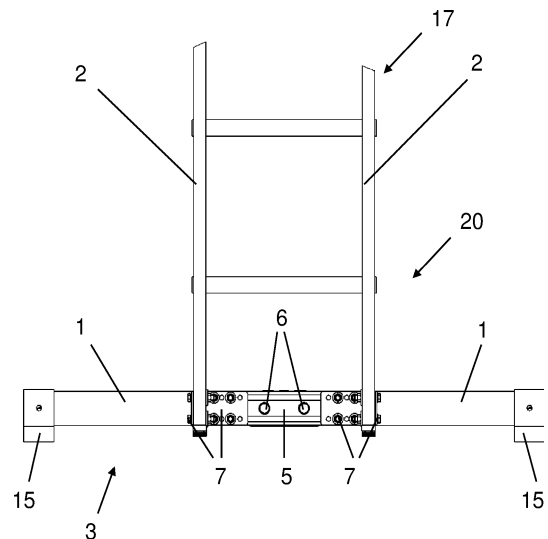
Applicant: Lorenz Hasenbach GmbH & Co. KG, 65520, Bad Camberg, DE

Inventor: Alm, Klaus, 65520, Bad Camberg, DE

Prio: DE 20140204 20 2014 100 469.6

Appl.No:

IPC: E06C 7/46 2006.01 (IA)



Dichtleiste mit integrierter Dichtlippe

Die Erfindung betrifft eine Dichtleiste (1) zur Befestigung an einer Rahmenstruktur, beispielsweise einem Gitterspannrahmen, mit einer Dichtlippe (2) und einer Befestigungsstruktur (3) zur Verbindung mit der Rahmenstruktur (5), dadurch gekennzeichnet, dass die Dichtleiste (1) einstückig ausgebildet ist, wobei die Dichtlippe (2) unlösbar mit der Befestigungsstruktur (3) verbunden ist. Des Weiteren betrifft die Erfindung ein System, umfassend eine Dichtleiste gemäß dem obigen Aspekt der Erfindung und eine Rahmenstruktur (5), wobei die Rahmenstruktur (5) eine einzelne Aufnahme für die Befestigungsstruktur (3) aufweist und die Dichtlippe (2) im Einbauzustand in einer vorab festgelegten Weise, vorzugsweise vorgespannt, von der Rahmenstruktur (5) absteht.

Publication: **DE 102014202046 A1 20150806**

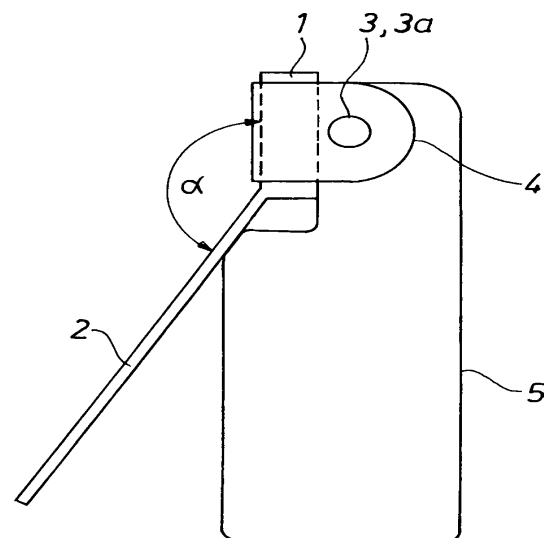
Applicant: Büdenbender, Arnd, 57250, Netphen, DE

Inventor: Büdenbender, Arnd, 57250, Netphen, DE

Prio:

Appl.No:

IPC: E06B 9/52 2006.01 (IA)



Mit einem wärmedämmenden Material befüllter Rahmen und Verfahren zu dessen Herstellung

Mit einem wärmedämmenden Material gefülltes Hohlprofil eines Rahmens, bei dem das Hohlprofil so zusammengefügt ist, dass die Hohlräume aller Rahmenseiten untereinander in leitender Verbindung stehen und das Hohlprofil verschließbare Öffnungen aufweist, wobei a) die verschließbaren Öffnungen a1) mindestens eine Öffnung (1) am unteren Profil, a2) mindestens eine Öffnung (2) am oberen Profil, und a3) jeweils mindestens eine Öffnung (3) und Öffnung (4) jeweils an den seitlichen Profilen in der Ecke zum oberen Profil umfassen, und b) das wärmedämmende Material b1) ein schüttfähiges Material ist, b2) eine Kieselsäure enthält und b3) das Hohlprofil des Rahmens zu wenigstens 95% ausfüllt.

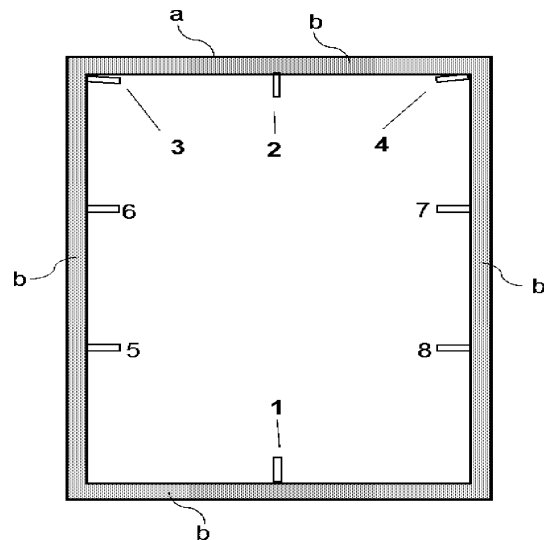
Publication: [DE 102014203091 A1 20150820](#)

Applicant: Evonik Degussa GmbH, 45128, Essen, DE
Inventor: Schäffner, Dirk, 76756, Bellheim, DE; Krämer, Ann-Kathrin, 63452, Hanau, DE; Gärtner, Gabriele, 01219, Dresden, DE; Asbahr, Hark-Oluf, Dr., 67161, Gönningheim, DE; Menzel, Frank, Dr., 63456, Hanau, DE; Geisler, Matthias, Dr., 63538, Großkrotzenburg, DE

Prio:

Appl.No:

IPC: E06B 3/263 2006.01 (IA)



Rollraumverkleidung für einen Rollladenkasten

Eine Rollraumverkleidung mit Halterungen 30, 50 für eine Isoliermatte 20 kann in einen bestehenden Rollladenkasten 3 montiert werden ohne die Rollladenwelle 2 auszubauen, wenn die Halterungen 30,50 je eine die Rollladenwelle 2 zumindest zum Teil umgreifende Ausnehmung 33, 53 haben, deren Rand im montierten Zustand mit der Rollladenwelle 2 einen Drehspalt 32, 52 bildet.

Publication: [DE 102015102302 A1 20150827](#)

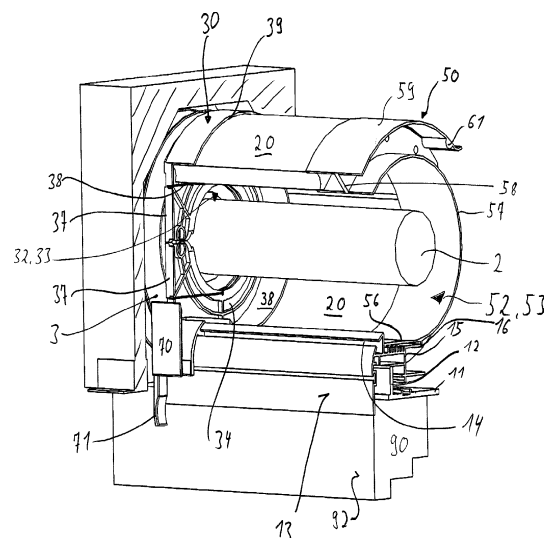
Applicant: Detenhoff, Reiner, 82229, Seefeld, DE

Inventor: Detenhoff, Reiner, 82229, Seefeld, DE

Prio: DE 20140224 20 2014 010 289.9

Appl.No:

IPC: E06B 9/17 2006.01 (IA)



Fenster und Profilsystem für ein Fenster

Um bei einem Profilsystem für ein Fenster oder eine Tür auf der Basis eines Kunststoff-Grundprofils veränderte optische Außenansichten, insbesondere eine flächenbündige Außenansicht, zu ermöglichen, wird ein Profilsystem vorgeschlagen, das neben einem Flügelrahmenprofil 1, 1' und einem Blendrahmenprofil 2 ein als Hohlkammerprofil aus Metall ausgebildetes Vorsatzprofil 3, 3', das an seiner Außenseite einen Anschlag für eine Verglasung 9 aufweist, und ein an dem Vorsatzprofil 3, 3' befestigbares Abdeck- und Dichtungsprofil 5 umfasst. Das Abdeck- und Dichtungsprofil 5 weist einen als Schenkel ausgeführten Dichtungsbereich 8 auf, der bei bestimmungsgemäßer Befestigung an dem Vorsatzprofil die Außensichtfläche 20 des Flügelrahmens vollständig abdeckt.

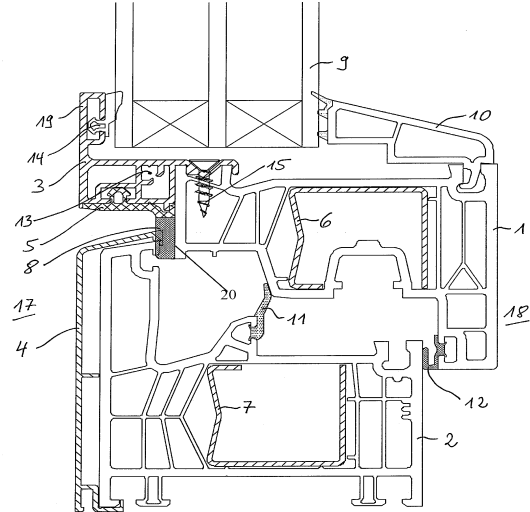
Publication: [DE 102015102850 A1 20150827](#)

Applicant: profine GmbH, 53840, Troisdorf, DE
Inventor: Schreder, Gerhard, Ungenach, AT; Speiser, Leonhard, Pichl, AT

Prio: DE 20140227 10 2014 102 644.6

Appl.No:

IPC: E06B 3/26 2006.01 (IA)



WATERPROOF DEVICE OF OPENING

PROBLEM TO BE SOLVED: To provide a waterproof device of an opening, allowing entrance/exit into/from the opening after installation of the opening.**SOLUTION:** A waterproof device of an opening includes: a sheet 10 communicating an indoor side and an outdoor side of a structure S and installed in the opening O opened/closed by an opening and closing door 4; holding members 20 for holding the sheet 10 on an outdoor side further than the opening and closing door 4; a strut member 50 on which the upper end of the sheet 10 is suspended; and a plurality of hook members 51 to which the upper end of the sheet 10 is attached. The holding members 20 hold the sheet 10 so that the sheet 10 covers a specified part 41 of a vertical direction lower end side of the opening and closing door 4 and a part adjacent to the specified part 41 of the structure S and a lower part 13 of the sheet extends along a floor surface 7 to an outdoor side. The strut member 50 is provided along a width direction of the opening O on the outdoor side further than the opening and closing door 4. The hook members 51 are provided to be movable in a longitudinal direction of the strut member 50.**COPYRIGHT:** (C)2015,JPO&INPIT

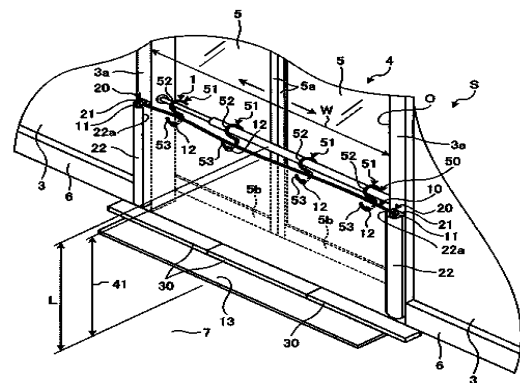
Publication: [JP 2015061966 A 20150402](#)

Applicant: BUNKA SHUTTER CO LTD
Inventor: OI MASARU; SUGAYA NOBUYUKI; NAKAJIMA KOJI

Prio: JP 20130822 2013172642

Appl.No: JP2014167218

IPC: E06B 5/00 2006.01 (IA)

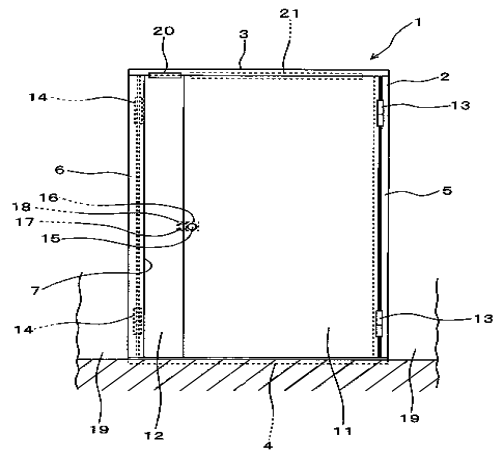


DOOR DEVICE FOR DIFFERENTIAL PRESSURE

PROBLEM TO BE SOLVED: To provide a door device for differential pressure that can simplify the structure of the whole device and can be easily assembled. **SOLUTION:** A door of a door device 1 installed at a boundary between a low pressure region and a high pressure region comprises: a first door 11 that is openable and closable with respect to a door frame 2 about first hinges 13 mounted to one width-direction side end; and a second door 12 that is openable and closable with respect to the door frame 2 about second hinges 14 mounted to the other width-direction side end. The first door 11 in the first and second doors 11, 12 juxtaposed in the width direction is provided with a latch member 17 that is engaged with and disengaged from the second door 12 by a door knob 15 provided in the first door 11 and serving as an operation member. The second door 12, from which the latch member 17 is disengaged, is opened and rotated toward the low pressure region side about the second hinges 14 by the high pressure region-side pressure. **COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015063796 A 20150409](#)

Applicant: BUNKA SHUTTER CO LTD
Inventor: ISHIKURA NORIO
Prio:
Appl.No: JP2013196558
IPC: E06B 5/16 2006.01 (IA)

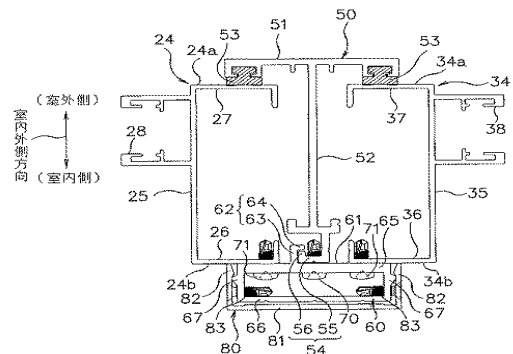


BAND WINDOW

PROBLEM TO BE SOLVED: To restrain a mullion base of a mullion, which couples jambs adjacent to each other on right and left sides of a band window, from being deformed into a wavy state due to thermal elongation. **SOLUTION:** A mullion 40 couples jambs 24 and 34 adjacent to each other on right and left sides of a band window by fixing a mullion base 60 to an indoor side part of a mullion body 50 by a screw 70. A part 54 to be locked and a locking part 62 are provided in the mullion body 50 and the mullion base 60 respectively so that movement of the mullion base 60 in an indoor-side direction can be regulated by bringing an indoor side surface of the locking part 62 into contact with an outdoor side surface of the part 54 to be locked. The deformation of the mullion base 60 into a wavy state when thermal elongation of the mullion base 60 is caused by heating can be suppressed by the locking part 62 and the part 54 to be locked. **COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015063800 A 20150409](#)

Applicant: YKK AP INC
Inventor: TAJIMA HIDEYUKI
Prio:
Appl.No: JP2013196673
IPC: E06B 1/18 2006.01 (IA)

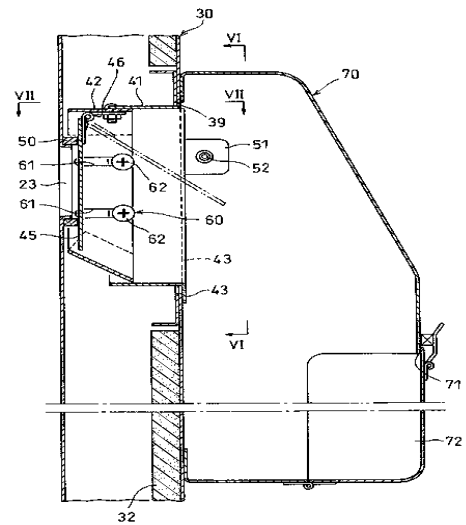


ENTRANCE DOOR

PROBLEM TO BE SOLVED: To provide an entrance door of which the installation state with good appearance is constantly obtained for installation of a mailbox for receiving mails by facilitating a repair work by making installation of a blind member for blocking a gap. **SOLUTION:** An outer periphery of an inner panel 30 is screwed to a reinforcement part of a door body, and a notch 39 is provided in each of the inner panel 30 and a heat insulation board 32 opposite to a mail input port formed at the door body. A guide cylinder is incorporated into the notch 39, the guide cylinder is formed of a fixing guide cylinder part 41 the rear end part of which is fixed to the inner panel 30 and a movable guide cylinder part 42, made possible to extend and contract, an oscillatable inner cover 45 for opening/closing the mail input port is provided in a tip opening of the movable guide cylinder part 42, and a mailbox 70 is provided on an indoor side face of the inner panel 30. The mailbox 70 is installed so as to cover the whole of an indoor side opening of the notch 39, and a construction work for blocking a gap to be formed between an inner periphery of the notch 39 and an outer periphery of the guide cylinder by installation of a blind member is made unnecessary. COPYRIGHT: (C)2015,JPO&INPIT

Publication: [JP 2015063832 A 20150409](#)

Applicant: SHIBUTANI:KK
Inventor: NAKATSUKA SATOSHI; MORIOKA KANICHI
Prio:
Appl.No: JP2013198209
IPC: E06B 3/70 2006.01 (IA)

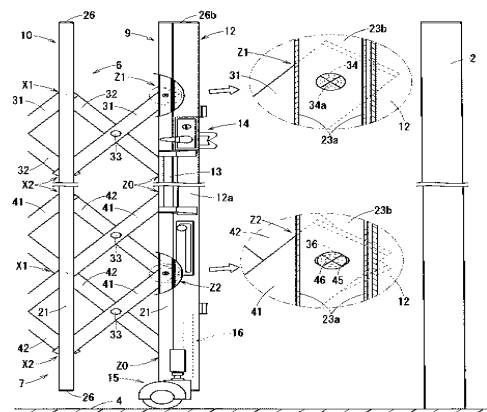


STRETCH TYPE GATE DOOR

PROBLEM TO BE SOLVED: To provide a stretch type gate door in which inclination of mobile vertical frame may be adjusted even though a plurality of pantograph mechanisms are vertically arranged. **SOLUTION:** A plurality of pantograph mechanisms 6, 7 are vertically arranged, in which a plurality of inclination links 31, 32, 41, 42 that are respectively inclined upward to the right or downward to the right are arranged in horizontal direction and are assembled in a cross shape so as to be stretchable. A stretch type gate door includes a mobile vertical frame 9 bridging each of mobile side end parts of the plurality of pantograph mechanisms 6, 7. Connecting parts to end parts of the inclination links 31, 32, 41, 42 are arranged at plural positions in vertical direction of the mobile vertical frame 9. The plural connecting parts comprise, for example, one first connecting part Z1 regulating relative movement in vertical direction and stretch direction, and one or more second connecting parts Z2 regulating the relative movement in vertical direction and allowing relative movement in stretch direction. One second connecting part Z2 is respectively arranged on the pantograph mechanism 7 comprising no first connecting part Z1 among the plurality of pantograph mechanism 6, 7. COPYRIGHT: (C)2015,JPO&INPIT

Publication: [JP 2015063844 A 20150409](#)

Applicant: NIPPON KOKI CO LTD; TAKASHO CO LTD
Inventor: MIYAZAKI TADAHARU; TAKAOKA NOBUO
Prio:
Appl.No: JP2013198499



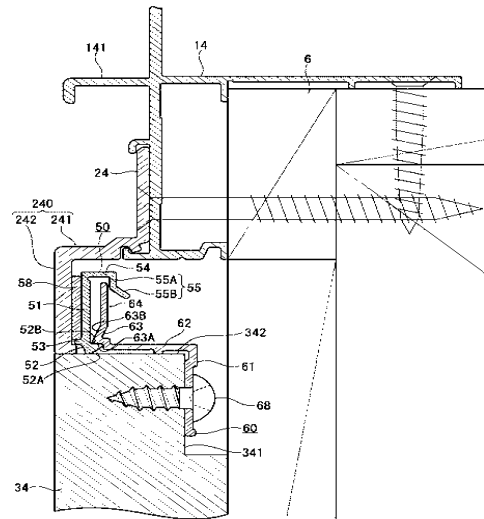
IPC: E06B 11/02 2006.01 (IA)

FITTINGS

PROBLEM TO BE SOLVED: To provide fittings capable of improving designability of an angle of a fitting frame and detail between casings and capable of shortening a construction period.SOLUTION: A double sliding window includes a window frame that is attached to an opening of a building and that has an angle part 240, and a casing 34 that is arranged on the indoor side of the window frame. An indoor-side part of the angle part 240 can be deformed in a face direction. A frame-side coupling member 50 is fixed to the back side of the angle part 240, and a casing-side coupling member 60 is fixed to the casing 34. The angle part 240 is deformed, and the frame-side coupling member 50 is engaged with the casing-side coupling member 60.COPYRIGHT: (C)2015,JPO&INPIT

Publication: **JP 2015063848 A 20150409**

Applicant: YKK AP INC
Inventor: SAITO DAISUKE; SHIRAHAMA TOMOHIKO
Prio: JP2013198710
Appl.No: JP2013198710
IPC: E06B 1/62 2006.01 (IA)

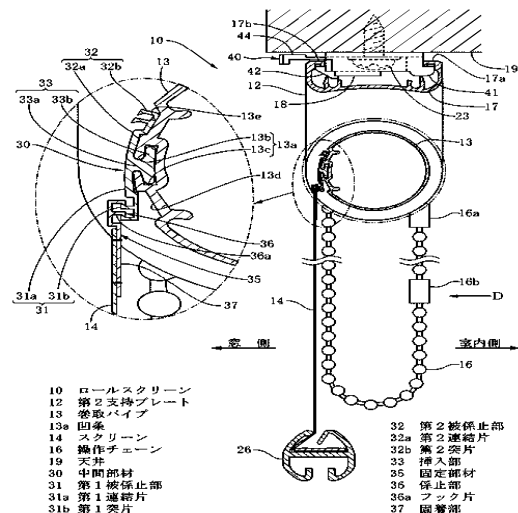


SCREEN FIXING STRUCTURE FOR ROLL SCREEN

PROBLEM TO BE SOLVED: To improve operability of operation chain by making a single operation chain to be attached on either of right and left sides of a screen with a comparatively simple operation.SOLUTION: Both edges of a winding pipe 13 are supported on a pair of support plates 12 attached on a ceiling 19. A screen 14 whose upper edge is fixed on the winding pipe is wound on the winding pipe in a drawable manner. A single operation chain 16 is operated for drawing and winding the screen by rotating the winding pipe in forward or reverse. On peripheral surface of a winding pipe, a recessed strip 13a extending in longitudinal direction of the winding pipe is formed. The upper edge of the screen is fixed on the recessed strip via a fixing member 35. The fixing member comprises a locking part 36 locking the fixing member on the recessed strip via a middle member 30 and a fixed part 37 fixed on the upper edge of the screen. When the winding pipe is laterally inverted together with the screen, the screen is further inverted relative to the winding pipe and the locking part is locked on the recessed strip.COPYRIGHT: (C)2015,JPO&INPIT

Publication: **JP 2015063885 A 20150409**

Applicant: TOSO CO LTD
Inventor: MATSUMIYA KAZUTO; TSUKAMOTO MASAHIKO
Prio: JP 20130826 2013174144
Appl.No: JP2014166564
IPC: E06B 9/44 2006.01 (IA)

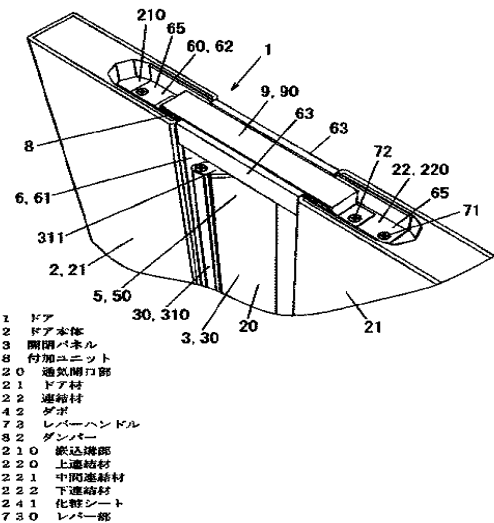


DOOR

PROBLEM TO BE SOLVED: To provide a door in which an opening/closing body for opening/closing a ventilation opening part can be simply closed.**SOLUTION:** A door includes a door body 2 and an opening/closing panel 3. The door body 2 has: left and right door materials 21; and a plurality of connecting materials 22 provided vertically spaced apart from each other between both the door materials 21 and connecting both the door materials 21. In the door body 2, a ventilation opening part 20 is provided which is surrounded by both the door materials 21 and the connecting materials 22 vertically spaced apart from each other and penetrating in a front and rear direction. In the ventilation opening part 20, the opening/closing panel 3 is provided so as to be rotatable around a vertical shaft between a closing position at which the ventilation opening part 20 is closed and an opening position at which the ventilation opening part 20 is opened, and an additional unit 8 is provided which applies energization force to the opening/closing panel 3 closed to a prescribed opening angle to rotate to the closing position. The additional unit 8 is incorporated within the connecting materials 22.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015067962 A 20150413](#)

Applicant: PANASONIC CORP
Inventor: ISHII MASA
Prio:
Appl.No: JP2013200377
IPC: E06B 7/04 2006.01 (IA)

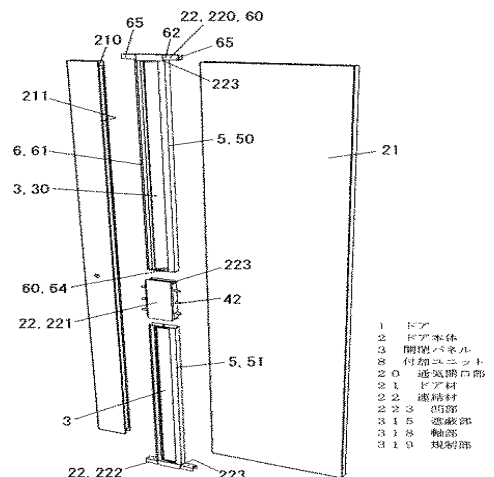


DOOR

PROBLEM TO BE SOLVED: To provide a door capable of preventing light leakage.**SOLUTION:** A door body 2 includes: right and left door members 21; plural connection members 22 which are disposed being separated in a vertical direction between the door members 21 to connect the door members 21. The door body 2 includes a ventilation opening 20 formed being opened in a front/rear direction and being enclosed by the door members 21 and connection members 22 which are separated at the top and the bottom. The ventilation opening 20 is provided with an open/close panel 3 which is rotatable on a vertical direction. The connection member 22 includes a concave portion 223 which is formed to open to the ventilation opening 20. The open/close panel 3 is provided with a sealing member 315 at the ends of concave portion 223 in a vertical direction. The sealing member 315 is inserted in the concave portion 223. A bearing is provided on either one of a recess of the concave portion 223 and a facing plane of the sealing member 315 facing to the recess. A shaft 318 protrudes in the vertical direction so as to be rotatably supported by the bearing.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015067963 A 20150413](#)

Applicant: PANASONIC IP MANAGEMENT CORP
Inventor: ISHII MASA
Prio:
Appl.No: JP2013200378
IPC: E06B 7/084 2006.01 (IA)



DOOR

PROBLEM TO BE SOLVED: To provide a door having a ventilation opening and an open/close panel, which is easy-to-manufacture. **SOLUTION:** A door includes: right and left door members 21; and a panel unit 5. The panel unit 5 has a frame body 6 including a ventilation opening 20 which is formed in a central area so as to be opened in a front/rear direction, and an open/close panel 3 which is connected to horizontal frame members 60 at the top and the bottom of the frame body 6 so as to rotate on a vertical direction between a close position where the ventilation opening 20 is closed and an open position where the ventilation opening 20 is opened. The panel unit 5 is disposed between the right and left door member 21 and frame body 6 is connected to the door members 21. COPYRIGHT: (C)2015,JPO&INPIT

Publication: [JP 2015067964 A 20150413](#)

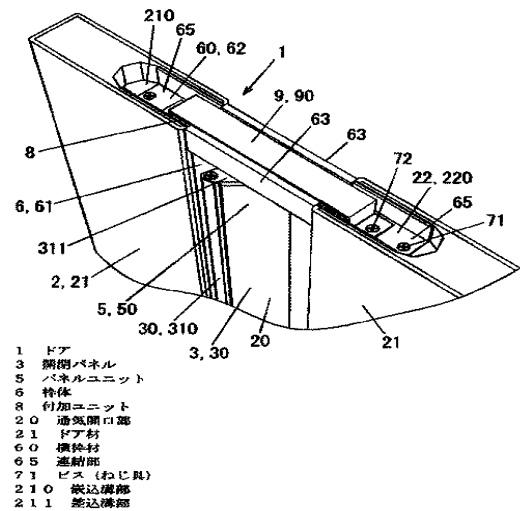
Applicant: PANASONIC IP MANAGEMENT CORP

Inventor: ISHII MASA

Prio:

Appl.No: JP2013200379

IPC: E06B 7/084 2006.01 (IA)



DOOR

PROBLEM TO BE SOLVED: To provide a door capable of preventing fire spreading by preventing a flame and smoke from butt parts of master and slave doors from communicating with each other in the case of fire. **SOLUTION:** A door comprises a master door 1 and a slave door 2. The slave door 2 has a smoke guard 3 at a door end part. The smoke guard 3 has a tight material 4 on a face part 3b. The tight material 4 has a soft resin fin piece part 5 that abuts on the master door 1, and an expandable fire-resistant material part 6 that is expanded by heat generated by a fire. COPYRIGHT: (C)2015,JPO&INPIT

Publication: [JP 2015067975 A 20150413](#)

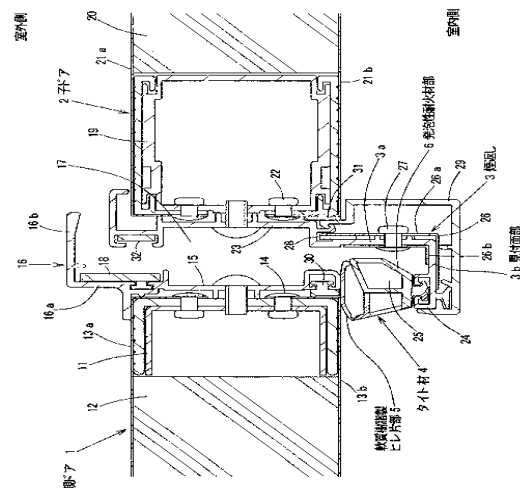
Applicant: SANKYOTATEYAMA INC

Inventor: HIROSE TOMONORI; TAKEDA YOICHI; MATSUI SATOKO; MASUI YUKI; NISHIO NAOHIRO

Prio:

Appl.No: JP2013200714

IPC: E06B 7/23 2006.01 (IA)

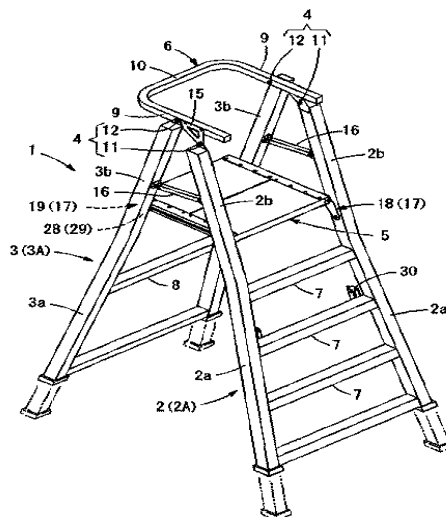


STEPLADDER SYSTEM WORKBENCH

PROBLEM TO BE SOLVED: To provide a stepladder system workbench capable of expanding and storing a floor top plate by interlocking with opening-closing of a leg body. **SOLUTION:** An interlocking mechanism (17) is provided for changing an attitude of a floor top plate (5) between a lateral attitude and a longitudinal attitude by interlocking with opening-closing operation of a first leg body and a second leg body, to constitute pivoting means (18) for mutually rotatably pivoting a base end part of the floor top plate (5) and the first leg body (2) around a horizontal shaft and moving connection means (19) for mutually movably connecting the floor top plate (5) and the second leg body (3). The moving connection means (19) comprises shaft means (26) provided in one of the floor top plate (5) and the second leg body (3) and guide means (25) provided in the other, and the shaft means (26) is constituted so as to move along the guide means (25) by following up a change in a crossing angle between the floor top plate (5) and the second leg body (3). **COPYRIGHT:** (C)2015, JPO&INPIT

Publication: [JP 2015067980 A 20150413](#)

Applicant: ALINCO INC
Inventor: SAWACHIKA KUNIAKI
Prio:
Appl.No: JP2013200891
IPC: E06C 1/39 2006.01 (IA)

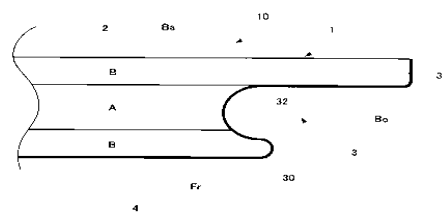


BASE MATERIAL FOR DOOR, AND DECORATIVE MATERIAL FOR DOOR

PROBLEM TO BE SOLVED: To provide a base material for a door, which can make surface smoothness of a grip part proper, and a decorative material for the door. **SOLUTION:** A base material 1 for a door comprises a wood base plate having one or more layers, and a recess-shaped grip part 3 for being hooked on fingers in opening/closing of a door is formed in a body part 2. The density of at least a bottom surface part Bo, which is elongated along a rear surface Ba of the body part 2, of a surface of the grip part 2 is 0.8 g/cm³ or more. **COPYRIGHT:** (C)2015, JPO&INPIT

Publication: [JP 2015067988 A 20150413](#)

Applicant: DAINIPPON PRINTING CO LTD
Inventor: NAKAGAWA HITOSHI; KAWAI KIYOSHI
Prio:
Appl.No: JP2013201359
IPC: E06B 3/70 2006.01 (IA)

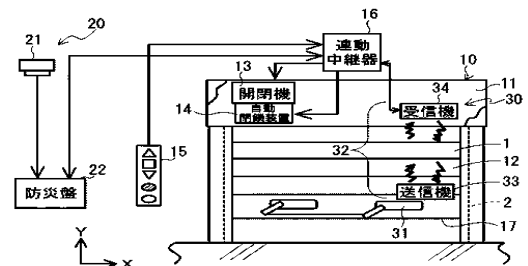


RADIO WAVE TYPE WIRELESS RADIO SYSTEM OF SWITCHGEAR

PROBLEM TO BE SOLVED: To provide a radio wave type wireless radio system of a switchgear in which the registration work of a transmitter ID and a receiver ID can be performed simply and in a short time, and thereby the possibility of causing false registration can be reduced.
SOLUTION: A radio wave type wireless radio system 32 of a shutter arrangement 10 includes a transmitter 33 and a receiver 34 for performing two-way communication by radio transmission. The transmitter 33 includes a transmitter ID for uniquely identifying the transmitter 33, and a memory unit for storing a receiver ID for uniquely identifying a receiver 34 to be a communication target. The receiver 34 includes a receiver ID for uniquely identifying the receiver 34, and the memory unit for storing the transmitter ID for uniquely identifying the transmitter 33 to be the communication target. When the transmitter 33 transmits the transmitter ID, the receiver 34 performs predetermined processing with respect to registering the transmitter ID and transmits the receiver ID, and then the transmitter 33 performs the predetermined processing with respect to registering the receiver ID.
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Publication: [JP 2015067996 A 20150413](#)

Applicant: SANWA SHUTTER CORP
Inventor: ASAMI YUJI; OTSUKA HIROSHIGE
Prio:
Appl.No: JP2013201691
IPC: E06B 9/84 2006.01 (IA)

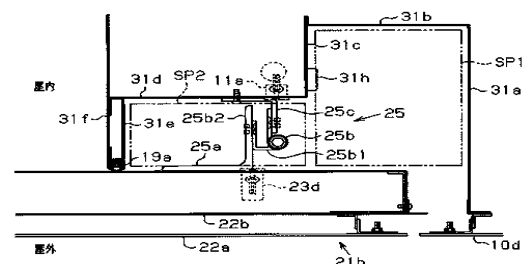


DOOR DEVICE

PROBLEM TO BE SOLVED: To provide a door device capable of improving crime prevention and design.
SOLUTION: When looking from the outdoors of a building, a door 21b of a door device has the same surface form and coloration as a wall surface of the building. In a door panel 22b, a rotary mechanism 25 is fixed at a position away from a suspending base side toward a door end side by a predetermined distance. The rotary mechanism 25 is stored in an internal space surrounded by frames 31a, 31b, 31c, 31d, 31e of the building. The internal space consists of a first region SP1 in which a suspending base end of the door 21b rotates and a second region SP2 in which the rotary mechanism 25 is stored. In the door 21b, an end closer to a wall surface 10d side than the rotary mechanism 25 rotates until it is brought into contact with a cushioning material 31h in the first region SP1.
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Publication: [JP 2015068002 A 20150413](#)

Applicant: OHBAYASHI CORP
Inventor: MITANI KATSUAKI; YAMADA SHUJI
Prio:
Appl.No: JP2013201904
IPC: E06B 3/40 2006.01 (IA)



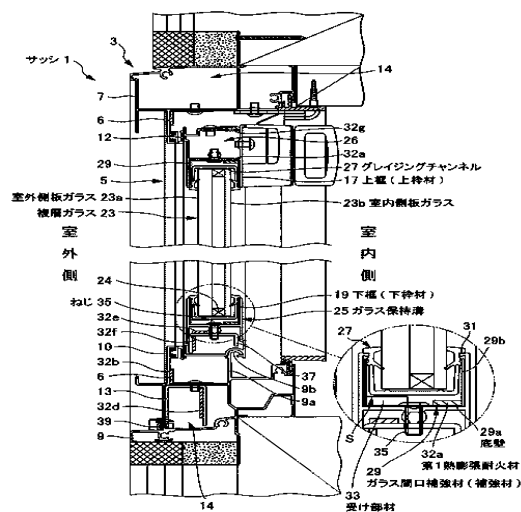
SASH

PROBLEM TO BE SOLVED: To provide a sash for improving fireproof performance, and easy in assembling, in the sash for fitting a glazing channel in an edge part of double layer glass.**SOLUTION:** In double layer glass 23, a glazing channel 27 is installed in a peripheral edge part, and a reinforcement material 29 is arranged in a glass holding groove 25 of a lower frame material 19, the reinforcement material 29 is a long material formed in a cross-sectional U-groove shape, an edge part of the double layer glass 23 is arranged in its groove together with the glazing channel 27, and a receiving member 33 and a thermal expansion fire resistant material 32a are provided on a bottom wall 29a of the reinforcement material 29. The receiving member 33 is provided at an interval in the longitudinal direction on the bottom wall of the reinforcement material 29 in a lower position of an outdoor side plate glass 23a, the thermal expansion fire resistant material 32a is provided in the longitudinal direction of the reinforcement material 29 in a lower position of an indoor side plate glass 23b, and the reinforcement material 29 screw-fastens its bottom wall 29a to the lower frame material 19.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015068004 A 20150413](#)

Applicant: SANKYOTATEYAMA INC
Inventor: FUJIMOTO TSUYOSHI; KUSAKAI TSUNENORI;
 MURAKAMI MITSUHIRO; YAMAZAKI TETSUYA;
 MIMURA TOSHIO; YASUE MAKOTO

Prio:
Appl.No: JP2013201951
IPC: E06B 5/16 2006.01 (IA)

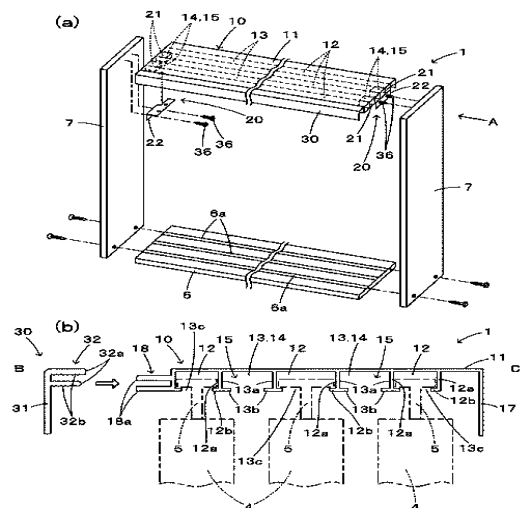


DOOR FRAME

PROBLEM TO BE SOLVED: To provide a door frame installed easily and efficiently, allowing its rail members to be maintained and replaced easily.**SOLUTION:** An upper frame 10 has a rail structure in which rail grooves 12 are formed to allow an upper end of a door panel 4 to be engaged therewith. In the vicinity of an end of the rail grooves 12 in a longitudinal direction a supported port 15 is formed to be supported by a pair of vertical frames 7. The upper frame 10 is connected to the vertical frames 7 being interposed by an upper frame support part 20a which supports and fixes the supported port 15 and a pair of connecting members 20 which include a fixing part 20b to be fixed to the inner side of the vertical frames 7 with a screw 35 at both ends in the longitudinal direction.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015068006 A 20150413](#)

Applicant: PANASONIC CORP
Inventor: KOBAYASHI TOMIO
Prio:
Appl.No: JP2013201988
IPC: E06B 1/18 2006.01 (IA)



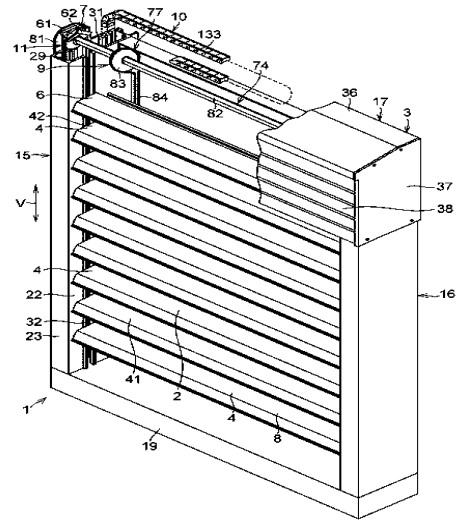
OPENING PART OPENING-CLOSING DEVICE

PROBLEM TO BE SOLVED: To provide an opening part opening-closing device formable as a constitution capable of eliminating the difficulty of executing manual operation by an operator, and also formable as a constitution capable of executing specific opening-closing operation to an opening part by a plurality of blades by specific manual operation by the operator.
SOLUTION: A blind device 1 comprises a frame body 3 arranged in an opening part 2, a plurality of blades 4 for opening-closing the opening part 2, a link mechanism 5 for mutually connecting the blades 4, a lifting mechanism 9 for lifting the plurality of blades 4 in opening-closing of the opening part 2 by raising from the blade 8 of the lowest position and lowering from the blade 8 of the lowest position and a reaction generating mechanism 10 for increasing-decreasing in response to an increase-decrease in a load of the blades 4 in the opening part 2 corresponding to the number of blades 4 lifted by the lifting mechanism 9 in the opening part 2 and imparting reaction force in the direction opposite to the direction of the load of the blades 4 in the opening part 2 to the lifting mechanism 9.
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Publication: [JP 2015068020 A 20150413](#)

Applicant: OILES ECO CORP
Inventor: TANABE KAZUHARU; OISHI MAMORU;
 HIRATSUKA TETSUYA

Prio:
Appl.No: JP2013202621
IPC: E06B 9/30 2006.01 (IA)

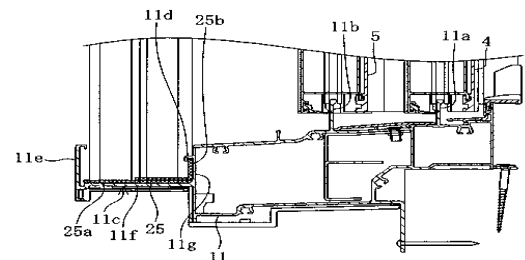


SHUTTER

PROBLEM TO BE SOLVED: To provide a shutter provided with a fire-resisting structure in the vicinity of a lower frame end part.
SOLUTION: The shutter comprises a frame body 1 of framing an upper frame 10, a lower frame 11 and left-right jambs 12 and 12, the upper frame 10 comprises a shutter box 2 for supporting and freely storing by hosting a door body 3, the door body 3 comprises a baseboard member 23 in a lower end part, and the lower frame 11 comprises a recessed part 11c for freely storing a lower end part of the baseboard member 23 along the longitudinal direction, a heating foam material 25 is arranged in an end part in the depth direction of the recessed part 11c, a heating foam material 27 opposed to the recessed part 11c is arranged along the longitudinal direction in the baseboard member 23, and one end part of the heating foam material 25 arranged in the recessed part 11c is opposed to an end part of the heating foam material 25 arranged in at least the baseboard member 23.
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Publication: [JP 2015068022 A 20150413](#)

Applicant: LIXIL CORP
Inventor: NOGUCHI HIROSHI
Prio:
Appl.No: JP2013202734
IPC: E06B 9/17 2006.01 (IA)

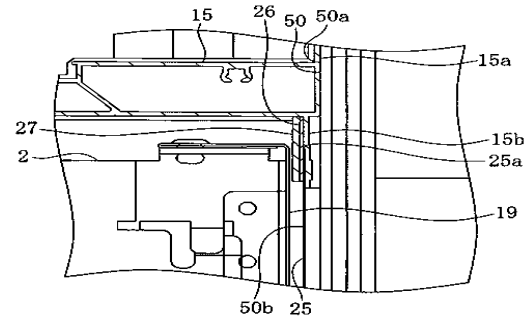


SHUTTER

PROBLEM TO BE SOLVED: To provide a shutter provided with a fireproof structure on the building skeleton side of a shutter box.**SOLUTION:** The shutter comprises a frame body 1 of framing an upper frame 10, a lower frame 11 and left-right jambs 12 and 12, the upper frame 10 comprises a shutter box 2 for supporting and freely storing by hoisting a door body 3, a refractory material 27 is arranged along a back plate member 25 fixed to a building skeleton in the shutter box 2, and the refractory material 27 is arranged in at least an edge part of the back plate member 25.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015068023 A 20150413](#)

Applicant: LIXIL CORP
Inventor: NOGUCHI HIROSHI
Prio:
Appl.No: JP2013202735
IPC: E06B 9/17 2006.01 (IA)

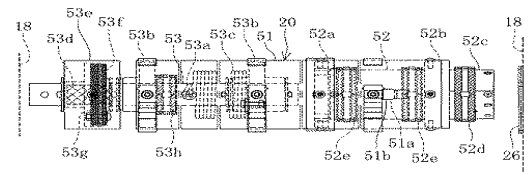


SHUTTER

PROBLEM TO BE SOLVED: To provide a shutter for suppressing firing when combustible gas flows out of a winding shaft in a shutter box in fire.**SOLUTION:** The shutter comprises a frame body 1 of framing an upper frame 10, a lower frame 11 and left-right jambs 12 and 12, and the upper frame 10 comprises a shutter box 2 for supporting and freely storing by hoisting a door body 3, and the shutter box 2 comprises a winding shaft 20 for freely winding the door body 3, and refractory materials 52d and 53g are arranged in both end parts of the winding shaft 20, and block up both end parts of the winding shaft 20 in fire.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015068024 A 20150413](#)

Applicant: LIXIL CORP
Inventor: TANAKA KENSUKE
Prio:
Appl.No: JP2013202736
IPC: E06B 9/17 2006.01 (IA)

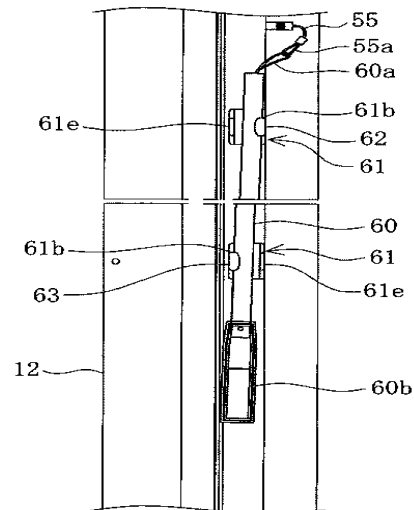


SHUTTER

PROBLEM TO BE SOLVED: To provide a shutter having a holding part capable of holding a switching operation bar, without having an elastically deforming part and a mechanismic part.**SOLUTION:** The shutter comprises a frame body 1 of framing an upper frame 10, a lower frame 11 and left-right jambs 12 and 12. The upper frame 10 comprises a shutter box 2 for supporting and freely storing by hoisting a door body 3, and the switching operation bar 60, which links with an opening-closing mechanism of the door body 3 provided in the shutter box 2, is provided outside the frame body 1, and the jambs 12 comprise an upper side holding part 62 capable of holding one side part of the switching operation bar 60 and a lower side holding part 63 capable of holding the other side part of the switching operation bar 60.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015068025 A 20150413](#)

Applicant: LIXIL CORP
Inventor: TANAKA KENSUKE
Prio:
Appl.No: JP2013202737
IPC: E06B 9/74 2006.01 (IA)

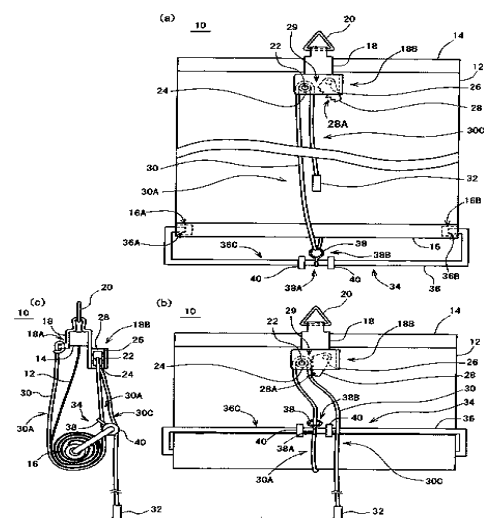


BLIND AND ATTACHMENT

PROBLEM TO BE SOLVED: To provide a blind capable of maximally preventing a suspension part in a lifting cord from slipping out of a blind body and a lower sash bar.**SOLUTION:** A roll-up type blind (a roll screen) 10 is hoisted by winding a screen body 12 on a lower sash bar 16 suspended while rotating, by shortening a suspension part 30A reaching a pulley 24 from one end part of a lifting cord 30, by pulling a lead part 30C pulled out of the pulley 24 in the lifting cord 30 hooked on a suspension member (the pulley) 24 in the other surface side via a lower part of the lower sash bar 16 from one surface side of a blind body (the screen body) 12 by installing one end part on an upper sash var 14, and is provided with regulation means 34 including a body part (a bar) 36 installed on the lower sash bar 16 so as to idly rotate to rotation of the lower sash bar 16 and an insertion part (a large ring part 38B of an insertion member 38) provided on the bar 36 and inserting the suspension part 30A in the lifting cord 30.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015068029 A 20150413](#)

Applicant: DAIKO SANGYO KK
Inventor: KODERA TOSHIO; KODERA KOJI; MURAI SAJURO
Prio:
Appl.No: JP2013202869
IPC: E06B 9/40 2006.01 (IA)

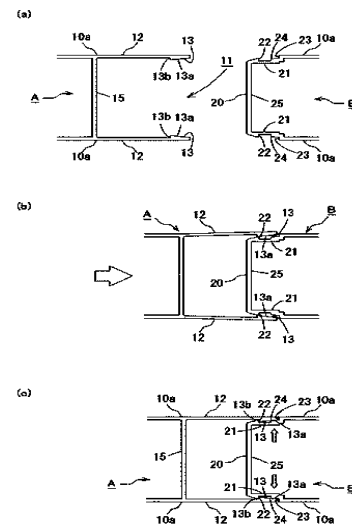


JOINING STRUCTURE OF EXTRUSION SECTION

PROBLEM TO BE SOLVED: To provide a joining structure of an extrusion section connectable so that mutual sections do not fall off, and capable of improving workability.**SOLUTION:** The joining structure comprises a first section A having an opening part 11 in an end part and a second section B having a receiving part 20 inserted into the opening part 11. The first section A comprises a pair of connection legs 12 for forming the opening part 11 and a pair of hooking parts 13 mutually oppositely formed on an inner surface of the pair of connection legs 12. The receiving part 20 of the second section B comprises a pair of side edge parts 21 engaging with the inside of the pair of connection legs 12 and a flat part 25 for connecting an end part of the side edge parts 21. The side edge parts 21 are formed with a pair of hooking receiving parts 22 for engaging with check claws 13b of the pair of hooking parts 13 and abutting parts 23 abutting on the tips of the pair of hooking parts 13.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015068040 A 20150413](#)

Applicant: RIKEN LIGHT METAL IND CO LTD
Inventor: SUGIYAMA SHUICHI; SUZUKI MITSUHIRO
Prio:
Appl.No: JP2013203185
IPC: E06B 7/04 2006.01 (IA)

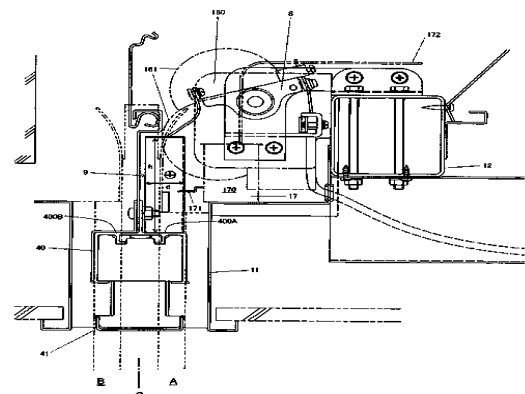


SHUTTER WITH MECHANICAL TYPE EVACUATION TIME STOPPING DEVICE

PROBLEM TO BE SOLVED: To provide a shutter with a mechanical type evacuation time stopping device, the shutter that prevents interference between a component of a shutter arrangement and a component of the mechanical type evacuation time stopping device.**SOLUTION:** A shutter arrangement includes two rollers 161 being a smoother element provided at a first side A to a shutter core C at the height position of a lower part of a take-up shaft and a guide rail upper part. A upper seat plate 40 is provided with a locking device 9 for regulating the drawing of the return wire by a lower seat plate 41 of a shutter curtain descending by its own weight hitting obstacles and moving relatively upward to the upper seat plate 40. The locking device 9 is provided at the first side A in the open width direction, and is positioned at the first side A to the shutter core C and projected upward from the upper surface of the upper seat plate 40, and takes a height position of the guide rail upper part when an opening part is fully opened. One roller 161 is provided in the position displaced in an open width direction to a portion corresponding to the width of the locking device 9 at the first side A in the open width direction.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015068044 A 20150413](#)

Applicant: SANWA SHUTTER CORP
Inventor: YOKOI NAOKI; IZUMISAWA EIJI; HIRAGAKI SHUN
Prio:
Appl.No: JP2013203397
IPC: E06B 9/84 2006.01 (IA)



LADDER LIFTING DEVICE

PROBLEM TO BE SOLVED: To provide a ladder lifting device capable of restraining a height dimension small, also stable in strength, and moreover excellent in operability. **SOLUTION:** The ladder lifting device comprises a base member arranged with a body frame arranged in a higher position by a predetermined short dimension than its upper surface on the upper surface of a vehicle body, a ladder member holding body reciprocable in the vehicle longitudinal direction to this base member and a rotation allowable mechanism for allowing rotation in the lower direction of a rear end of the ladder member holding body in a state of sliding this ladder member holding body to the rear side. The ladder member holding body becomes a ladder lowering state by displacement of the rotation allowable mechanism by imparting external force in the lower direction on the rear end side of the ladder member holding body in a state of sliding to the rear side still in a horizontal state, and the ladder member holding body returns to the horizontal state from the ladder lowering state by the displacement of the rotation allowable mechanism by imparting the external force in the upper direction on the rear end side of the ladder member holding body. COPYRIGHT: (C)2015, JPO&INPIT

Publication: [JP 2015068091 A 20150413](#)

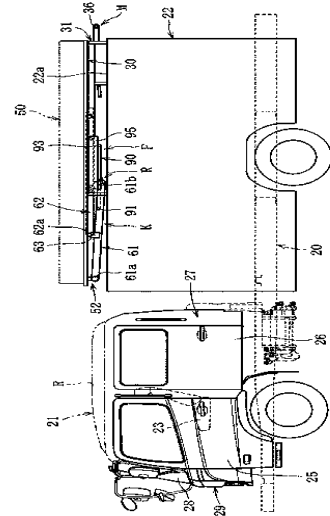
Applicant: MORITA HOLDINGS CORP

Inventor: SHIOMII SHUICHIRO

Prio:

Appl.No: JP2013204304

IPC: E06C 5/06 2006.01 (IA)



DOOR MANUFACTURING METHOD AND DOOR

PROBLEM TO BE SOLVED: To facilitate manufacturing a door having a ventilation opening part and an opening/closing panel. **SOLUTION:** A door includes: left and right door materials 21; an intermediate connection material 221 for connecting respective intermediate parts in the vertical direction of both the door materials 21; and panel units 5 arranged above and below the intermediate connection material 221 respectively and arranged between both the door materials 21. Each of the panel units 5 has: a frame body 6 in which a ventilation opening part 20 penetrating in a front-and-rear direction is formed in the center; and an opening/closing panel 3 connected to an upper and lower horizontal frame materials 60 of the frame body 6 rotatably around a vertical shaft, and rotatable between a closed position at which the ventilation opening part 20 is closed and an open position at which the ventilation opening part 20 is opened. In opposing faces of both the door materials 21, insertion groove parts 211 extending in the vertical direction are formed respectively. Each of the panel units 5 is inserted into the insertion groove part 211 to which each of left and right vertical frame materials 61 of the frame body 6 corresponds from the opposite side to the intermediate connection material 221 in the vertical direction. COPYRIGHT: (C)2015, JPO&INPIT

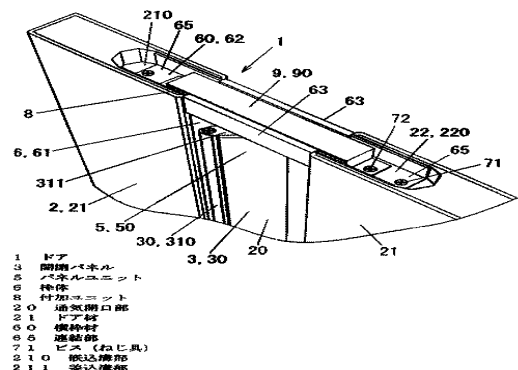
Publication: [JP 2015068119 A 20150413](#)

Applicant: PANASONIC CORP

Inventor: ISHII MASA

Prio:

Appl.No: JP2013205079



- 1 ドア
- 3 開閉パネル
- 5 パネルユニット
- 6 枠体
- 8 付加フレーム
- 20 換気開口部
- 21 ドア材
- 60 横枠材
- 61 縦枠材
- 71 ヒス (ねじ具)
- 210 嵌込溝部
- 211 嵌込溝部

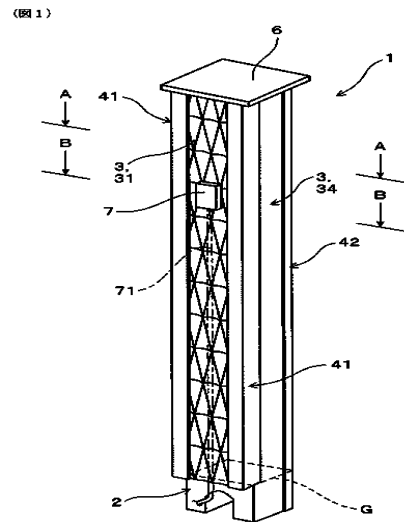
IPC: E06B 7/06 2006.01 (IA)

COLUMN FOR OUTDOOR FACILITY

PROBLEM TO BE SOLVED: To provide a column for outdoor facilities that enables a decorative panel to be replaced and facilitates change and repair of a design.SOLUTION: A column for outdoor facilities has a core material 2, and a front decorative panel 31, a rear decorative panel 32, and a side decorative panel 33 as a plurality of decorative panels which are arranged at least on a front surface 201, a rear surface 202, and a side surface 203 of the core material 2, respectively. The front decorative panel 31 arranged at least on the front surface 201 among the plurality of decorative panels 3 is fixed to the core material 2 by fixing means of fixing the front decorative panel 31 to the core material 2 detachably.COPYRIGHT: (C)2015,JPO&INPIT

Publication: **JP 2015068148 A 20150413**

Applicant: ASAHI CHUBU SHIZAI KK
Inventor: OGURI TAKESHI; SAITO KAZUNORI
Prio:
Appl.No: JP2013206175
IPC: E06B 11/02 2006.01 (IA)

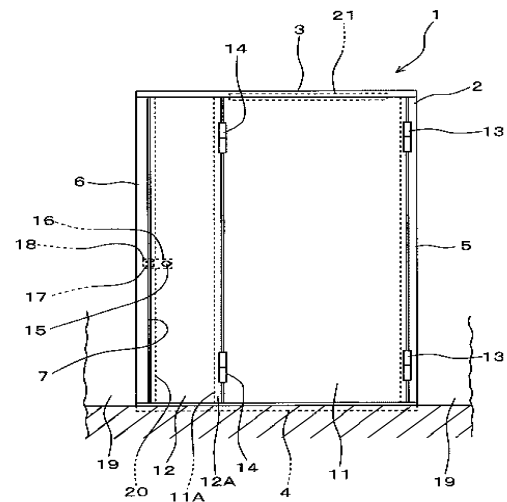


DOOR DEVICE FOR DIFFERENTIAL PRESSURE

PROBLEM TO BE SOLVED: To provide a door device for differential pressure that can have its structure simplified on the whole and also can be easily assembled.SOLUTION: A door of a door device 1 installed at a boundary place between a low-pressure area and a high-pressure area comprises a first door 11 which is freely opened from and closed to a door frame 2 around a first hinge 13 fitted to one width-direction side end part, and a second door 12 which is fitted to the other width-directional end part of the first door 11 to be freely opened and closed around a second hinge 14. The second door 12 is provided with a latch member 17 which engages with and disengages from the door frame 2 with a door knob 15 as an operation member provided on the second door 12. The latch member 17 is separated from the door frame 2 by operating the door knob 15, so that the second door 12 can rotate to be opened to the high-pressure area side around the second hinge 14.COPYRIGHT: (C)2015,JPO&INPIT

Publication: **JP 2015071862 A 20150416**

Applicant: BUNKA SHUTTER CO LTD
Inventor: ISHIKURA NORIO
Prio:
Appl.No: JP2013206900
IPC: E06B 5/16 2006.01 (IA)



DOOR DEVICE FOR DIFFERENTIAL PRESSURE

PROBLEM TO BE SOLVED: To provide a door device for differential pressure that can have its structure simplified on the whole and also can be easily assembled. **SOLUTION:** A door of a door device 1 installed at a boundary place between a low-pressure area and a high-pressure area comprises a first door 11 which is freely opened from and closed to a door frame 2 around a first hinge 13 fitted to one width-direction side end part, and a second door 12 which is fitted to the other width-directional end part of the first door 11 to be freely opened and closed around a second hinge 14. The first door 11 and second door 12 are juxtaposed in a width direction and arranged at an opening part 7 inside the door frame 2, and the second door 12 is provided with guide means 30, 40 and freely rotates on the perpendicular axis of those guide means 30, 40, which are guided by the door frame 2 to freely move in the width direction. **COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015071863 A 20150416](#)

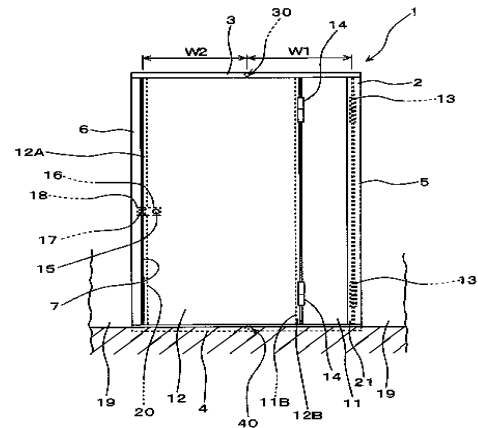
Applicant: BUNKA SHUTTER CO LTD

Inventor: ISHIKURA NORIO

Prio:

Appl.No: JP2013206901

IPC: E06B 5/16 2006.01 (IA)



WINDOW

PROBLEM TO BE SOLVED: To provide a window which has both of a movable window opened by projecting sliding doors out of a room and a fixed window such that outdoor sides of four sides of the window frame of the window are formed in the same shape. **SOLUTION:** A window frame 1 has a frame part 1-1 for a fixed window and a frame part 1-2 for a movable window formed of a head 1a, a sill 1b, and right and left window jambs 1c, and a vertical midrib 2. As the head 1a, the sill 1b, and the jambs 1c, the same frame materials are used which each have a recessed part 14 for panel body mounting formed of a frame body 12 having a recessed part formation part 10a and an outdoor side batten 13 while an in-plane directional inner end of the recessed part formation part 10a projects inward in an in-plane direction from an in-plane directional inner end of the outdoor side batten 13, and consequently a sliding door 4 can be fitted to the frame part 1-2 for a movable window without any interference with the outdoor side batten 13, so that while the outdoor side batten 13 is still fitted over the respective frame parts of the head 1a and the sill 1b, the outdoor sides of the four sides of the window frame 1 can be in the same shape. **COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015071868 A 20150416](#)

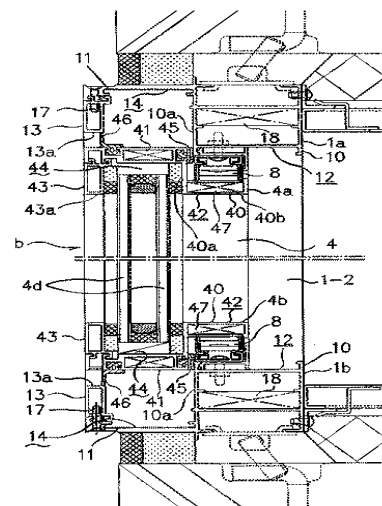
Applicant: YKK AP INC

Inventor: NARA EITATSU; MIYAMOTO KANA

Prio:

Appl.No: JP2013207051

IPC: E06B 1/36 2006.01 (IA)



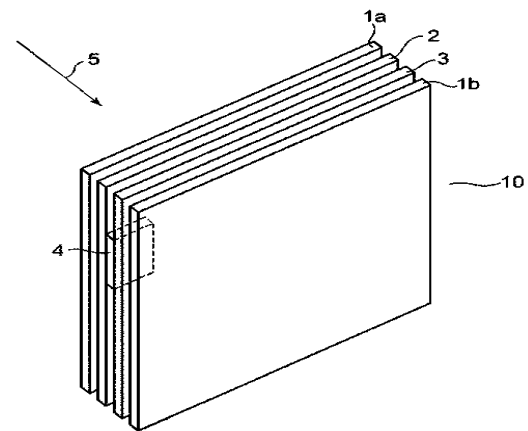
SOLAR BATTERY WITH SHADING FUNCTION AND AUTOMATIC LIGHTING CONTROL PANEL

PROBLEM TO BE SOLVED: To provide a solar battery with a shading function and an automatic lighting control panel that can block internal (indoor) light not to leak out (outdoors) in the nighttime, and take in external (outdoor) light in the daytime without using any external power source. **SOLUTION:** There is provided an automatic lighting control panel comprising: two outside structure transparent plates 1a and 1b; a transparent organic thin-film solar battery panel 2 and a liquid crystal panel 3 which are arranged while sandwiched between the outside structure transparent panels 1a and 1b; and a DC/AC converter 4 which converts DC electric power from the transparent organic thin-film solar battery panel into AC electric power so as to drive the liquid crystal panel. The solar battery panel is installed on a side where the sunlight is received, and the liquid crystal panel is placed in a shielded state without any electric power from the transparent organic thin-film solar battery panel in the nighttime, and placed in a transparent state with the electric power from the transparent organic thin-film solar battery panel in the daytime. **COPYRIGHT:** (C)2015, JPO&INPIT

Publication: [JP 2015071910 A 20150416](#)

Applicant: IDEAL STAR INC; SANTECH DISPLAY CO LTD
Inventor: OMOTE KENJI; SAIDA MORIHIKO; YOKOO KUNIYOSHI; CHIN KUNIHEI

Prio:
Appl.No: JP2013208420
IPC: E06B 9/24 2006.01 (IA)



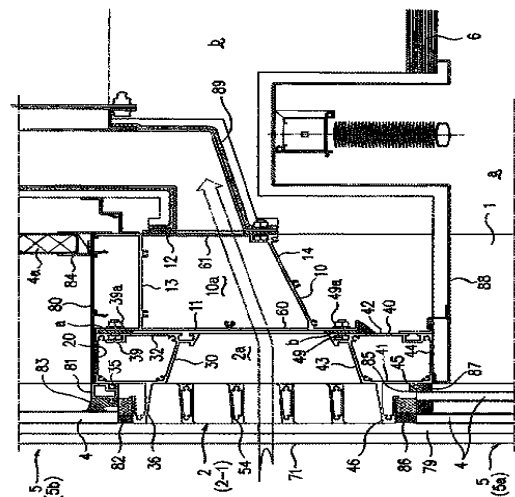
VENTILATION UNIT FOR CURTAIN WALL, AND CURTAIN WALL

PROBLEM TO BE SOLVED: To provide a ventilation unit that can selectively have a ventilation function for facilities and a natural ventilation function. **SOLUTION:** A ventilation unit includes a ventilation box 10 and a frame part 20 provided on an outdoor side plate 11 of the ventilation box 10, and vent holes 60, 61, and 62 can be formed in an outdoor side plate 11, an indoor side plate 12, and an upper plate 13 of the ventilation box 10. Then the ventilation unit can have a ventilation function for facilities by forming the vent holes 60, 61 in the outdoor side plate 11 and indoor side plate 12, and also can have a natural ventilation function by forming the vent holes 60, 62 in the indoor plate 11 and upper plate 13. **COPYRIGHT:** (C)2015, JPO&INPIT

Publication: [JP 2015071919 A 20150416](#)

Applicant: YKK AP INC
Inventor: NARA EITATSU; MIYAMOTO KANA

Prio:
Appl.No: JP2013209065
IPC: E06B 5/00 2006.01 (IA)



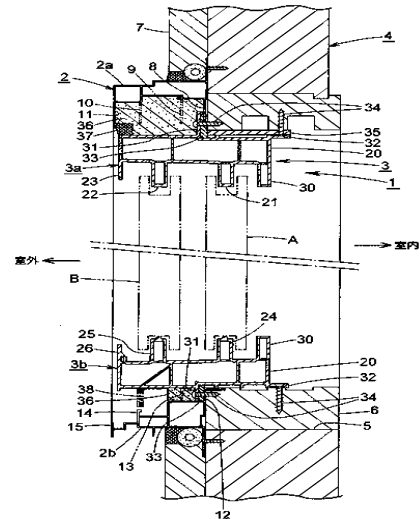
RENEWAL SASH FRAME AND RENOVATION METHOD OF EXISTING SASH FRAME

PROBLEM TO BE SOLVED: To provide a renewal sash frame capable of preventing opening area of a renewed sash frame from becoming smaller unlike a conventional method while reducing the work period and renewal cost.
SOLUTION: After cutting off guide rails 9, 10 and 13 for sashes in an existing sash frame 2, a new upper frame 3a, a new lower frame 3b of a new sash frame 3, and an attachment piece 31 protruding outward from the peripheral plane of the right and left the new vertical frames are fixed with screws 34 to the side faces at the outside of inner fixing pieces 8 and 12 of an existing sash frame 2, thereby attaching the new sash frame 3 in the frame of the existing sash frame 2.
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Publication: [JP 2015071920 A 20150416](#)

Applicant: EXCEL SHANON CORP
Inventor: FUJIKAWA MITSUYOSHI; IBA IKUYOSHI; KATO YAMATO; TANAKA TSUKASA; YAMADA TETSUYA; SAKAI ATSUSHI

Prio:
Appl.No: JP2013209099
IPC: E06B 1/56 2006.01 (IA)



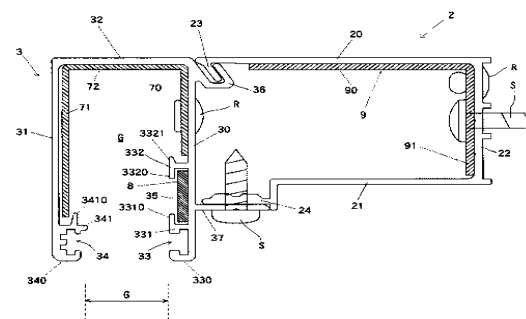
FIRE PREVENTIVE CONSTRUCTION OF GUIDE RAIL OF WINDOW SHUTTER

PROBLEM TO BE SOLVED: To provide a guide rail construction with improved fireproof performance.
SOLUTION: In an internal space formed between a first side 30 on a side closer to an outer wall and a second side 31 facing an outdoor space of a guide rail 3, a reinforcement plate formed of a material having higher melting point than a material forming the guide rail 3 is provided so as not to project to a guide space G at least at a part of an inner surface of a part facing the outdoor space including the second side 31. A portion of the reinforcement plate provided on the inner surface of the second side 31 has width dimensions so as to face a slat end accepted in the guide space G. In the internal space of the guide rail 3, a storage space extending in a height direction is located so as not to project to the guide space G, and in the storage space, a thermal expansion fireproof member 8 extending in the height direction is stored so as not to project to the guide space G under room temperature.
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Publication: [JP 2015071936 A 20150416](#)

Applicant: SANWA SHUTTER CORP
Inventor: TAKAHASHI ISAO; SHIBAZAKI MASAHIRO; ANDO HIROSHI; HATAKEYAMA YUICHI; KOBAYASHI YUZO; IZAWA HIDEMI

Prio:
Appl.No: JP2014236131
IPC: E06B 9/17 2006.01 (IA)



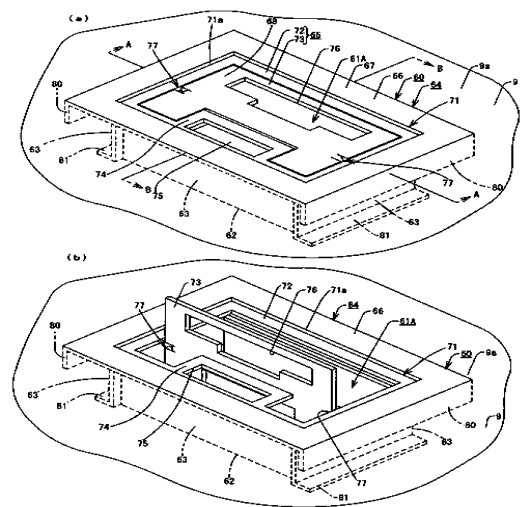
SWITCHGEAR AND CENTER PILLAR FIXING DEVICE

PROBLEM TO BE SOLVED: To provide a switchgear having a center pillar fixing device and the center pillar fixing device, being high in the deformation preventive effect of a top plate. **SOLUTION:** The switchgear comprises respective opening-closing bodies movably provided in the vertical direction and mutually adjacently provided so as to be capable of opening-closing an opening part, a center pillar arranged between the mutually adjacent opening-closing body and opening-closing body and movably supporting the side edge of the mutually adjacent respective opening-closing bodies in the vertical direction and the center pillar fixing device 60 installed on a floor 9 of the opening part for fixing the lower end of the center pillar. The center pillar fixing device 60 comprises a hollow vessel, and the center pillar fixing device 60 is installed on the floor 9 so that an upper surface 68 of a top plate 65 of the hollow vessel is positioned under a floor surface 9a, the top plate 65 of the hollow vessel comprises a through-hole 75 communicating with a hollow space 61A of the hollow vessel, and fixing means provided in a lower end part of the center pillar is inserted into a hollow space 61A by penetrating through the through-hole 75 from above the top plate 65, so that the center pillar is fixed to the floor 9. COPYRIGHT: (C)2015, JPO&INPIT

Publication: [JP 2015074878 A 20150420](#)

Applicant: BUNKA SHUTTER CO LTD
Inventor: MURAKAMI KATSUHIKO; KOBAYASHI MASANORI

Prio:
Appl.No: JP2013209649
IPC: E06B 9/58 2006.01 (IA)

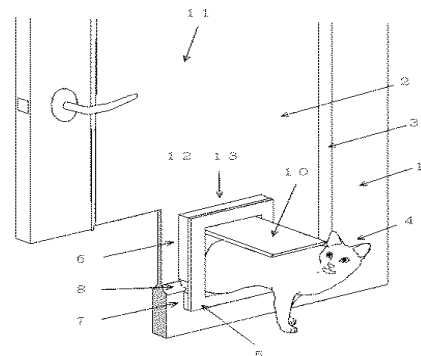


PET DOOR FOR DOOR PANEL

PROBLEM TO BE SOLVED: To provide a post-fitting pet door capable of being easily and neatly installed in a non-planar type door. **SOLUTION:** Spacers 6, 7 for filling a gap between a frame 5 and a door 11, and a molding cover 8 are prepared. The spacers 6, 7 may be an outside spacer 7 and an inside spacer 6, and the molding cover 8 may be a decorative molding cover 8. A pet door applicable to the gap between the frame 5 and the door 11 is formed by fitting the spacers 6, 7 and the molding cover 8 to the frame 5. A soft material capable of being easily shaven, such as a balsa material, is used for the decorative molding cover 8, since the decorative molding cover 8 part has complicated shape and needs to be shaven by a user. The molding cover 8 is installed on the frame 5 in a way that allows the molding cover 8 to be easily shaven along its wood grain direction. COPYRIGHT: (C)2015, JPO&INPIT

Publication: [JP 2015074880 A 20150420](#)

Applicant: MATOBA KOZO
Inventor: MATOBA KOZO
Prio:
Appl.No: JP2013209741
IPC: E06B 7/32 2006.01 (IA)



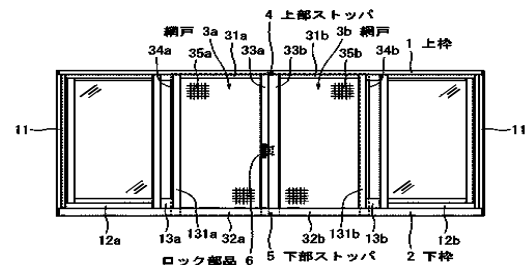
SASH

PROBLEM TO BE SOLVED: To provide a sash capable of preventing self-running by fixing a wire screen.**SOLUTION:** A sash comprises a horizontal frame, two wire screens, a stopper, and a lock component. The wire screens, which are fitted to the horizontal frame, can be freely opened/closed in a drawn manner. The stopper, which is attached to the horizontal frame, regulates movement of both the wire screens in a closing direction from a fully-closed position. The lock component connects both the wire screens together in a fully-closed state.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015074883 A 20150420](#)

Applicant: SANKYOTATEYAMA INC
Inventor: YAMAMOTO TAKESHI; ISHIHARA NORITSUGU;
 KANAMORI HIDEAKI

Prio:
Appl.No: JP2013210030
IPC: E06B 3/32 2006.01 (IA)



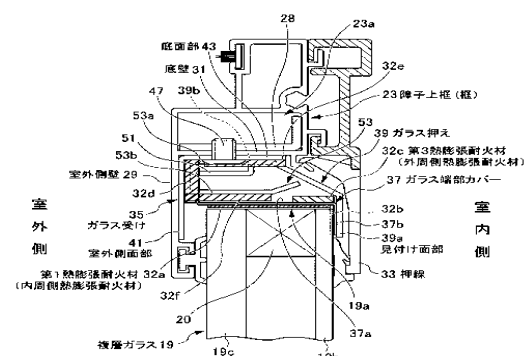
FITTING

PROBLEM TO BE SOLVED: To provide a fitting capable of preventing a flame from blowing out to the outdoors and the indoors from the periphery of double layer glass in a fire, and capable of preventing falling-off of the double layer glass.**SOLUTION:** The fitting comprises the double layer glass 19, a metallic rail 23 having an outdoor sidewall 29 and a bottom wall 31 for receiving a peripheral edge part of the double layer glass, a resin batten 33 for installing the double layer glass 19 on the rail 23 from the indoor side, a metallic glass receiver 35, a metallic glass end part cover 37 and a metallic glass presser 39, and the glass receiver 35 comprises an outdoor side surface part 41 of running along an outdoor sidewall 29 of the rail 23 and a bottom surface part 43 of running along a bottom wall 31 of the rail 23, and the glass end part cover 37 covers an end surface of the double layer glass 19, and comprises an inner peripheral side thermal expansion fire resistant material 32a on an inner peripheral side, and an outer peripheral side thermal expansion fire resistant material 32c is provided between an outer peripheral surface of the glass end part cover 37 and a bottom wall 31 of the rail 23, and the glass presser 39 comprises an aspect surface part 39a opposed to an indoor side aspect surface of the double layer glass 19, and is installed in the glass receiver 35 on the outer peripheral side of the glass end part cover 37.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015074909 A 20150420](#)

Applicant: SANKYOTATEYAMA INC
Inventor: NOTOYA HAJIME; YANAI TAKAYUKI

Prio:
Appl.No: JP2013211018
IPC: E06B 3/58 2006.01 (IA)



DAYLIGHTING SYSTEM, AND BUILDING

PROBLEM TO BE SOLVED: To provide a daylighting system efficiently performing daylighting, and effectively using light taken in by the daylighting.**SOLUTION:** The daylighting system comprises a daylighting sheet 10 arranged in an opening part of a building 1 and transmitting the light from the outdoor side to the indoor side and reflection means 25 for reflecting the light transmitted by the daylighting sheet. The daylighting sheet is formed by laminating a plurality of layers and comprises a base material layer having light transmissivity and a light reflection layer formed on the base material layer, the light reflection layer comprises a light transmission part arranged along one surface of the base material layer and transmitting the light and a light reflection part formed between the light transmission parts and reflecting the reached light, the reflection means is a sheet-like member, in which a plurality of unit reflection elements formed in a projecting fashion are arranged on the sheet surface, and at least one surface for forming the unit reflection element is a reflection surface reflecting the light emitted from the daylighting sheet downward and extending in a linear fashion.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015074922 A 20150420](#)

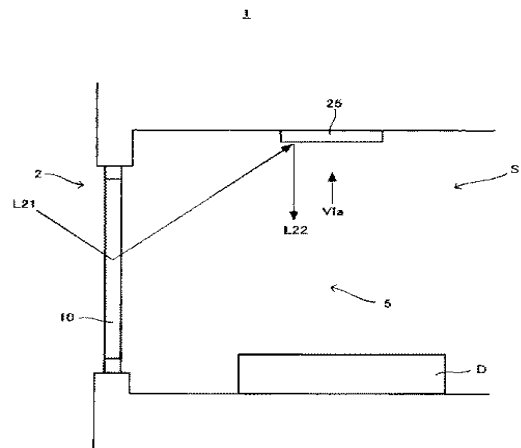
Applicant: DAINIPPON PRINTING CO LTD

Inventor: KASHIWAGI TAKESHI

Prio:

Appl.No: JP2013211861

IPC: E06B 5/00 2006.01 (IA)



STRUCTURE OF SHUTTER DEVICE AND MANUFACTURING METHOD OF WINDING SHAFT

PROBLEM TO BE SOLVED: To provide a structure of a shutter device which is not likely to cause deformation and damage of the shutter device even when components expand or contract due to the temperature difference, and a manufacturing method of a winding shaft.**SOLUTION:** Provided is a structure of a shutter device comprising a winding shaft 23, and the winding shaft 23 includes: a cylindrical winding drum 25 for the winding shaft 23, the outer periphery on which a shutter curtain is wound around; a pair of journals 27 attached on both ends of the winding drum 25 along the direction of a shaft line 51 and at least one of which is movable along the direction of the shaft line 51 with respect to the winding drum 25; journal-side key grooves 53, each of which is recessed on the outer periphery of the journal 27 along the direction of the shaft line 51; keys 55, each of which is formed shorter than the journal-side key groove 53, inserted into the journal-side key groove 53 so as to be movable along the direction thereof, and protrudes out of the outer periphery of the journal 27; and drum-side key grooves 59 formed on the winding drum 25, for regulating relative rotation of the journal 27 and the winding drum 25, when the key 55 is engaged to parts where the inner periphery of shaft holes 49 supporting the journal 27 are notched radially outward.**COPYRIGHT:** (C)2015,JPO&INPIT

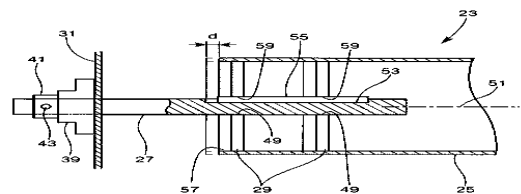
Publication: [JP 2015074943 A 20150420](#)

Applicant: BUNKA SHUTTER CO LTD

Inventor: INOUE SHINICHI; TSUTSUMI TAKAHIRO

Prio:

Appl.No: JP2013212933



IPC: E06B 9/56 2006.01 (IA)

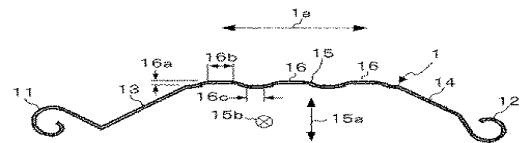
SHUTTER SLAT

PROBLEM TO BE SOLVED: To provide a shutter slat capable of preventing a central plate from being deformed or preventing a problem in joining it with another shutter slat.SOLUTION: A shutter slat 1 includes: first and second interlocking parts 11 and 12 for connecting to another shutter slat; first and second legs 13 and 14 each extending from the first and second interlocking parts 11 and 12 respectively; and a central plate 15 formed between the first leg 13 and the second leg 14. The central plate 15 includes plural ribs 16 which are formed extending along a longitudinal direction 15b of the central plate 15.COPYRIGHT: (C)2015,JPO&INPIT

Publication: [JP 2015074951 A 20150420](#)

Applicant: NISSHIN STEEL CO LTD
Inventor: HONMA NOBUYUKI; YAMAMOTO JUNICHI;
KAWASHIMA TETSUSHI

Prio:
Appl.No: JP2013213339
IPC: E06B 9/15 2006.01 (IA)



SOUND INSULATION STRUCTURE AGAINST GAP TRANSMISSION SOUND WITHIN BUILDING

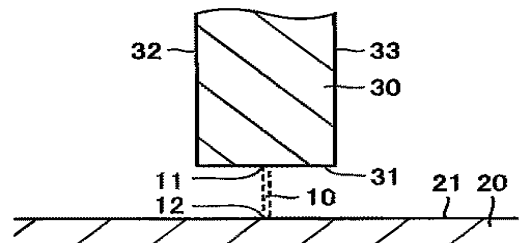
PROBLEM TO BE SOLVED: To provide a sound insulation structure against gap transmission sound within a building, which establishes compatibility between suppression of the gap transmission sound and air permeability.SOLUTION: A sound insulation structure against gap transmission sound within a building blocks out the sound transmitted from a gap between rigid body members arranged within the building. Characteristically, a porous material (10) with interconnected cells is provided in the gap. Additionally, the porous material (10) has flow resistance of 10 N s/m^3 or more.COPYRIGHT: (C)2015,JPO&INPIT

Publication: [JP 2015078494 A 20150423](#)

Applicant: DAIWA HOUSE INDUSTRY CO LTD; KANSAI UNIV

Inventor: SHIMIZU TAKASHI; KAWAI YASUTO

Prio:
Appl.No: JP2013214916
IPC: E06B 5/20 2006.01 (IA)



OPENING/CLOSING MECHANISM

PROBLEM TO BE SOLVED: To provide an opening/closing mechanism in which confirmation of the situation of the outside, or entry-exit to inside and outside can be easily implemented depending on necessity while preventing entry of water etc. by a shutter curtain.
SOLUTION: The opening/closing mechanism is an opening/closing mechanism which comprises guide rails that are provided as facing to each other at both sides of an opening part and an opening/closing body that is provided as movable in the longitudinal direction of the guide rails and opens and closes the opening part. The opening/closing body includes an upper side member which extends between the guide rails and a lower side member which is connected with the upper side member through connecting means, and the upper side member and the lower side member are constructed so as to be capable of separating from each other by releasing of the connecting means.
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Publication: [JP 2015078506 A 20150423](#)

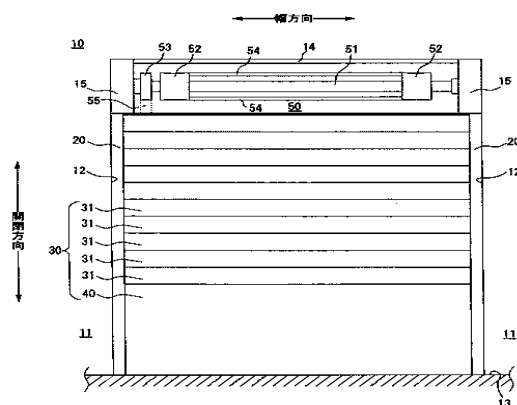
Applicant: BUNKA SHUTTER CO LTD

Inventor: TSUTSUMI TAKAHIRO

Prio:

Appl.No: JP2013215369

IPC: E06B 9/02 2006.01 (IA)



WATER CUTOFF STRUCTURE FOR BATHROOM DOORWAY

PROBLEM TO BE SOLVED: To provide a water cut-off structure for a bathroom doorway which has a small step between a bathroom and an undressing room and has high water-tightness to securely prevent water from leaking from the bathroom to the undressing room.
SOLUTION: A door 120 is fitted to a frame body 110, constituted by joining together a pair of left and right vertical frame materials 111, 113, and an upper frame material 115 and a lower frame material 117 arranged between upper end parts and lower end parts thereof, to be freely opened and closed. The vertical frame materials 111, 113 are provided with vertical frame tight materials 151, 153 whose elastic front end parts abut on the front face of the closed door 120. The lower frame material 117 has a lower frame tight material 157 whose elastic front end part abuts on the front face of the closed door, in a lower frame tight material mounting groove 177a provided on the upper surface. The vertical frame material 113 and the lower frame material 117 are jointed together with a sealer 119 interposed. A water cutoff member 180 is interposed between the lower frame tight material mounting groove and lower surfaces of the vertical frame tight materials 151, 153, and an elastic water cutoff material 185 is interposed between a side end face of the lower frame tight material 157 and side faces of the vertical frame tight materials 151, 153.
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Publication: [JP 2015078557 A 20150423](#)

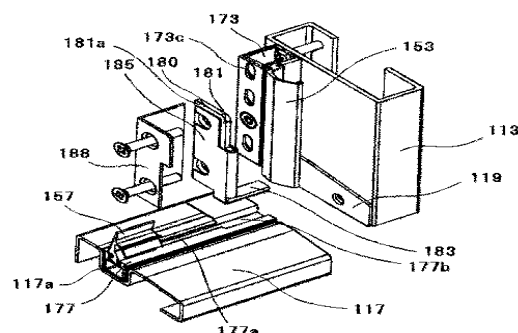
Applicant: TOTO LTD

Inventor: NISHIJIMA RYOSUKE; NANA O KENJI

Prio:

Appl.No: JP2013217061

IPC: E06B 7/22 2006.01 (IA)

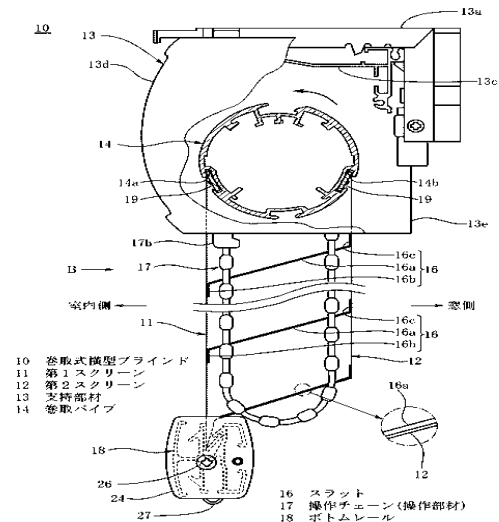


ROLL-UP HORIZONTAL BLIND

PROBLEM TO BE SOLVED: To improve window shielding performance of a plurality of slats when the slats are erected. **SOLUTION:** A winding pipe 14 is rotatably held by a support member 13. Upper ends of a pair of screens 11 and 12 having light transmissivity and flexibility are each attached on an outer peripheral surface of the winding pipe 14 at an interval in a diametrical direction of this winding pipe 14, and the plurality of slats 16 having light transmissivity and flexibility are each extended between the pair of delivered screens 11 and 12 at an interval in a vertical direction. For adjusting an angle of the slats 16 or for deliverably wind the screens 11 and 12 together with the slats 16, an operation member 17 is operated to rotate the winding pipe 14. A bottom rail 18 is attached on lower ends of the pair of screens 11 and 12 so that the center of gravity is offset to the side of the screen 11 of the pair of delivered screens 11 and 12 to be wound later on the winding pipe 14. **COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015078559 A 20150423](#)

Applicant: TOSO CO LTD
Inventor: IMAI SHIN; FURUKAWA YUJI
Prio:
Appl.No: JP2013217091
IPC: E06B 9/262 2006.01 (IA)

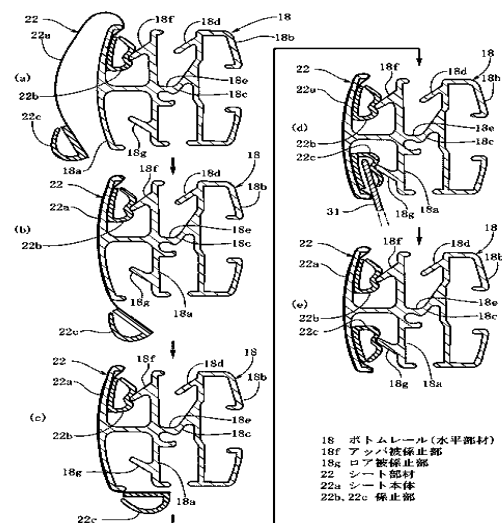


SOLAR SHADING DEVICE

PROBLEM TO BE SOLVED: To minimally restrain an increase in manufacturing cost, even if a product having a horizontal member covered with a sheet member is many varieties and a small quantity, by comparatively easily covering an exposure surface of the horizontal member with the sheet member. **SOLUTION:** A solar shading device of the present invention comprises a horizontal member 18 provided along the lower end or the upper end of a solar shading body and extending in the horizontal direction. The exposure surface of the horizontal member 18 is also covered with a sheet member 22. The sheet member 22 also comprises a sheet body 22a for covering the exposure surface of the horizontal member 18 and locking parts 22b and 22c respectively adhered to both ends in the orthogonal direction to the longitudinal direction of the sheet body 22a and respectively locking on a pair of locking object parts 18f and 18g provided inside the horizontal member 18. **COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015078560 A 20150423](#)

Applicant: TOSO CO LTD
Inventor: IMAI SHIN; FURUKAWA YUJI
Prio:
Appl.No: JP2013217092
IPC: E06B 9/266 2006.01 (IA)

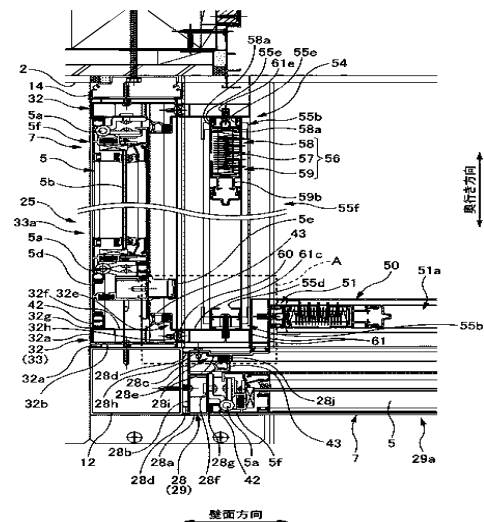


OUTDOOR STRUCTURE

PROBLEM TO BE SOLVED: To provide an outdoor structure for easily operating a sash for opening-closing, while having a net material inside an openable-closable sash possessed by the outdoor structure.**SOLUTION:** The outdoor structure comprises two window units arranged so as to be mutually adjacent and cross and two net material units respectively juxtaposed with the two window units. In both the sash possessed by the one window unit and a net material possessed by the juxtaposed one net material unit, an opening-closing operation part for opening-closing operation is arranged on a window frame-joined side in a closed state. The opening-closing operation part is moved and opened, and when opening the net material provided in one juxtaposed frame, the opening-closing operation part of the sash provided in a window frame, is exposed to the indoor side.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015078570 A 20150423](#)

Applicant: YKK AP INC
Inventor: SATO FUMITAKA
Prio:
Appl.No: JP2013217429
IPC: E06B 3/00 2006.01 (IA)

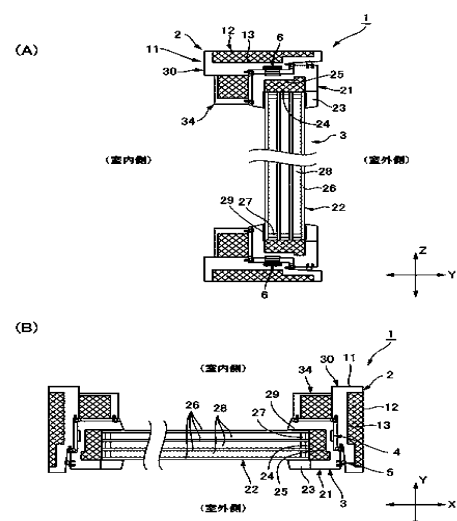


INSULATION SASH WINDOW

PROBLEM TO BE SOLVED: To achieve super insulation sash window which is made of Japanese cypress and having a heat transmission coefficient less than $0.8 \text{ W/m}^2\text{K}$.**SOLUTION:** An insulation sash window 1 comprises a window frame 2 and a shoji 3. A gap 4 between them is sealed with airtight material 5. The shoji 3 is made of a shoji frame 21 and multi-layered glass 22. The shoji frame 21 comprises a shoji frame main body 23 formed by shaving solid Japanese cypress and resin insulation material 25 engaged in a recessed part 25 formed thereon. The window frame 2 comprises a window frame main body 11 formed by shaving solid Japanese cypress and resin insulation material 24 engaged in a recessed part 13 formed thereon.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015078574 A 20150423](#)

Applicant: KAZU ARCHITECT OFFICE CO LTD; SHINSHU UNIV
Inventor: AOKI KAZUTOSHI; ASANO YOSHIHARU
Prio:
Appl.No: JP2013217788
IPC: E06B 5/00 2006.01 (IA)

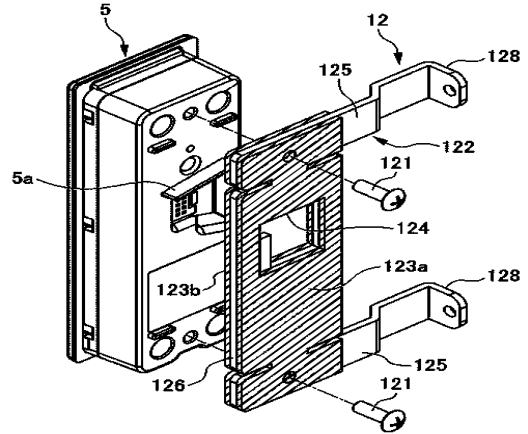


FIXTURE

PROBLEM TO BE SOLVED: To provide a fixture capable of avoiding forming an opening to communicate between the inside and outside of a house through a fitting hole in the case of a fire.
SOLUTION: A fixture fitted through an outdoor reader 5 provided in an outdoor reader fitting hole 42g formed in an outer surface material 4g of a door body 4 and reader metal fittings 12 having a plate 122 opposed to the outdoor reader fitting hole 42g is provided with a heat foaming material 123b between the reader metal fittings 12 and the outdoor reader 5.
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Publication: [JP 2015078581 A 20150423](#)

Applicant: LIXIL CORP
Inventor: MIURA TOMOYUKI; KIKUCHI SATORU
Prio:
Appl.No: JP2013217910
IPC: E06B 5/16 2006.01 (IA)

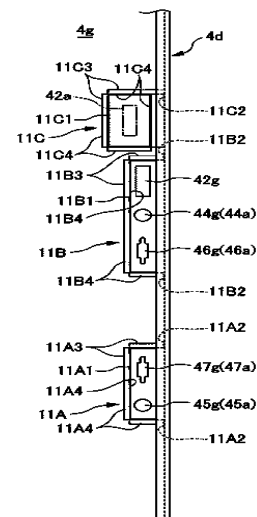


FIXTURE

PROBLEM TO BE SOLVED: To provide a fixture capable of avoiding forming an opening to communicate between the inside and outside of a house through a fitting hole in the case of a fire.
SOLUTION: A door body 4 comprises an outer surface material 4g and a door end-side core material 4d provided at least at one side of the outer surface material 4g, and is fitted inside a frame body 2 to be opened and closed. The door body 4 includes first to third surrounding core materials 11B-11C provided to section off an opening of an outdoor reader fitting hole 42g etc., provided in the door body 4, and the first to third surrounding core materials 11B-11C are provided over between the outdoor surface material 4g and an inner surface material 4a.
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Publication: [JP 2015078582 A 20150423](#)

Applicant: LIXIL CORP
Inventor: MIURA TOMOYUKI; KIKUCHI SATORU
Prio:
Appl.No: JP2013217911
IPC: E06B 5/16 2006.01 (IA)

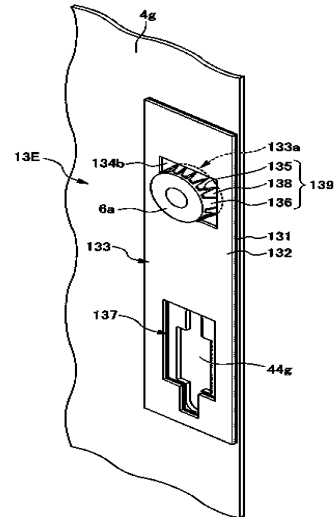


FIXTURE

PROBLEM TO BE SOLVED: To provide a fixture capable of sufficiently closing an opening for fitting a component of a face material. **SOLUTION:** A fixture 40 having a door body 4 equipped with face materials 4a, 4g and core materials 4c-4f provided at least at one-end sides of the face materials 4a, 4g includes: a first heat foaming material 131 which is opposed to an opening formed in the door body 4 and has a communication hole 133a communicating with the opening; and a second heat foaming material 138 which foams toward a peripheral edge part of the communication hole 133a. **COPYRIGHT:** (C)2015, JPO&INPIT

Publication: [JP 2015078583 A 20150423](#)

Applicant: LIXIL CORP
Inventor: SAKANO SHINOBU
Prio:
Appl.No: JP2013217912
IPC: E06B 5/16 2006.01 (IA)

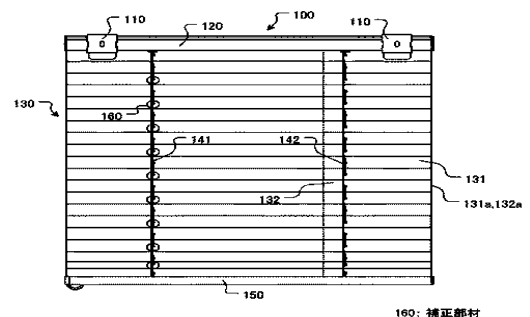


PLEAT SCREEN

PROBLEM TO BE SOLVED: To provide a pleat screen that improves the design when screens are spread, and can keep right-left balance between the folded screens and never spoils the design even when the screens are folded. **SOLUTION:** A pleat screen includes a first screen 131 which has a plurality of pleats formed vertically and a second screen 132 which has a plurality of pleats formed vertically at the same intervals with the first screen 131, and is narrower in width than the first screen 131 and provided to lap over the first screen substantially to the overall width, and a correction member 160 for correcting the folding margin when the first screen 131 and second screen 132 are folded is provided at an area where the first screen 131 and second screen 132 do not lap. **COPYRIGHT:** (C)2015, JPO&INPIT

Publication: [JP 2015081416 A 20150427](#)

Applicant: NICHIBEI CO LTD
Inventor: OTSUKA HIDEKI; TONOMURA HIDEAKI
Prio:
Appl.No: JP2013218531
IPC: E06B 9/262 2006.01 (IA)



160: 補正部材

SHEET SHUTTER DEVICE

PROBLEM TO BE SOLVED: To prevent a shutter curtain lower end part from slipping out of a guide rail, when a strong wind blows through a narrowed opening part in closing operation, in a sheet shutter device for disconnecting a shutter curtain from the guide rail, when a claw of a forklift touches. **SOLUTION:** A regulation member 12 for regulating a locking body 1b so as not to slip out by expansively opening a guide member 7, is provided in a lower area of the guide member 7 for engageably-disengageably locking the locking body 1b provided on the guide rail and provided in the shutter curtain. **COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015081421 A 20150427](#)

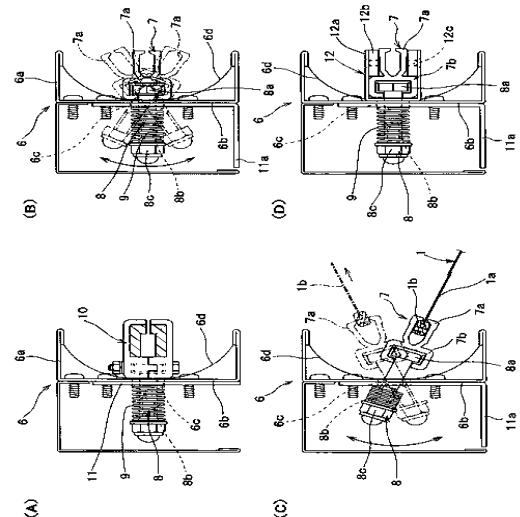
Applicant: SANWA SHUTTER CORP

Inventor: OKAWA TAKESHI

Prio:

Appl.No: JP2013218785

IPC: E06B 9/13 2006.01 (IA)



WATERPROOF DOOR STRUCTURE BODY

PROBLEM TO BE SOLVED: To provide a waterproof door structure body, causing no risk of damage, and having little influence on a use state in normal time. **SOLUTION:** The waterproof door structure body 11 is constituted of installation members 21a and 21b installed in a pair of structures 1a and 1b, a door body 31 having watertightness, first fixing means 51a-51d detachably installed in the installation members 21a and 21b and fixing in a watertight state by pressing a door body 31 to a front face of the installation members 21a and 21b and second fixing means 61a and 61b detachably installed in the installation members 21a and 21b and fixing in a watertight state by pressing the door body 31 to a floor surface 2. When constituted in this way, since only the installation members 21a and 21b are installed in the structures 1a and 1b in normal time, there is no risk of damaging the first fixing means 51a-51d and the second fixing means 61a and 61b. **COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015081442 A 20150427](#)

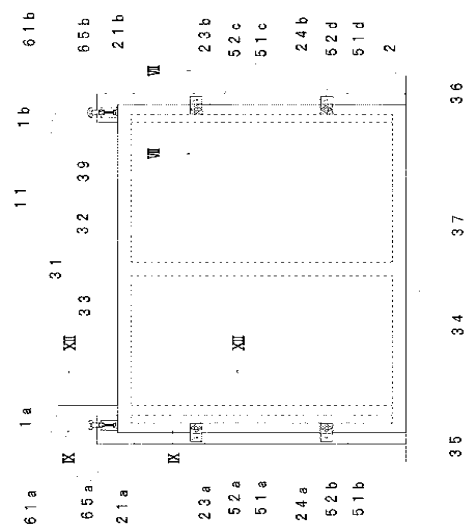
Applicant: SHIBATA IND CO LTD

Inventor: NISHIYAMA KEITARO

Prio:

Appl.No: JP2013219782

IPC: E06B 5/00 2006.01 (IA)

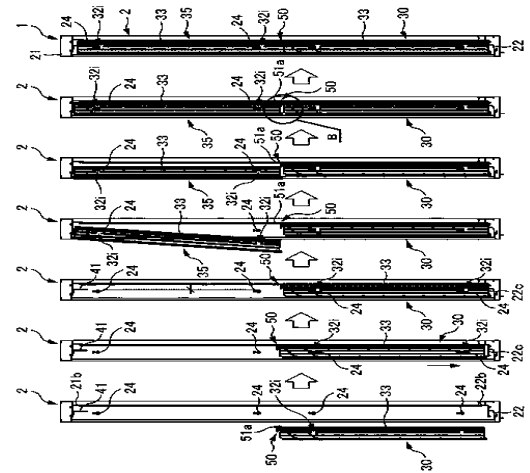


LOUVER UNIT AND LOUVER DOOR

PROBLEM TO BE SOLVED: To provide a louver unit and a louver door excellent in workability, while regulating dislocation between louvers provided in a plurality and deflection of a louver board.**SOLUTION:** A louver unit comprises a plurality of louvers having respectively a plurality of louver boards vertically installed side by side in a frame body fixed to an opening part and a louver board fixing member arranged along the vertical direction and fixing the plurality of louver boards, in which among the plurality of louvers, one louver in the vertically adjacent two louvers, comprises an end part installing member having a projection fixing part installed in an end part of the louver board fixing member and having a projection part of projecting to the other louver side in the vertically adjacent two louvers from the louver board fixing member and an opposed part connected to the projection fixing part and arranged in a position mutually opposed at an interval to the projection part in the communication direction for communicating with the opening part, and an end part of the louver board fixing member of the other louver is arranged between the projection part and the opposed part, and is installed in the frame body.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015081449 A 20150427](#)

Applicant: YKK AP INC
Inventor: HORII TAKASHI; UCHIDA MASAYA
Prio:
Appl.No: JP2013220045
IPC: E06B 7/082 2006.01 (IA)

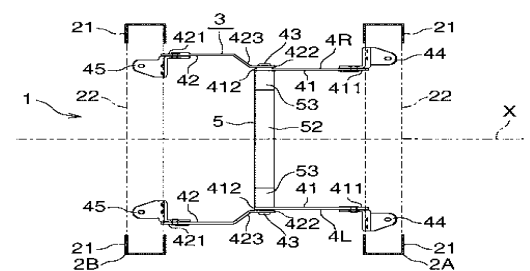


OPEN STUD OF STEPLADDER

PROBLEM TO BE SOLVED: To provide an open stud of a stepladder, hardly causing deformation and damage of a component, and providing a stable structure, without risk of nipping fingers when closing front-rear legs.**SOLUTION:** The open stud 3 comprises left-right link units 4A and 4B and a central bar 5. The respective link units comprise a front link 41 having one end part 411 rotatably installed on a front leg 2A, a rear link 42 having one end part 421 rotatably installed on a rear leg 2B and a connection pin 43 for rotatably connecting the mutual other parts 412 and 422 of the front-rear links. The central bar extends horizontally so as to connect the mutual connection pins of the left-right link units. A bending part 423 for generating a clearance S of a degree capable of preventing nipping of the fingers between the front-rear links, is formed in the vicinity of the other end part of the rear link.**COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015081454 A 20150427](#)

Applicant: HASEGAWA KOGYO CO LTD
Inventor: TSUJIMURA KENTARO
Prio:
Appl.No: JP2013220137
IPC: E06C 7/50 2006.01 (IA)



FABRIC COMPOUND MATERIAL, MANUFACTURING METHOD FOR THE SAME AND BLIND USING THE SAME

PROBLEM TO BE SOLVED: To provide: a fabric compound material which is excellent in design, light control performance and durability with a polarization function added thereto while utilizing unique appearance of fabric; a manufacturing method for the fabric compound material; and a blind which can be designed in various ways by utilizing the fabric and fulfill an excellent light control function. **SOLUTION:** A fabric compound material 1, which has appearance of fabric 2, fulfills a polarization function and is highly durable, can be manufactured in a manner that: laminates the fabric 2 made of synthetic resin and the polarizing film 3 made of the synthetic resin; joins the same by heating under pressure; and processes an adhesion section 4 with the fabric 2 and the polarizing film 3 integrated at peripheral section 1a of the fabric compound material 1 by melting and cutting the joined fabric 2 and the polarizing film 3. In a blind 10, a first and a second light controlling materials 11 and 12 made of the fabric compound material 1 are installed so as to align respective polarizing axes 11X and 12X in different directions and allow overlapping of the first and the second light controlling materials 11 and 12 to be adjusted. Thus, the blind 10 has excellent design and light control performance. COPYRIGHT: (C)2015, JPO&INPIT

Publication: [JP 2015081476 A 20150427](#)

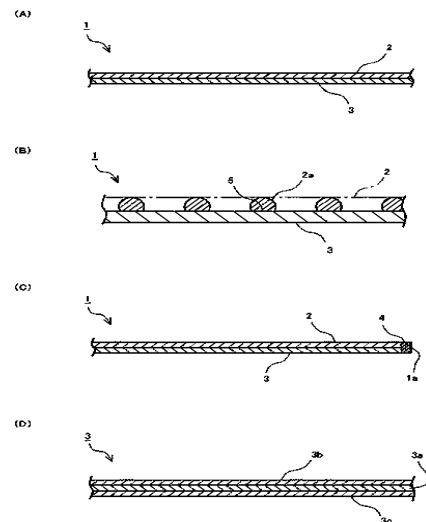
Applicant: HATSUYAMA SENKO KK

Inventor: HATSUYAMA RYOJI

Prio:

Appl.No: JP2013220658

IPC: E06B 9/24 2006.01 (IA)



UPPER/LOWER TWO-STAGE TYPE BLIND

PROBLEM TO BE SOLVED: To provide an upper/lower two-stage type blind that generates no sense of incompatibility in design in a spread state of a honeycomb screen and a pleat screen when the honeycomb screen and pleat screen are used for upper and lower shield materials of an intermediate bar. **SOLUTION:** A pleat screen 130 and a honeycomb screen 150 are characterized in that the front-rear width of pleats 131 of the pleat screen 130 is 0.4 to 0.8 times as large as the front-rear width of cells 151 of the honeycomb screen 150 when those screens are folded, and the pitch of the pleats 131 is 0.7 to 1.2 times as large as the pitch of the cells 151 when the screens are spread. COPYRIGHT: (C)2015, JPO&INPIT

Publication: [JP 2015081483 A 20150427](#)

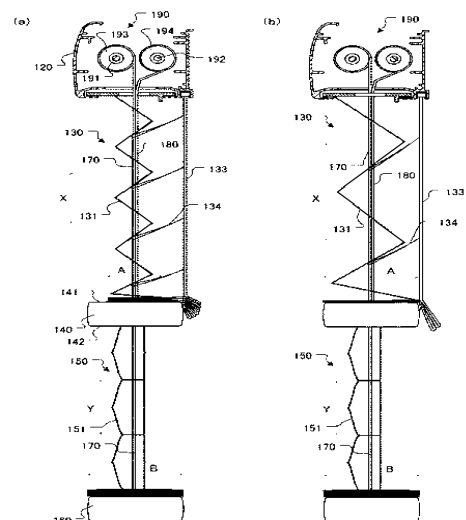
Applicant: NICHIBEI CO LTD

Inventor: SAKUMA EIJI; OTSUKA HIDEKI; UETAKA YOSHIYUKI

Prio:

Appl.No: JP2013221182

IPC: E06B 9/262 2006.01 (IA)



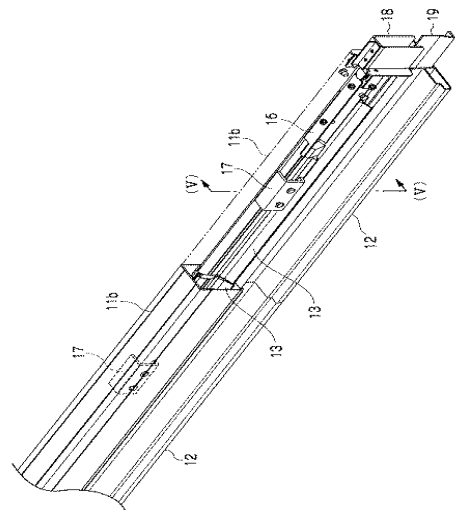
OPENING/CLOSING DEVICE

PROBLEM TO BE SOLVED: To improve body sensing precision by a movable seat plate. **SOLUTION:** There is provided an opening/closing device that includes an opening/closing object body 11 which performs a downward closing operation sliding, a movable seat plate 12 which is connected to a lower end side of the opening/closing object body 11 and can move up opposite the opening/closing object body 11, a swing part 13 which has its swing fulcrum side supported on the opening/closing object body 11 so as to have its free end side swung by being pressed by the movable seat plate 12, and a sense part 15 which senses a swing of the swing part 13, and performs predetermined control according to the sensing by the sense part 15. Here, a plurality of sense parts 15 are provided side by side in a width direction of an opening/closing object, and connected together so as to swing in one body while the free end side of the swing part 13 closest to a sense part 15 among a plurality of swing parts 13 is put closer to the sense part 15 in an opening direction of the opening/closing object than free end sides of other swing parts 13. **COPYRIGHT:** (C)2015, JPO&INPIT

Publication: [JP 2015081493 A 20150427](#)

Applicant: BUNKA SHUTTER CO LTD
Inventor: MURAKAMI KATSUHIKO; SHIGEMURA MASAKAZU

Prio:
Appl.No: JP2013221638
IPC: E06B 9/84 2006.01 (IA)



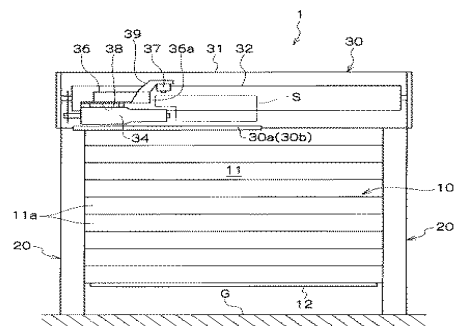
OPENING/CLOSING DEVICE

PROBLEM TO BE SOLVED: To provide an opening/closing device that has higher maintainability of a control part etc. **SOLUTION:** An opening/closing machine 34 has its driving shaft side arranged nearby one end part of a take-up body 32 and its counter-driving shaft side fixed to face the other end of the take-up body 32, and an under surface of a storage part 30 is provided with an inspection opening 30a and a closing member 30b closing the inspection opening 30a in an openable state. A control part 36 has a work surface 36a to be operated, at least having a signal line connection part for control, fixed to an upper part and a lower part of the opening/closing machine 34 to face the counter-driving shaft side. In the storage part 30, a work space S for operation on the surface 36a to be operated is secured more on the counter-driving shaft side than the surface 36a to be operated of the control part 36, and the inspection opening 30a is opened within a range including the opening/closing machine 34 and work space S. **COPYRIGHT:** (C)2015, JPO&INPIT

Publication: [JP 2015081494 A 20150427](#)

Applicant: BUNKA SHUTTER CO LTD
Inventor: SHIGEMURA MASAKAZU; SUMI KAZUHIRO

Prio:
Appl.No: JP2013221639
IPC: E06B 9/17 2006.01 (IA)

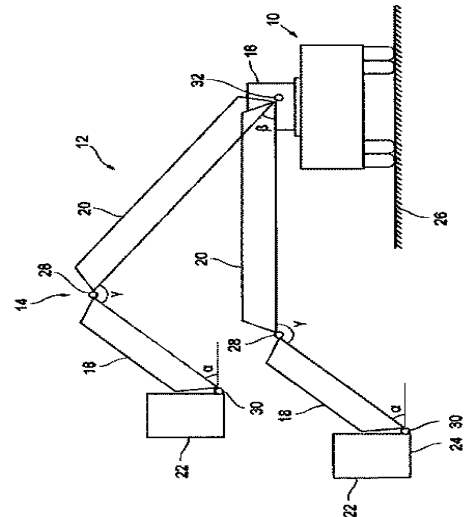


METHOD FOR CONTROLLING MULTI-ARTICULATED TURNTABLE FOLDING LADDER OF RESCUE VEHICLE

PROBLEM TO BE SOLVED: To provide a method for controlling a multi-articulated turntable folding ladder of a rescue vehicle. **SOLUTION:** A ladder 12 comprises a plurality of telescopically extendable ladder parts 14 by including a tip ladder part 18 pivotable around a horizontal first pivot axis 28 by means of first pivoting drive. The ladder further comprises a cage 22 connected to a free end of the tip ladder part 18, which makes it possible to pivot around a second pivot axis 30 by means of second pivoting drive. The ladder 12 is pivotably mounted on a base part 16 on a top surface of a vehicle 10 and to be lifted or lowered around a third pivot axis 32 by means of third pivoting drive. The method provides the step of controlling the first pivoting drive such that the absolute inclination angle α of the tip ladder part 18 is kept constant during lifting or lowering movement of the ladder 12 around the third pivot axis 32. **COPYRIGHT:** (C)2015, JPO&INPIT

Publication: [JP 2015081505 A 20150427](#)

Applicant: IVECO MAGIRUS AG
Inventor: CHRISTOPH LAUTERJUNG; JURGEN ZETTELMEIER
Prio: EP 20131024 2013 13190067
Appl.No: JP2014216861
IPC: E06C 5/04 2006.01 (IA)

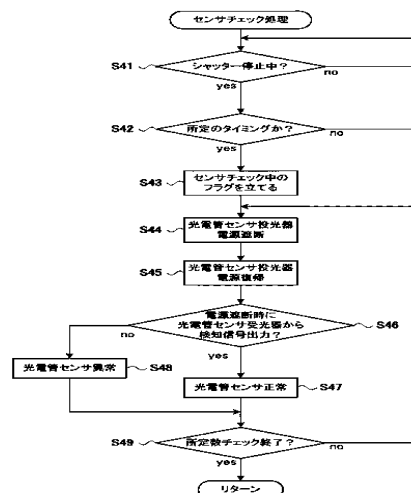


OPENING/CLOSING BODY DEVICE

PROBLEM TO BE SOLVED: To detect troubles such as optical misalignment and breakage in advance even when an obstacle sensor is constituted using a photoelectric sensor which does not have a self-checking function. **SOLUTION:** Troubles are detected in advance by checking whether a photoelectric sensor as sensing means is in normal operation by performing, for example, ON/OFF control over a light emission state of a projector of the photoelectric sensor as the sense means. The light emission state is ceased by cutting off supply of electric power to the projector of the sense means so as to create the same state with presence of an obstacle between the projector and light receiver of the photoelectric sensor, and then it is checked whether the photoelectric sensor is in normal operation by detecting whether an obstacle detection signal is output from the light receiver of the photoelectric sensor. The check on normalcy is made in a stop state of opening/closing means, namely, in a movement stop state after the opening/closing means is fully opened or fully closed, or in a state in which the opening/closing means stops halfway in opening operation or closing operation. **COPYRIGHT:** (C)2015, JPO&INPIT

Publication: [JP 2015083742 A 20150430](#)

Applicant: BUNKA SHUTTER CO LTD
Inventor: ODATE KAZUKI; ABE HIROSUKE
Prio:
Appl.No: JP2013222183
IPC: E06B 9/84 2006.01 (IA)



SOUND INSULATION STRUCTURE OF SOUNDPROOF DOOR

PROBLEM TO BE SOLVED: To provide a sound insulation structure of a soundproof door capable of eliminating inconvenience in use caused by providing a door stop. **SOLUTION:** A soundproof door 1 comprises a door frame 3 and a door panel 5. Two rubber members 7 are attached in two rows to a lower side surface 5a of the door panel 5, while two rows of recessed parts 34 are formed on a surface of the opposed door frames 3. When the door panel 5 is closed to the door frame 3, the rubber members 7 are placed on a tapered part, and move toward the rear side while being elastically deformed, and the tip ends of the rubber members 7 are fitted to the recessed parts 34 to close a clearance formed between the door panel 5 and the door frame 3. Thus, the soundproof door 1 can insulate sound so that the sound generated in a soundproof chamber does not leak to an external part. This soundproof door 1 can also eliminate a danger when a user makes a false step on the door stop since the door stop is not provided on the lower side of the door frame 3. **COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015083747 A 20150430](#)

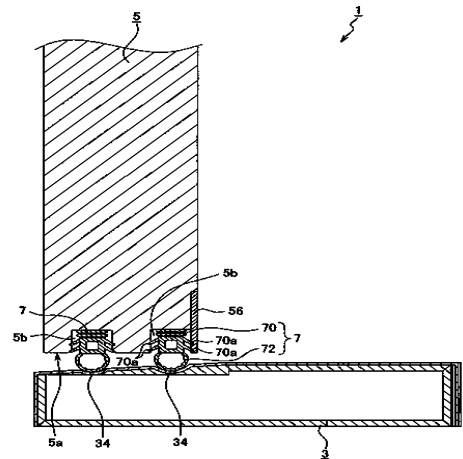
Applicant: KAWAI MUSICAL INSTR MFG CO LTD

Inventor: ITO TOYOAKI

Prio:

Appl.No: JP2013222293

IPC: E06B 5/20 2006.01 (IA)



BLIND DEVICE

PROBLEM TO BE SOLVED: To provide a blind device capable of arranging a plurality of bundled blades in a ceiling side as much as possible, and capable of getting sufficient daylight-lighting without preventing a view field from a window. **SOLUTION:** This blind device 1 includes a plurality of blades 3 arranged to shield a light from a window 2 of a building and to serve as a blindfold, and juxtaposed each other, a link mechanism 4 for connecting the plurality of blades 3 each other, a lifting-up and moving-down mechanism 5 for lifting up the plurality of blades 3 along an A-direction from the lowermost blade 3 thereof, and for moving down the plurality of blades 3 from the lowermost blade 3 thereof along a B-direction, and a tilting mechanism 6 for tilting the plurality of blades 3 along a R1-direction, while synchronized with the lifting-up and moving-down of the blades 3 along A- and B-directions, and a holding means 7 for holding the blades 3 to prevent the blades 3 from swinging in a horizontal plane. **COPYRIGHT:** (C)2015,JPO&INPIT

Publication: [JP 2015083772 A 20150430](#)

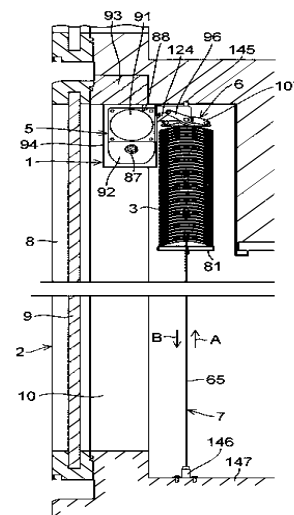
Applicant: OILES ECO CORP

Inventor: OISHI MAMORU; HIRATSUKA TETSUYA;
MATSUMOTO KOJI

Prio:

Appl.No: JP2014263584

IPC: E06B 9/302 2006.01 (IA)



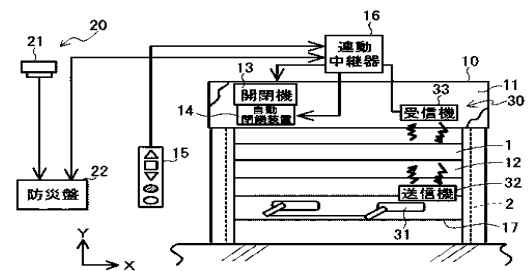
SHUTTER OBSTACLE DETECTION SYSTEM

PROBLEM TO BE SOLVED: To provide a shutter obstacle detection system capable of enhancing reliability of a harm prevention function of a shutter. **SOLUTION:** A shutter obstacle detection system 30 which detects an obstacle to a shutter curtain 12 opening and closing an opening section 1 comprises: an obstacle sensor which detects existence of the obstacle blocking closing operation of the shutter curtain 12 at the opening section 1; closing operation identification means which identifies that the closing operation of the shutter curtain 12 is started up; a transmitter 32 which has a first transmission section wirelessly transmitting an obstacle detection state signal including information indicating an obstacle detection state by the obstacle sensor; and a receiver 33 which has a second receiving section wirelessly receiving the obstacle detection state signal. The first transmission section starts transmitting the obstacle detection state signal when the closing operation identification means identifies that the closing operation of the shutter curtain 12 is started up. COPYRIGHT: (C)2015, JPO&INPIT

Publication: [JP 2015083773 A 20150430](#)

Applicant: SANWA SHUTTER CORP; HOCHIKI CORP
Inventor: IWASAKI SHINYA; ASAMI YUJI; OTSUKA HIROSHIGE; SHIMA YASUSHI; HIRANO TOMOYOSHI

Prio:
Appl.No: JP2014263867
IPC: E06B 9/84 2006.01 (IA)

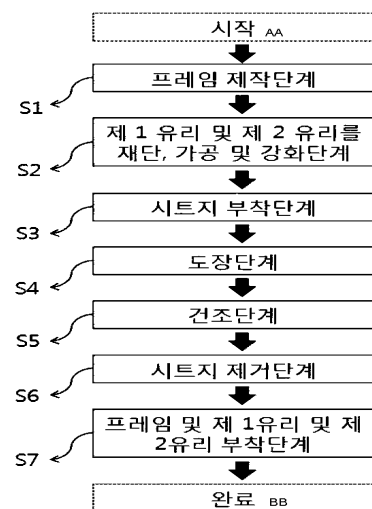


METHOD OF PRODUCING GLASS DOOR

The present invention relates to a method of producing glass door formed in pair comprising steps of: manufacturing a frame including a space part; cutting, processing and hardening a first glass and a second glass in a shape of plate; attaching a sheet to correspond to the space part on the outer sides of the first glass and the second glass; polishing the first glass and the second glass; drying the first glass and the second glass; removing a sheet between the first glass and the second glass; and attaching the frame to the first glass and the second glass.

Publication: [KR 20150033280 A 20150401](#)

Applicant: WON, JAE MIN, KR
Inventor: WON, JAE MIN, KR
Prio:
Appl.No: KR1020130113079
IPC: E06B 3/00 2006.01 (IA)



SMART SAFETY FIRE DOOR HAVING AUTOMATIC SENSING OPENING AND CLOSING FUNCTION

The present invention relates to a smart safety fire door having an automatic sensing opening and closing function. The present invention controls a transmitting and receiving portion (13) to deliver a sensed information through a communications network (20) to a smartphone (30) when receiving the sensed information about an object, which is to invade from the outside, by transmitting and receiving data with a motion sensor module (12a) formed inside a frame of the smart safety fire door (10) having an automatic sensing opening and closing function produced by bending two sheets. The present invention includes: a motion sensing-based control module (15a) which helps report a complaint to a public institute or a private security company by the smartphone (30) controlling the transmitting and receiving portion (13) to deliver a filmed video from a camera portion (10b) formed toward the front of the frame of the smart safety fire door (10) in accordance with a request from the smartphone (30).

Publication: [KR 20150034930 A 20150406](#)


Applicant: LEE, SANG GU, KR

Inventor: LEE, SANG GU, KR

Prio:

Appl.No: KR1020130114906

IPC: E06B 5/16 2006.01 (IA)

(19)  KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11) Publication number: 1020150034930 A
(43) Publication date: 06.04.2015

(54) Int. Cl. E06B 5/16 (2006.01)
E06B 5/00 (2010.01)

(21) Application number: 1020130114906 (71) Applicant: LEE, SANG GU (KR)
(22) Application date: 27.09.2013 (72) Inventor: LEE, SANG GU (KR)

(54) SMART SAFETY FIRE DOOR HAVING AUTOMATIC SENSING OPENING AND CLOSING FUNCTION

(57) Abstract:
The present invention relate to a smart safety fire door having an automatic sensing opening and closing function. The present invention includes: a transmitting and receiving portion (13) to deliver a sensed information through a communications network (20) to a smartphone (30) when receiving the sensed information about an object, which is to invade from the outside, by transmitting and receiving data with a motion sensor module (12a) formed inside a frame of the smart safety fire door (10) having an automatic sensing opening and closing function produced by bending two sheets. The present invention includes: a motion sensing-based control module (15a) which helps report a complaint to a public institute or a private security company by the smartphone (30) controlling the transmitting and receiving portion (13) to deliver a filmed video from a camera portion (10b) formed toward the front of the frame of the smart safety fire door (10) in accordance with a request from the smartphone (30).

| | |
|-----------------------|--------------------|
| 요청의 범위 (청구항) (15a) | 시계 및 열 감지 모듈 (15d) |
| 스마트폰 (30) 제어 모듈 (15b) | 통신 상태 확인 모듈 (15e) |
| 스마트폰 (30) 제어 모듈 (15c) | 블랙박스 제공 모듈 (15f) |
| 출력 부위 제어 모듈 (15g) | 자동 경고 제공 모듈 (15h) |

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- (15g) Black box providing module
- (15f) Entrance information managing module
- (15e) Automatic record transmitting module
- (15d) Product risk control module
- (15c) Smartphone-based interphone module
- (15b) Smart key control module
- (15a) Motion sensing-based control module
- (15h) Control portion
- (15h) Automatic warning providing module

BLIND

The patent application provides a blind. The blind of the patent application can form not only front transmission and blocking modes but also transmission and blocking modes which transmits and blocks light at a predetermined portion. The transmission and blocking modes can be changed while having sequential or regular period. The patent application can form not only the transmission and blocking modes but also a color mode which forms various colors with the same method. Moreover, the patent application can operate the blind with low power consumption by a design of a proper electrode or an optical modulation layer and provide a blind having an insulation function.

Publication: [KR 20150035460 A 20150406](#)

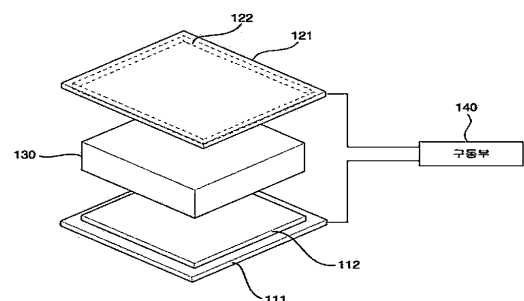
Applicant: LG CHEM. LTD., KR

Inventor: MIN, SUNG JOON, KR; KO, DONG HO, KR; KIM, JUNG WOON, KR; KIM, SANG SEOP, KR; KWON, HYUN CHEOL, KR; OH, DONG HYUN, KR; YON, JUNG SUN, KR

Prio: KR 20130927 1020130115209

Appl.No: KR1020140129936

IPC: E06B 9/24 2006.01 (IA)



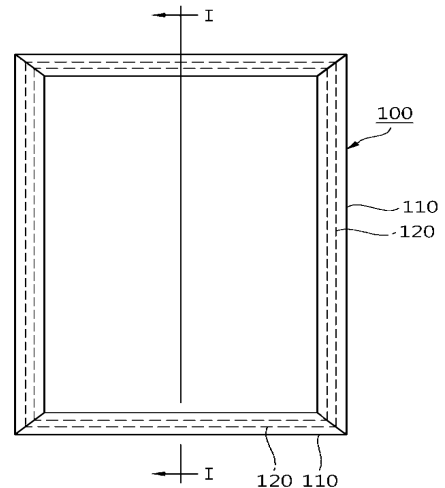
WINDOW PROFILE WITH STIFFENER

The present invention relates to a window profile with a stiffener to have a reduced weight and improved heat insulation properties by producing a profile inserted with a stiffener made of a plastic composite material instead of an existing steel stiffener. To achieve this, the present invention comprises: a body part (110) made of a thermoplastic resin material; and a stiffener (120) made of a plastic composite material to be inserted into the internal space (S) of the body part (110) in a longitudinal direction. According to the present invention, the profile integrally inserted with a stiffener made of a plastic composite material instead of an existing steel stiffener has a reduced weight and improved heat insulation properties when compared with a profile using the existing steel stiffener.

Publication: [KR 20150036874 A 20150408](#)

Applicant: LG HAUSYS, LTD., KR
Inventor: KIM, CHA NAM, KR; YOON, YOUNG BAE, KR;
 KIM, JOON WOO, KR; OH, MYOUNG SEOK, KR;
 LEE, SEUNG JUNG, KR

Prio:
Appl.No: KR1020130115843
IPC: E06B 3/20 2006.01 (IA)

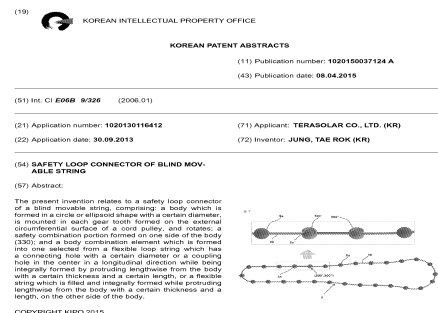


SAFETY LOOP CONNECTOR OF BLIND MOVABLE STRING

The present invention relates to a safety loop connector of a blind movable string, comprising: a body which is formed in a circle or ellipsoid shape with a certain diameter, is mounted in each gear tooth formed on the external circumferential surface of a cord pulley, and rotates; a safety combination portion formed on one side of the body (330); and a body combination element which is formed into one selected from a flexible loop string which has a connecting hole with a certain diameter or a coupling hole in the center in a longitudinal direction while being integrally formed by protruding lengthwise from the body with a certain thickness and a certain length, or a flexible string which is filled and integrally formed while protruding lengthwise from the body with a certain thickness and a length, on the other side of the body.

Publication: [KR 20150037124 A 20150408](#)

Applicant: TERASOLAR CO., LTD., KR
Inventor: JUNG, TAE ROK, KR
Prio:
Appl.No: KR1020130116412
IPC: E06B 9/326 2006.01 (IA)



DOUBLE HUNG WINDOW HAVING DOUBLE GLAZING STRUCTURE

The present invention relates to a double hung window having a double glazing structure to apply a double glazing structure to a double hung window in the indoor and outdoor sides of a window frame, thereby preventing dew condensation and having improved heat insulation performance. To achieve this, the double hung window having a double glazing structure comprises: a window frame; a first double hung window installed in the indoor side of the window frame to be opened or closed; and a second double hung window installed in the outdoor side of the window frame at a space from the first double hung window to be opened or closed. According to the present invention, the double hung window having a double glazing structure prevents dew condensation and has improved heat insulation performance by applying a double glazing structure to the indoor and outdoor sides of a window frame. In addition to this, the double hung window having a double glazing structure can control the flow of air intake through a space between the first and second double hung windows in accordance with the solar radiation change and outdoor air conditions as the first and second double hung windows are separated from each other at a predetermined space to form a double glazing structure.

Publication: [KR 20150038763 A 20150409](#)

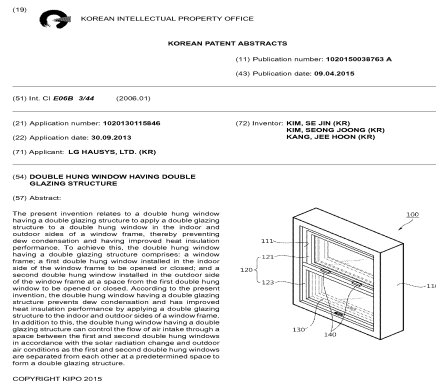
Applicant: LG HAUSYS, LTD., KR

Inventor: KIM, SE JIN, KR; KIM, SEONG JOONG, KR;
KANG, JEE HOON, KR

Prio:

Appl.No: KR1020130115846

IPC: E06B 3/44 2006.01 (IA)



SYSTEM AND METHOD FOR CONTROLLING AIR FLOW FOR REVOLVING DOOR

The present invention relates to a system and method for controlling air flow revolving door. A system for controlling air flow revolving door comprises a first intake part provided in the upper portion of the first progress area in the rotating space of the revolving door; a first air discharge pipe in which a path is set to discharge the air inhaled by the first intake part to the designated area by the first intake part; a second intake part provided in the upper portion of the second progress area corresponding to the first progress side on the basis of the rotation axis of the revolving door; and a second air discharge pipe in which a path is set to discharge the air inhaled by the second intake part to the designated area by the second intake part.

Publication: [KR 20150040049 A 20150414](#)

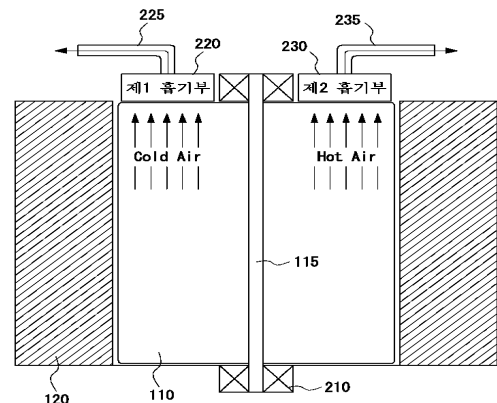
Applicant: SAMSUNG HEAVY IND. CO., LTD., KR

Inventor: NOH, JAE SEUNG, KR

Prio:

Appl.No: KR1020130118576

IPC: E06B 11/08 2006.01 (IA)



WINDOW WITH CONDENSATION PREVENTION FUNCTION

The present invention relates to a window with a condensation prevention function and, more specifically, to a window with a condensation prevention function, which has an insulation member with a heating part to be installed inside a stick installed on the circumference of the transparent plate of a window to prevent condensation on the surface of the transparent plate, caused by the drastic temperature difference between the inside and the outside, thereby effectively reducing a rapid temperature change on the surface of the transparent plate and preventing condensation. In other words, the present invention relates to a window with a condensation prevention function comprises: the transparent plate made of a transparent thin plate; the stick formed on the circumference of the transparent plate; and the heating part buried in the stick.

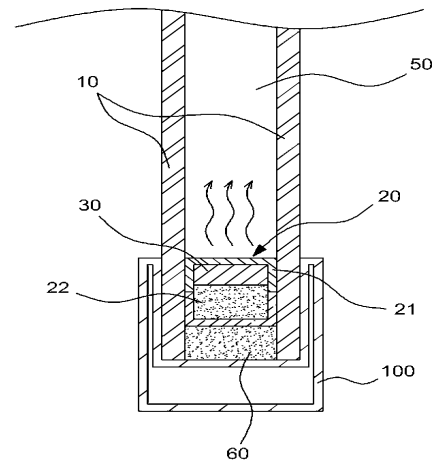
Publication: [KR 20150040077 A 20150414](#)

Applicant: HAENGSUNG CHEMICALS CO., LTD., KR
Inventor: SEOK, YOUNG JIN, KR; PARK, KYUNG UEA, KR

Prio:

Appl.No: KR1020130118641

IPC: E06B 7/12 2006.01 (IA)



WOODEN FIREPROOF DOOR MADE OF CARBONIZED BOARD

The present invention relates to a wooden fireproof door made of a carbonized board. The wooden fireproof door has the functions such as to remove formaldehyde from the front side and the rear side of the frame when designing the door of evacuation facility installed in the residential space (apartment building and the like), to shield the electronic wave and to modulate the humidity, and the like, combines the carbonized board with the function of flame retardant with the fireproof board having non-combustibility and has the fire safety and the functionality at the same time as non-flammable fiber is charged and composed for the inner layer. The wooden fireproof door made of carbonized board according to the present invention comprises a frame made of wooden materials to cross the border and the space between the borders, and charged with non-flammable materials in the space made between the borders; a board with the carbonized board to be attached to both sides of the frame; and a non-flammable fiber to be inserted individually between the above board and the frame. As above, the present invention is characterized to be mainly used for the door inside the room for the evacuation facility of the residential space.

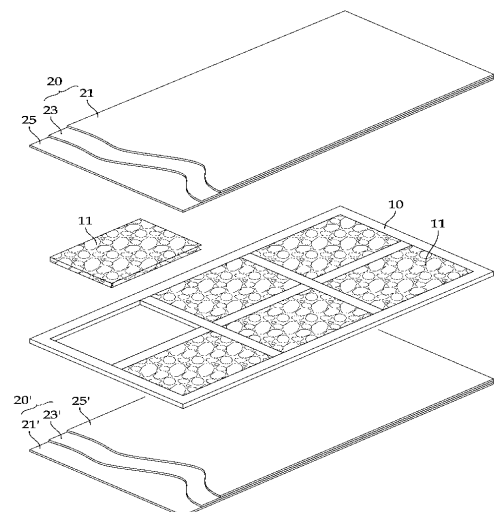
Publication: [KR 20150040548 A 20150415](#)

Applicant: KOREA FOREST RESEARCH INSTITUTE, KR
Inventor: PARK, SANG BUM, KR; SON, DONG WON, KR;
KIM, JONG IN, KR

Prio:

Appl.No: KR1020130119195

IPC: E06B 5/16 2006.01 (IA)

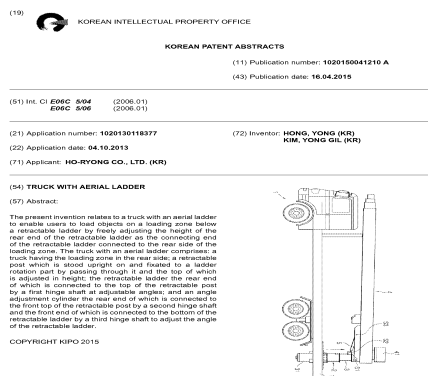


TRUCK WITH AERIAL LADDER

The present invention relates to a truck with an aerial ladder to enable users to load objects on a loading zone below a retractable ladder by freely adjusting the height of the rear end of the retractable ladder as the connecting end of the retractable ladder connected to the rear side of the loading zone. The truck with an aerial ladder comprises: a truck having the loading zone in the rear side; a retractable post which is stood upright on and fixed to a ladder rotation part by passing through it and the top of which is adjusted in height; the retractable ladder the rear end of which is connected to the top of the retractable post by a first hinge shaft at adjustable angles; and an angle adjustment cylinder the rear end of which is connected to the front top of the retractable post by a second hinge shaft and the front end of which is connected to the bottom of the retractable ladder by a third hinge shaft to adjust the angle of the retractable ladder.

Publication: [KR 20150041210 A 20150416](#)

Applicant: HO-RYONG CO., LTD., KR
Inventor: HONG, YONG, KR; KIM, YONG GIL, KR
Prio:
Appl.No: KR1020130118377
IPC: E06C 5/04 2006.01 (IA)

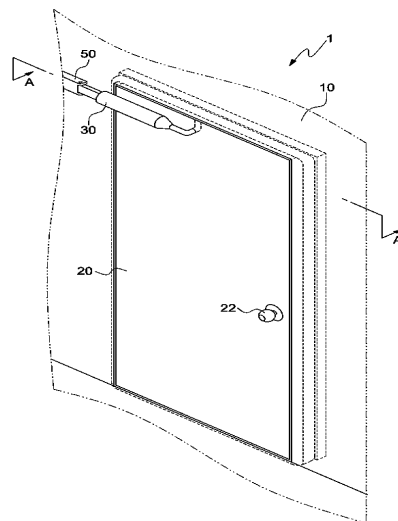


ENCLOSED DOOR

The present invention relates to an enclosed door in order to completely air-tighten a gap between a door frame and a door panel. The enclosed door comprises: a door panel coupled to a door frame to be opened and closed; an elastic sealing member interposed between the door panel and the door frame, and filled therein with a working fluid; and a control cylinder unit for the working fluid to be injected or discharged from the elastic sealing member in connection with the elastic sealing member. The control cylinder unit absorbs the working fluid from the elastic sealing member by being extended when the door panel is opened, and discharges the working fluid to the elastic sealing member by being contracted when the door panel is closed as one end thereof is connected to the door frame and the other end thereof is connected to the door panel.

Publication: [KR 20150042101 A 20150420](#)

Applicant: SAMSUNG HEAVY IND. CO., LTD., KR
Inventor: PARK, NO JUN, KR
Prio:
Appl.No: KR1020130120881
IPC: E06B 7/16 2006.01 (IA)



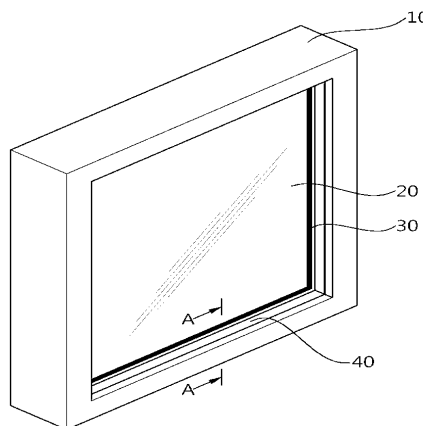
ANTI-CONDENSATION WINDOWS

The present invention relates to anti-condensation windows and, more specifically, to anti-condensation windows to prevent moisture condensation by heating an edge of glass mounted on a frame, preventing contamination of the windows by preventing mold from being generated around the window and packing or silicon sealing a gap between the glass and the frame. The anti-condensation windows of the present invention comprises: a frame; glass mounted on an opening portion of the frame; a fixing rim fixing the glass to the frame; and a heating line heating the rim of the glass. When the glass is mounted on the frame, the heating line is spaced from an inner side of the fixing rim at a consistent distance to be mounted on the rim of the glass in parallel with the fixing rim.

Publication: [KR 20150042420 A 20150421](#)

Applicant: LG HAUSYS, LTD., KR
Inventor: LEE, SEUNG JUNG, KR; YOON, YOUNG BAE, KR;
 KIM, JOON WOO, KR; OH, MYOUNG SEOK, KR;
 KIM, CHA NAM, KR

Prio:
Appl.No: KR1020130121023
IPC: E06B 7/12 2006.01 (IA)

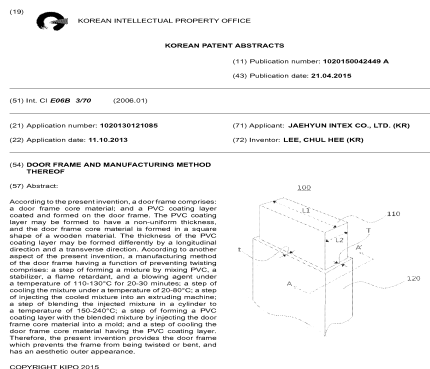


DOOR FRAME AND MANUFACTURING METHOD THEREOF

According to the present invention, a door frame comprises: a door frame core material; and a PVC coating layer coated and formed on the door frame. The PVC coating layer may be formed to have a non-uniform thickness, and the door frame core material is formed in a square shape of a wooden material. The thickness of the PVC coating layer may be formed differently by a longitudinal direction and a transverse direction. According to another aspect of the present invention, a manufacturing method of the door frame having a function of preventing twisting comprises: a step of forming a mixture by mixing PVC, a stabilizer, a flame retardant, and a blowing agent under a temperature of 110-130°C for 20-30 minutes; a step of cooling the mixture under a temperature of 20-80°C; a step of injecting the cooled mixture into an extruding machine; a step of blending the injected mixture in a cylinder to a temperature of 150-240°C; a step of forming a PVC coating layer with the blended mixture by injecting the door frame core material into a mold; and a step of cooling the door frame core material having the PVC coating layer. Therefore, the present invention provides the door frame which prevents the frame from being twisted or bent, and has an aesthetic outer appearance.

Publication: [KR 20150042449 A 20150421](#)

Applicant: JAEHYUN INTEX CO., LTD., KR
Inventor: LEE, CHUL HEE, KR
Prio:
Appl.No: KR1020130121085
IPC: E06B 3/70 2006.01 (IA)



RETICULATE NET AND WINDOW SCREEN USING THE SAME

The present invention provides a reticulate net and a windows screen using the same, which is comprised of: a wire that forms a wire net; and a water-resistant layer that is coated on the surface of the wire. The water-resistant layer includes a silane-based compound comprising a carbon fluorine (CF) or carbon hydrogen (CH) group and a phosphate-based compound comprising a carbon fluorine (CF) or carbon hydrogen (CH) group.

Publication: [KR 20150042752 A 20150421](#)

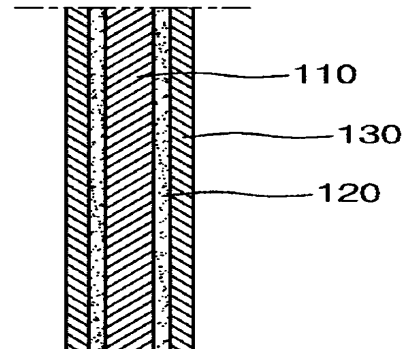
Applicant: KYONGGI UNIVERSITY INDUSTRY & ACADEMIA
COOPERATION FOUNDATION, KR

Inventor: JU, SANG HYUN, KR

Prio:

Appl.No: KR1020150004889

IPC: E06B 9/52 2006.01 (IA)



APPARATUS FOR IMPROVING SOUNDPROOFING OF DOUBLE WINDOW

An apparatus for improving soundproofing of a double window is disclosed. The apparatus for improving soundproofing of a double window comprises: a window portion including a first window and a second window which is arranged and spaced from the first window; a frame portion fixing an edge of the window portion; and a buffer unit interposed in the separation space. The buffer unit is formed a hollow closed shape, wherein a side in contact with the first window and the second window has a hollow area and a band area surrounding the hollow area.

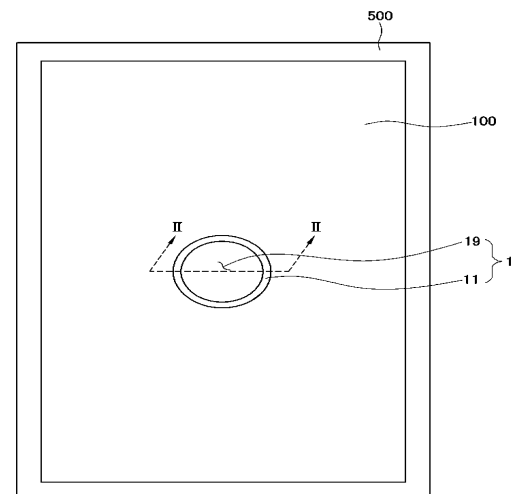
Publication: [KR 20150042934 A 20150422](#)

Applicant: KOREA AIRPORTS CORPORATION, KR
Inventor: RYU, JONG SUK, KR; CHO, SEUNG SANG, KR;
HAN, JU YEON, KR

Prio:

Appl.No: KR1020130121738

IPC: E06B 5/20 2006.01 (IA)



WINDOW SYSTEM FOR EXTENDED BALCONY

The present invention provides a window system for an extended balcony which has a casement window for the ventilation to be configured to open to an inner side on the bottom of a sliding window facing a handrail of a balcony, capable of preventing the trespass from the outside by the handrail of the balcony even if the casement window is open for the ventilation. The window system for an extended balcony prevents rainwater from being introduced indoors by a blocking device even if it rains while the casement window is open for the ventilation. The casement window can be opened only in a locked state of the sliding window. When the casement window is open, the sliding window can not be opened. Thus, the window system for an extended balcony solves a problem with using the sliding window while the casement window is open.

Publication: [KR 20150042955 A 20150422](#)

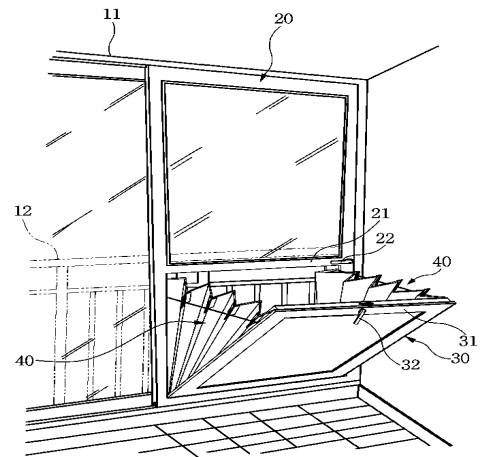
Applicant: PARK, NO MYEONG, KR

Inventor: PARK, NO MYEONG, KR

Prio:

Appl.No: KR1020130121795

IPC: E06B 7/04 2006.01 (IA)



ASSEMBLING STRUCTURE OF KOREAN TRADITIONAL WOOD WINDOWS AND DOORS

The present invention relates to an assembling structure of Korean traditional wood windows and doors, which improves a sealing structure and an assembling structure of wood windows and doors to improve assembly, airtightness, and thermal insulation thereof. The assembling structure of Korean traditional wood windows and doors comprises: a rectangular wood door frame manufactured with a wood frame; a wood window frame assembled in the wood door frame, wherein a pair glass is fixedly installed; a wood bar assembly mounted in front of the pair glass of the wood window frame, wherein a magnetic material is attached to upper and lower sides and left and right sides, and having a trellis pattern of a Korean traditional house type; a magnet holder installed in a groove of the window frame for a magnetic material of the wood bar assembly to be mounted; a two step type stair protrusion formed in a door frame for the wood door frame to be assembled; and a double sealing means installed in a front and rear vertical portion of the two step type stair protrusion.

Publication: [KR 20150042966 A 20150422](#)

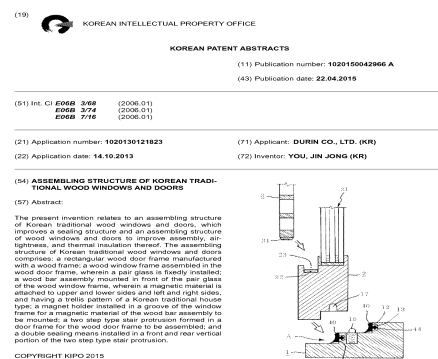
Applicant: DURIN CO., LTD., KR

Inventor: YOU, JIN JONG, KR

Prio:

Appl.No: KR1020130121823

IPC: E06B 3/68 2006.01 (IA)



METHOD FOR MANUFACTURING A DOOR FRAME

A method for manufacturing a door frame capable of preventing twisting comprises: a step of forming a composite of PVC, a stabilizer, a flame retardant agent, and a forming agent churned for 20 to 30 minutes at 110 to 130 deg. C; a step of cooling the composite at 20 to 80 deg. C; a step of injecting the cooled composite into an extruding machine; a step of fusing the injected composite in a cylinder at 150 to 240 deg. C; a step of inserting a door frame core into a mold and forming a PVC coating layer using the fused composite; and a step of cooling the door frame core on which the PVC coating layer is formed. Accordingly, the method prevents twisting or bending of a frame and provides a door frame having an elegant appearance.

Publication: [KR 20150044011 A 20150423](#)

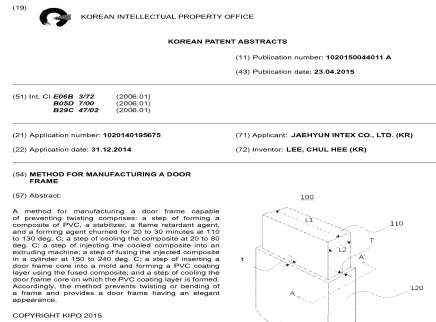
Applicant: JAEHYUN INTEX CO., LTD., KR

Inventor: LEE, CHUL HEE, KR

Prio:

Appl.No: KR1020140195675

IPC: E06B 3/72 2006.01 (IA)



DOOR FRAME

A door frame according to the present invention comprises a door frame core and a PVC coating layer formed on the door frame. The PVC coating layer can be formed with a variable thickness; the door frame core is made of a wooden material and has a rectangular shape; and the PVC coating layer thickness can be different in longitudinal and transverse directions. A method for manufacturing a door frame capable of preventing twisting according to another aspect of the present invention comprises: a step of forming a composite of PVC, a stabilizer, a flame retardant agent, and a forming agent churned for 20 to 30 minutes at 110 to 130 deg. C; a step of cooling the composite at 20 to 80 deg. C; a step of injecting the cooled composite into an extruding machine; a step of fusing the injected composite in a cylinder at 150 to 240 deg. C; a step of inserting a door frame core into a mold and forming a PVC coating layer using the fused composite; and a step of cooling the door frame core on which the PVC coating layer is formed. Accordingly, the method prevents twisting or bending of a frame and provides a door frame having an elegant appearance.

Publication: [KR 20150044012 A 20150423](#)

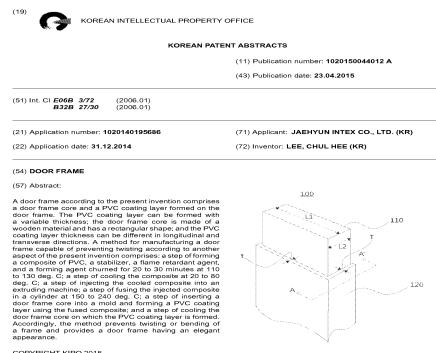
Applicant: JAEHYUN INTEX CO., LTD., KR

Inventor: LEE, CHUL HEE, KR

Prio:

Appl.No: KR1020140195686

IPC: E06B 3/72 2006.01 (IA)



SECESSION PREVENT DEVICE FOR WINDOW

This invention relates to a window separation preventing apparatus in a simple and handy structure, which is installed inside a top frame of a window with ease to keep the window in place. According to one aspect of the invention, the window separation preventing apparatus is inserted into inside of a chamber of a certain size formed by a reinforcing shim, which forms the internal structure of the vertical frame of the window and moves as guided to the rail of the window frame. The said window separation preventing apparatus comprises a rail guide unit to insert the rail of the window frame and install mohair on both sides of the rail; an insertion/removal button situated on the outer wall of the reinforcing shim; and a front guider formed and extended from the front side of the rail guide unit downward. The said front guider has elongated hole through which a connection hole passes to adhere and connect to the vertical front side of the reinforcing shim.

Publication: [KR 20150045172 A 20150428](#)

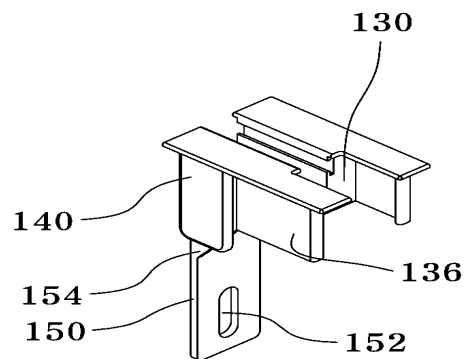
Applicant: AN SAN CONSTRUCTION INDUSTRY CO., LTD.,
KR; LEE, SEON JOONG, KR

Inventor: LEE, SEON JOONG, KR

Prio:

Appl.No: KR1020130124527

IPC: E06B 3/46 2006.01 (IA)



DRIVING APPARATUS IN A LOUVER SYSTEM

The present invention is configured so that an assembly work of a louver system is made greatly easy by simply installing a fixing louver in which a louver driving means is buried, and even if the louver system is installed in a corner of a machine room or in a high place beyond people's depth, a replacing job of the louver driving means is made easy, and, further, the louver driving means are installed on the inside of the fixing louver, by which only the louver driving means can be simply replaced while leaving the louver system as it is, even if the louver driving means is broken. Specifically, while an electronic circuit part operated by electricity from the inside of the fixing louver is included, a driving motor part which is forwardly and reversely rotated according to a signal of the electronic circuit part is installed in the fixing louver, and a drive shaft of the driving motor part is connected to a rotating cap for controlling a vertical and reciprocal movement of a load bar.

Publication: [KR 20150045702 A 20150429](#)

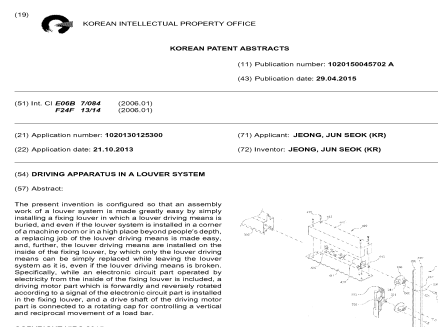
Applicant: JEONG, JUN SEOK, KR

Inventor: JEONG, JUN SEOK, KR

Prio:

Appl.No: KR1020130125300

IPC: E06B 7/084 2006.01 (IA)



WINDOWS AND DOORS WITH HIGH INSULATION FOR EASY SEPARATION AND MANUFACTURING METHOD THEREOF

The present invention relates to window and door that include a window frame installed in a wall and a window provided in the window frame. The window frame is configured to include: an outer surface body, wherein fastening grooves and intersecting projections are formed on the inner side, rails are formed on an upper side, and inward projecting insertion grooves are formed on the upper sides of the rails; an inner surface body in which fastening grooves and intersecting projections are formed on the outer side, rails are formed on an upper side, and outward projecting insertion grooves are formed on the upper sides of the rails; an upper connection body that is provided between the outer surface body and the inner surface body and is fitted and inserted into the fastening grooves and the insertion grooves; and a lower connection body that is provided between the outer surface body and the inner surface body and below the upper connection body, is inserted and fitted into the insertion grooves, and is formed with intersecting projections which mutually intersect with the intersecting projections. The intersecting projections are coupled with a selected one of piece or rivet coupling.

Publication: [KR 101507484 B1 20150407](#)

Applicant: BALGEONCHANG CONST CO., LTD., KR;
KYUNWON ALUMINIUM CO., LTD., KR

Inventor: YANG, DONG CHEOL, KR

Prio:

Appl.No: KR1020140089855

IPC: E06B 3/263 2006.01 (IA)

(19) KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11) Registration number: 101507484 B1
(45) Issue date: 07.04.2015
(24) Registration date: 25.03.2015

(51) Int. Cl. E06B 3/263 (2006.01)
E06B 3/00 (2006.01)

(21) Application number: 1020140089855 (72) Inventor: YANG, DONG CHEOL (KR)

(22) Application date: 16.07.2014 (56) Pub. No. KR 102090000917 A
KR 202015001919 U
KR 1020100027586 A
JP 2008127583 A

(73) Proprietor: BALGEONCHANG CONST CO., LTD. (KR)
KYUNWON ALUMINIUM CO., LTD. (KR)

(54) WINDOWS AND DOORS WITH HIGH INSULATION FOR EASY SEPARATION AND MANUFACTURING METHOD THEREOF

(57) Abstract:
The present invention relates to window and door that include a window frame installed in a wall and a window provided in the window frame. The window frame is configured to include: an outer surface body, wherein fastening grooves and intersecting projections are formed on the inner side, rails are formed on an upper side, and inward projecting insertion grooves are formed on the upper sides of the rails; an inner surface body in which fastening grooves and intersecting projections are formed on the outer side, rails are formed on an upper side, and outward projecting insertion grooves are formed on the upper sides of the rails; an upper connection body that is provided between the outer surface body and the inner surface body and is fitted and inserted into the fastening grooves and the insertion grooves; and a lower connection body that is provided between the outer surface body and the inner surface body and below the upper connection body, is inserted and fitted into the insertion grooves, and is formed with intersecting projections which mutually intersect with the intersecting projections. The intersecting projections are coupled with a selected one of piece or rivet coupling.

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SLIM TYPE WINDOW HAVING COMPLEX HEAT INSULATION AND AIRTIGHT STRUCTURE

This invention relates to a slim-style window with excellent insulation properties. The present invention is to provide the slim-type window which is especially useful when builders have difficulty installing double-pane windows due to narrow window sills by providing windows with single panes and double panes in different combinations so that the windows can have insulation properties as efficient as those of triple-pane or double-pane windows. The invention consists of the following units: synthetic-resin window frames with detachable indoor support frames on the inner surfaces of upper, lower, left and right frames forming the edge; a synthetic-resin horizontal sliding single-pane window unit that is installed outside the window frame so that the synthetic-resin double-pane windows can be put into a first window frame and a second window frame, respectively, to be easily slid through rollers; and a side draft cover that plays the role of a buffer when contacting with the left or right frame while blocking side air flow by forming the draft cover on both upper and lower parts of the horizontal sliding single-pane window and rails at each end of the first window frame and the second window frame forming the horizontal sliding single-pane window unit.

Publication: [KR 101507989 B1 20150407](#)

Applicant: PNS THEZONE P.V.C WINDOW & DOOR CO., LTD., KR

Inventor: NAM, IN SEUK, KR

Prio:

Appl.No: KR1020140164391

(19) KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11) Registration number: 101507989 B1
(45) Issue date: 07.04.2015
(24) Registration date: 26.03.2015

(51) Int. Cl. E06B 2251 (2006.01)
E06B 2257 (2006.01)
E06B 2776 (2006.01)

(21) Application number: 1020140164391 (72) Inventor: NAM, IN SEUK (KR)

(22) Application date: 24.11.2014 (56) Pub. No. KR 102090000917 A
KR 202015001919 U
KR 1020100027586 A
JP 2008127583 A

(73) Proprietor: PNS THEZONE P.V.C WINDOW & DOOR CO., LTD. (KR)

(54) SLIM TYPE WINDOW HAVING COMPLEX HEAT INSULATION AND AIRTIGHT STRUCTURE

(57) Abstract:
The present invention relates to a slim-style window with excellent insulation properties. The present invention is to provide the slim-type window which is especially useful when builders have difficulty installing double-pane windows due to narrow window sills by providing windows with single panes and double panes in different combinations so that the windows can have insulation properties as efficient as those of triple-pane or double-pane windows. The invention consists of the following units: synthetic-resin window frames with detachable indoor support frames on the inner surfaces of upper, lower, left and right frames forming the edge; a synthetic-resin horizontal sliding single-pane window unit that is installed outside the window frame so that the synthetic-resin double-pane windows can be put into a first window frame and a second window frame, respectively, to be easily slid through rollers; and a side draft cover that plays the role of a buffer when contacting with the left or right frame while blocking side air flow by forming the draft cover on both upper and lower parts of the horizontal sliding single-pane window and rails at each end of the first window frame and the second window frame forming the horizontal sliding single-pane window unit.

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IPC: E06B 3/263 2006.01 (IA)

HIDDEN RAIL TYPE SLIDING WINDOW HAVING ENHANCED AIRTIGHT PROPERTY

The present invention relates to a hidden rail type sliding window having an enhanced airtight property and, more specifically, relates to a hidden rail type sliding window having an enhanced airtight property having matching frame parts with a gap between them sealed by packing an airtight property enhancement, and a rail to slide a window open/closed which is hidden from the outside.

Publication: **KR 101508484 B1 20150414**

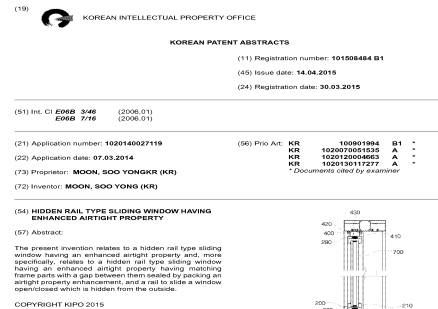
Applicant: MOON, SOO YONG, KR

Inventor: MOON, SOO YONG, KR

Prio:

Appl.No: KR1020140027119

IPC: E06B 3/46 2006.01 (IA)



METHOD TO CONSTRUCT WINDOW SASH ON OUTSIDE INSULATION WALL OF STRUCTURE

The present invention relates to a window frame construction method of an outside insulation wall which comprises: (S1) step of installing a mold for an outside insulation wall to build an insulation plate, and an internal mold (100) space to form a hole unit for a window frame to the outer insulating wall integrated with a construction of a plate material (117); (S2) step of placing concrete between the internal mold and the insulation plate material; (S3) step of dissolving the internal mold after the placed concrete has been cured; and (S4) step of installing a window frame in the hole unit for the window which is formed after the plate material (117). During step (S4) of installing the window frame after a set insulation plate material (115) removable around a hole unit for window on a mold installation step; (S5) a step of removing insulation plate material part around the hole unit and securing a work space, installing a window frame (130) on a bracket fixated on the concrete wall on a hole unit on the wall, and re-installing and fixating the insulation plate material (115) which was removed earlier around the hole unit for the window frame to secure the work space after installation of the window frame. The insulation material can be used for an outside mold or fixated inside of the outside mold. Therefore, thermal bridge on the window frame can be prevented and work space for installing the window frame after completing the outside insulation wall can be secured to install the window frames easily.

Publication: **KR 101508960 B1 20150408**

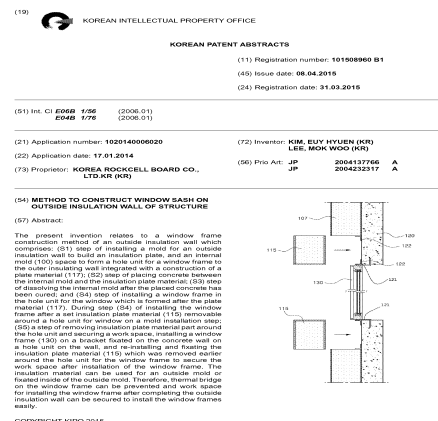
Applicant: KOREA ROCKCELL BOARD CO., LTD., KR

Inventor: KIM, EUY HYUEN, KR; LEE, MOK WOO, KR

Prio:

Appl.No: KR1020140006020

IPC: E06B 1/56 2006.01 (IA)



DRIVING APPARATUS OF LOUVER SYSTEM

The present invention relates to a driving apparatus of a louver system enabling opening and closing of a manual louver system easily, and minimizing costs of installing an electric louver system after removing the manual louver system due to a hassle of opening and closing. The present invention comprises: a driving element where a case is installed on the front surface of an upper portion or a lower portion of a frame, and where a shaft gear with a predetermined length is installed in a driving motor portion; and a handle driving element making the rotation of a handle shaft smooth while one side of the case is raised if the height of the handle shaft is changed.

Publication: [KR 101510253 B1 20150409](#)


Applicant: JEONG, JUN SEOK, KR

Inventor: JEONG, JUN SEOK, KR

Prio:

Appl.No: KR1020130125299

IPC: E06B 7/04 2006.01 (IA)

(19)  KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

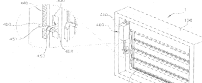
(11) Registration number: 101510253 B1
(45) Issue date: 09.04.2015
(24) Registration date: 02.04.2015

(51) Int. Cl. **E06B 7/04** (2006.01)
E06B 7/06B (2006.01)

(21) Application number: 1020130125299 (56) Pub. No. **2015248371 A** *
(22) Application date: 21.10.2013 **KR 1020130125299 A** *
(73) Proprietor: **JEONG, JUN SEOK(KR)** **KR 1020130125299 A** *
(72) Inventor: **JEONG, JUN SEOK (KR)** *
* Documents cited by examiner

(54) **DRIVING APPARATUS OF LOUVER SYSTEM**

(57) Abstract:
The present invention relates to a driving apparatus of a louver system enabling opening and closing of a manual louver system easily, and minimizing costs of installing an electric louver system after removing the manual louver system due to a hassle of opening and closing. The present invention comprises: a driving element where a case is installed on the front surface of an upper portion or a lower portion of a frame, and where a shaft gear with a predetermined length is installed in a driving motor portion; and a handle driving element making the rotation of a handle shaft smooth while one side of the case is raised if the height of the handle shaft is changed.



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WINDBREAK WITH EXCELLENT AIR TIGHTNESS AND FOR EASY CONSTRUCTION OF WINDOW, WINDOW EQUIPPED WITH WINDBREAK, AND WINDOW SYSTEM CONTAINING SAME

The invention relates to an eco-friendly windbreak with excellent air tightness and for easy construction of a window, a window equipped with a windbreak, and a window system containing the same. In details, the windbreak includes a supporting area installed on one side of window which is overlapped when the window is shut; and a weather strip which is combined to the supporting area to be turned or slid up and down and closes the gap between the inner peripheral surface of the window frame and the upper or lower of the window. The invention can provide air tightness, sound insulation, heat insulation, window separation prevention regardless of flatness of the upper and lower frames; has no possibility of making scuffs on the frame when used; can be directly coupled to the window to be detachably installed without an additional installation work in a construction site unlike an existing technology; and does not contain heavy metals such as lead and cadmium but is eco-friendly.

Publication: [KR 101510594 B1 20150408](#)


Applicant: HANYANG CHANGHO, KR

Inventor: CHOI, MYEONG HO, KR

Prio:

Appl.No: KR1020140055238

IPC: E06B 7/16 2006.01 (IA)

(19)  KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

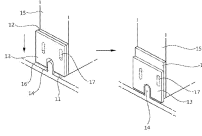
(11) Registration number: 101510594 B1
(45) Issue date: 08.04.2015
(24) Registration date: 02.04.2015

(51) Int. Cl. **E06B 7/16** (2006.01)

(21) Application number: 1020140055238 (56) Pub. No. **102009011755 A** *
(22) Application date: 09.05.2014 **KR 101505279 B1** *
(73) Proprietor: **HANYANG CHANGHO(KR)** **KR 101505279 B1** *
(72) Inventor: **CHOI, MYEONG HO (KR)** *
* Documents cited by examiner

(54) **WINDBREAK WITH EXCELLENT AIR TIGHTNESS AND FOR EASY CONSTRUCTION OF WINDOW, WINDOW EQUIPPED WITH WINDBREAK, AND WINDOW SYSTEM CONTAINING SAME**

(57) Abstract:
The invention relates to an eco-friendly windbreak with excellent air tightness and for easy construction of a window, a window equipped with a windbreak, and a window system containing the same. In details, the windbreak includes a supporting area installed on one side of window which is overlapped when the window is shut; and a weather strip which is combined to the supporting area to be turned or slid up and down and closes the gap between the inner peripheral surface of the window frame and the upper or lower of the window. The invention can provide air tightness, sound insulation, heat insulation, window separation prevention regardless of flatness of the upper and lower frames; has no possibility of making scuffs on the frame when used; can be directly coupled to the window to be detachably installed without an additional installation work in a construction site unlike an existing technology; and does not contain heavy metals such as lead and cadmium but is eco-friendly.



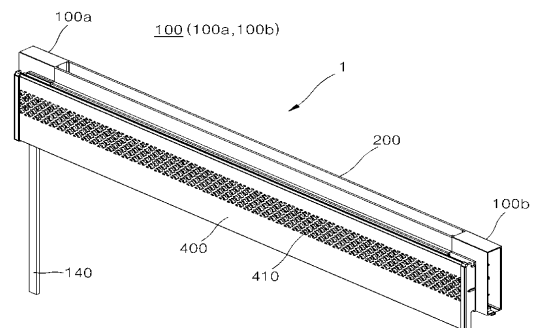
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NATURAL VENTILATION APPARATUS FOR WINDOW

The present invention relates to a natural ventilation apparatus for a window which can ventilate without opening a window, and can adjust the amount of introduced or discharged air. Comprised are a frame where a ventilation hole is formed, a flap opening and closing the ventilation hole, and an end cap disposed on at least one end of the frame. The end cap includes a body coupled to the frame; an operation path formed inside the body, having an arcuate shape which is convex toward an upper part, and opened to a front surface and lateral surfaces of the body respectively; a cover coupled to the front surface of the body, and wherein a guide groove is formed; an operating lever interposed between the body and the cover, and installed to be movable along the operation path and the guide groove; and an operating pin formed at one end of the operating lever, and protruding to the outside through the lateral surface of the body. The operating lever is composed of an elastic piece moving along the operation path and the guide groove, and a moving piece formed at one end of the elastic piece, and moving along the guide groove. A fixing groove is formed on an inner wall of the guide groove, and a fixing protrusion is formed on a lateral surface of the moving piece. The fixing groove is spaced in a longitudinal direction of the guide groove, and has the operating lever fixed in a specific location.

Publication: [KR 101511143 B1 20150414](#)

Applicant: WINDMILL, KR
Inventor: HUR, JONG MAN, KR
Prio:
Appl.No: KR1020140004027
IPC: E06B 7/084 2006.01 (IA)

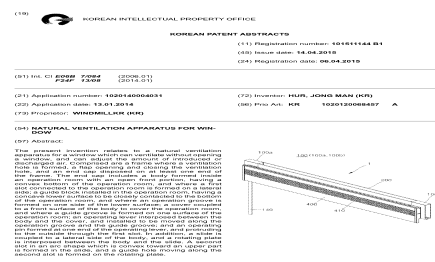


NATURAL VENTILATION APPARATUS FOR WINDOW

The present invention relates to a natural ventilation apparatus for a window which can ventilate without opening a window, and can adjust the amount of introduced or discharged air. Comprised are a frame where a ventilation hole is formed, a flap opening and closing the ventilation hole, and an end cap disposed on at least one end of the frame. The end cap includes a body formed inside an operation room with an open front portion, having a convex bottom of the operation room, and where a first slot connected to the operation room is formed on a lateral side; a guide block installed in the operation room, having a concave lower surface to be closely contacted to the bottom of the operation room, and where an operation groove is formed on one side of the lower surface; a cover coupled to a front surface of the body to cover the operation room, and where a guide groove is formed on one surface of the operation room; an operating lever interposed between the body and the cover, and installed to be moved along the operation groove and the guide groove; and an operating pin formed at one end of the operating lever, and protruding to the outside through the first slot. In addition, a slide is coupled to a lateral side of the body, and a rotating plate is interposed between the body and the slide. A second slot in an arc shape which is convex toward an upper part is formed in the slide, and a guide hole moving along the second slot is formed on the rotating plate.

Publication: [KR 101511144 B1 20150414](#)

Applicant: WINDMILL, KR
Inventor: HUR, JONG MAN, KR
Prio:
Appl.No: KR1020140004031



IPC: E06B 7/084 2006.01 (IA)

DEVICE FOR SHUTTING AND ROLLING DOMESTIC FIRE PROTECTING SCREEN SHUTTER

A device for shutting and rolling a domestic fire protecting screen shutter is provided to seal a space between a place of installation and a curtain unit by an emergency blocking unit, to prevent flames and smoke of a high-rise building from spreading, and to minimize casualties and property damage, by comprising: a driving unit (20) mounted at the top of a place of installation (10) that is selectively opened according to a signal of a fire sensor (26); a curtain unit (30) accommodated in the driving unit (20) that seals the place of installation (10) by falling by the weight of a balance maintaining unit (40) or seals the place of installation (10) by falling following an elevating guiding unit (60) by the weight of the balance maintaining unit (40); and an emergency blocking unit (50) mounted on both sides of the curtain unit (30) that is unfolded through the elasticity of an unfolding apparatus (55) and blocks a space (70) between the place of installation (10) and the curtain unit (30).

Publication: **KR 101511607 B1 20150413**

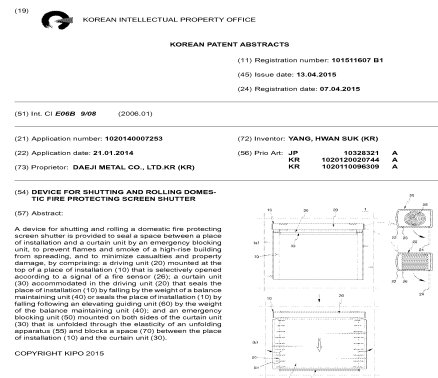
Applicant: DAEJI METAL CO., LTD., KR

Inventor: YANG, HWAN SUK, KR

Prio:

Appl.No: KR1020140007253

IPC: E06B 9/08 2006.01 (IA)



EVACUATION LADDER

The present invention relates to an evacuation ladder used in the event of fire or an emergency in a high-rise building and, more specifically, to an evacuation ladder which is installed on a moving path connected to the lower floor through the floor of a building in order for a foothold to be unfolded downwards by gravity to provide an evacuation route when a lever is released in the event of an emergency and to be restored to the original state by being pulled by a wire when the emergency is cleared so that the foothold can be reused.

Publication: **KR 101511680 B1 20150417**

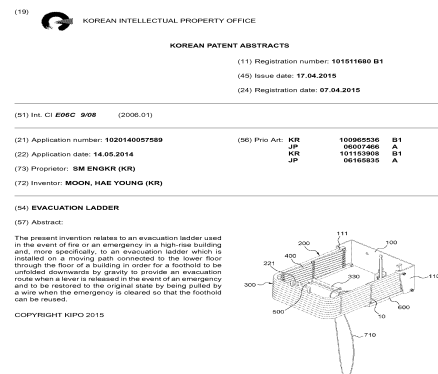
Applicant: SM ENG, KR

Inventor: MOON, HAE YOUNG, KR

Prio:

Appl.No: KR1020140057589

IPC: E06C 9/08 2006.01 (IA)



TOP-DOWN ESCAPE LADDER FINISHED BY TILES

The present invention relates to a top-down escape ladder finished by tiles, which improves the durability of a tile installation part and which prevents accidents including an accident caused when a worker cuts his/her fingers during the closing of an upper cover. According to the present invention, the top-down escape ladder finished by tiles includes: the upper cover which has a wider space than an evacuation unit body and has the tile installation part having a finishing tile part on the top; and a cover border part bent from the border of the upper cover, having a predetermined width and the same height as the finishing tile part seated on the tile installation part. The cover border part is bent upwards from the end of the upper cover to be bent inwards in a horizontal direction to make the side of the cover border part around a handle and the bottom surface of both sides of the cover border part be on the same plane as the bottom surface of the upper cover. Therefore, the present invention prevents accidents including an accident caused when a worker cuts his/her fingers due to the closing of the cover while working as the border of a tile seating part is bent inwards to be on the same plane as the bottom surface of the upper cover.

Publication: [KR 101511688 B1 20150413](#)

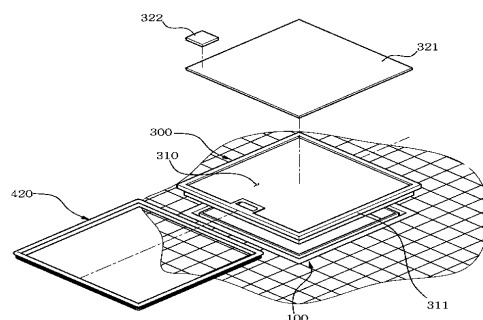
Applicant: PEOPLE & SAFETY CO., LTD., KR; KIM, CHANG KYEONG, KR

Inventor: KIM, CHANG KYEONG, KR

Prio:

Appl.No: KR1020140116066

IPC: E06C 9/06 2006.01 (IA)



THE DOOR THAT CAN PREVENT FROM FIRE SPREADING

The invention relates to a door that can prevent fire from spreading. The door includes: a front panel which comprises a first non-flammable panel made of unburned materials, a second non-flammable panel made of woven or non-woven or paper materials of an inorganic fiber, and a wood panel hot pressure plated with a chip board having good ability of heat cut to be laminated between the first non-flammable panel and the second one; a back panel which comprises a third non-flammable panel, a fourth non-flammable panel and a wood panel, with each having the same structure as the front panel, and has a doorframe and a drain member to be sequentially laminated; a doorframe which is laminated between the front and the back panel, of which a vertical frame is fixed on the centers of multiple horizontal frames, the horizontal frame, with respect to the vertical frame, is formed as a first and second supporting frame where is formed a concave grooves the drain member is inserted to, the drain member is placed on the concave grooves of the horizontal frame to let the first and the second supporting frame fixed, and the front and the back of which is finished with the front and the back panel; and a drain member which has a tube geometry made of plastic, PVC or steel, has multiple discharge members formed in the tube with constant distance, has a discharge member and an inserted tube connected to a fire hose in the case of fire on the concave grooves of the first and the second supporting frame, the inside the doorframe, and therefore water is sprayed into the inside of door in the case of fire. Accordingly, water incoming through a fire hose connected to the inserted tube in the case of fire is sprayed into the inside of the door, minimizing fire damage.

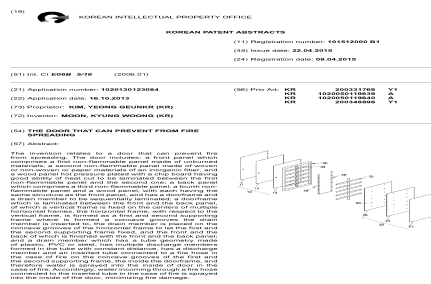
Publication: [KR 101512000 B1 20150422](#)

Applicant: KIM, YEONG GEUN, KR

Inventor: MOON, KYUNG WOONG, KR

Prio:

Appl.No: KR1020130123084



IPC: E06B 5/16 2006.01 (IA)

LOUVER OPERATING DEVICE

The invention relates to a louver operating device which improves the operability of a louver, prevents damage, and extends life. The device is operated by: a housing (10) which is installed in a frame (2) on which multiple louvers (1) are mounted to be rotated; a first bevel gear (20) which is installed inside the housing (10) and mounted in the axis of louver (21) operating the louver (1); and an operating axis (31) which is engaged with the first bevel gear (20) inside the housing (10) and connected to the power (40), thereby improving the operability of louver.

Publication: **KR 101512460 B1 20150416**

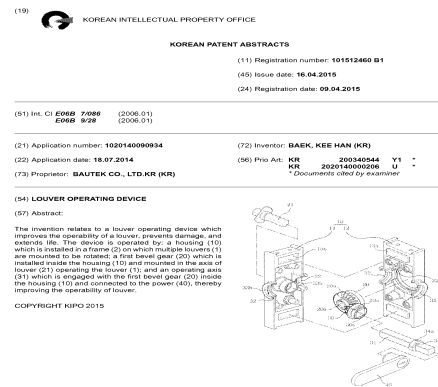
Applicant: BAUTEK CO., LTD., KR

Inventor: BAEK, KEE HAN, KR

Prio:

Appl.No: KR1020140090934

IPC: E06B 7/086 2006.01 (IA)



MANUFACTURING METHOD OF IMPROVED INSULATION FRAME FOR WINDOWS AND DOORS

This invention relates to a manufacturing method of an improved insulation frame applicable for windows and doors; for example, a conventional window, a glass wall in a building, and a door made of tempered glass. An objective of the present invention is to provide a manufacturing method of the frame with a stainless auxiliary frame inserted between the sides of a main frame made of aluminum through extrusion, and connected using an insulation material in a way which the said main frame is divided into two equal parts; a left and a right in order to improve insulation and appearance while providing ease of maintenance with outstanding corrosion resistance, and increasing an overall flexural strength of the frame by filling inside the said main frame with insulating filling. In other words, the invention suggests a method which forms two holes on the top and bottom to allow a main frame made of aluminum through extrusion to be separated right and left, and a blocking plate slot inside one hole also filled in the said hole with insulation material to prevent heat transfer through the said main frame; and at the same time facilitates manufacturing by simply inserting and assembling a stainless auxiliary frame between the sides of the said main frame.

Publication: **KR 101514022 B1 20150422**

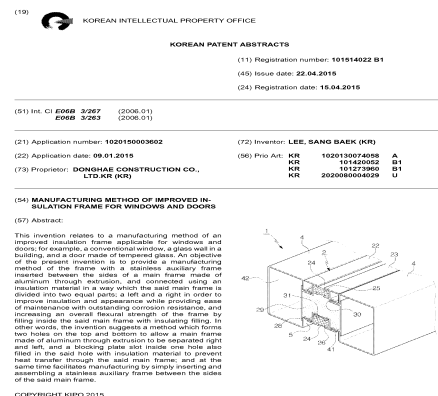
Applicant: DONGHAE CONSTRUCTION CO., LTD., KR

Inventor: LEE, SANG BAEK, KR

Prio:

Appl.No: KR1020150003602

IPC: E06B 3/267 2006.01 (IA)



FIXING STRUCTURE FOR INSECT-PROOF SCREEN NET

A present invention relates to a fixing structure for an insect-proof screen net wherein the invention facilitates an installation of a net on a frame of the said insect-proof screen and firmly fixates a net to the said frame. To achieve this, the invention comprises: the invention installed in a window to prevent harmful bugs and insects from the outside from entering in; a net with countless holes to be mounted on one side of the said frame; an inserting hole on one side of the said frame where the outer side of the said net is inserted; a soft fixating part on one inside of the said inserting hole to hold down and fixate the outer side of the net inserted into the inserting hole and a stop wherein the end of the said fixing part is fixated.

Publication: [KR 101514025 B1 20150422](#)

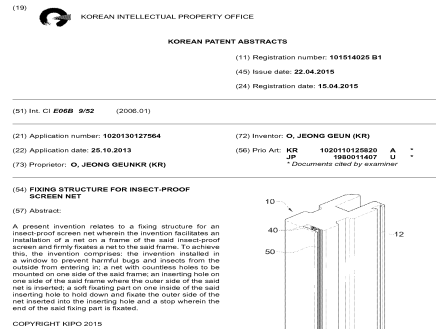
Applicant: O, JEONG GEUN, KR

Inventor: O, JEONG GEUN, KR

Prio:

Appl.No: KR1020130127564

IPC: E06B 9/52 2006.01 (IA)



BLIND IN WHICH THREE-DIMENSIONAL SOLID FABRIC IS FOLDABLE

The present invention provides a blind in which a three-dimensional solid fabric is foldable, comprising: a body; a winding part in which double fabrics separable from each other, and a solid fabric comprising a plurality of connection lines for connecting the double fabrics are wound along a movement path, for winding the solid fabric or releasing the winding by forward or reverse rotation; an operation unit installed in the body to be disposed on the movement path so that adhesive strength is applied to an outer surface of the solid fabric for adhesion, in which the double fabrics are separated to be stereotactic by moving one of the double fabrics of the solid fabric according to rotation; and an interlocking part installed in the body, for releasing an operation of the operation unit when the winding part is wound.

Publication: [KR 101514288 B1 20150422](#)

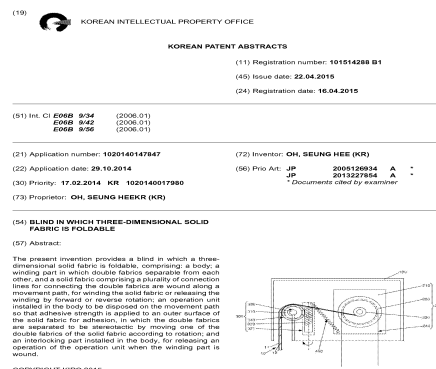
Applicant: OH, SEUNG HEE, KR

Inventor: OH, SEUNG HEE, KR

Prio: KR 20140217 1020140017980

Appl.No: KR1020140147847

IPC: E06B 9/34 2006.01 (IA)



DRIVING SYSTEM FOR SHADES OF HONEYCOMB

The present invention relates to a driving system for shades of a honeycomb, and comprises: rails (111, 112) protruded horizontally on both sides of an inner side of a frame (110), and on an upper rail (111) a traction roller (120) enabled to move and on a lower rail (112) a suspended roller (130) is enabled to move; the suspended roller (130) equipped with wheels (132) on both side of a body (131), and an engagement groove (133) protruded toward a lower side of the center of the body (131) to draw an upper part of a honeycomb (140); the traction roller (120) composed of a horizontal plate (121) and a vertical plate (132); a traction member (121) equipped with several screw holes (121a, 121b) and a pair of bodies (122, 123) equipped with wheels (122a, 123a) on both sides which are mutually separated in a front and a rear of an upper side of a horizontal plate (121c) of the traction member (121) which is screw engaged; and a traction rack (160) engaged by an engagement groove (170) on a vertical plate (121d) of the traction member (121) to draw a side of the honeycomb (140). The present invention is a very useful invention in that on the frame, the traction roller can move in an upper part and the suspended roller can move on a lower part such that interference of the traction roller and the suspended roller may be avoided; thereby the convenience of installation may be achieved, and the center of weight may not be deviated to one side by arranging wheels on both sides of the traction roller and the suspended roller securing stable and smooth traveling.

Publication: [KR 101515230 B1 20150427](#)

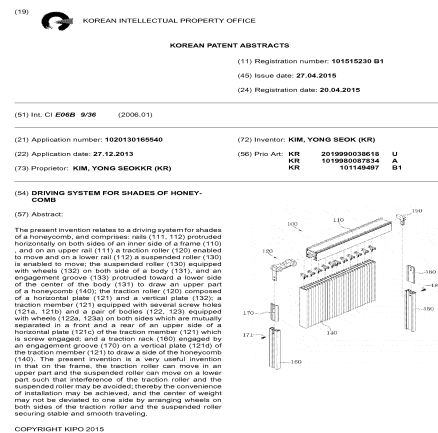
Applicant: KIM, YONG SEOK, KR

Inventor: KIM, YONG SEOK, KR

Prio:

Appl.No: KR1020130165540

IPC: E06B 9/36 2006.01 (IA)



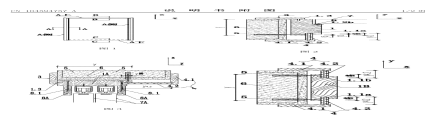
Novel universal-deployment fast-assembly door-and-window frame and manufacturing method thereof

The invention discloses a novel universal-deployment fast-assembly door-and-window frame and a manufacturing method thereof. The novel universal-deployment fast-assembly door-and-window frame comprises a horizontal sliding door sleeve, a sliding door sleeve, an idle door sleeve, a window sleeve and a thick-wall door sleeve. Each pattern comprises a main board with a unified width of about 150 mm or 90 mm, adjustable L-shaped decorative plates at front and rear sides of the thick wall or an L-shaped plate at the front side and a fixed rectangular decorative plate at the rear side. The L-shaped plate consists of a high-quality decorative strip and an embedded manmade plate with width not more than 230 mm or 290 mm. The main board with a designed dimension is manufactured into an inverted U-shaped board by slitting through a standard board and the like, various L-shaped and rectangular boards are optimized and slit on the spot to deploy a width adjustment range produced by a two-main-board combined structure and the like, so that adjustment needs of the existing door-and-window frame with various standard and nonstandard wall thickness differences are completely met. The inverted U-shaped plate is sent to an installation site as a standard part, a simple cutter storeroom is only arranged, the inverted U-shaped plate is optimized and slit into boards of various specifications according to the practical wall thickness, and the installation site is free of noise pollution. The novel universal-deployment fast-assembly door-and-window frame is standard, large-scale, short in production period, quick and convenient to mount, and high in product quality, and especially suitable for lots of existing door-and-window frames on high-rise nonstandard walls.

Publication: [CN 104594757 A 20150506](#)

Applicant: LUO ZHENGREN

Inventor: LUO ZHENGREN



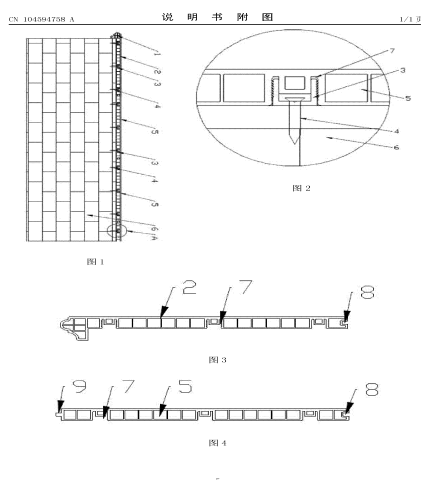
Prio:
Appl.No: CN201510083329
IPC: E06B 1/34

Novel environment-friendly energy-saving window sill plate

The invention discloses a novel environment-friendly energy-saving window sill plate. The window sill plate is formed by splicing a front plate and at least one splice plate in sequence, wherein at least one clamping groove which is clamped with a clamping strip is formed below the front plate and the splice plate; the clamping strips are fixedly arranged on the window sill. Basic accessories of the window sill plate are all made of a PVC (Polyvinyl Chloride) material, and the surface is coated with an anti-ultraviolet PVC film; the product is unlikely to discolor, can be easily machined into multilayer color, can be made into marble vein, can also be made into a wood grain, can fully substitute a marble window sill stone, is low in cost and has a more attractive appearance; besides, the window sill plate has better machining performance compared with the marble window sill plate and is convenient to transport and easy to mount; the entire window sill plate is detachable, the resource is recoverable, and energy conservation and environmental friendliness are realized.

Publication: [CN 104594758 A 20150506](#)

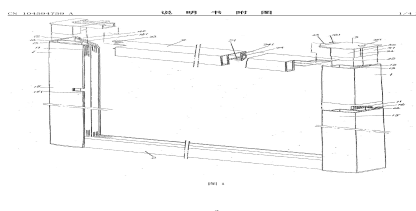
Applicant: KLF HOME COLLECTION CO LTD
Inventor: HU HENGFENG; YANG HONGYU
Prio:
Appl.No: CN201510060145
IPC: E06B 1/70



Cabinet door frame structure for food refrigeration display cabinet

The invention relates to a cabinet door frame structure for a food refrigeration display cabinet and belongs to the technical field of domestic appliances. The cabinet door frame structure comprises a pair of longitudinal frame bodies, a pair of horizontal frame bodies and a corner transition connector, wherein longitudinal frame body glass embedding slots are respectively formed along the height directions of the longitudinal frame bodies; horizontal frame body glass embedding slots are respectively formed along the length directions of the horizontal frame bodies; inner and outer insert pipe inserting chambers are respectively formed along the height directions of the pair of longitudinal frame bodies; the inner and outer insert pipe inserting chambers are separated by an inserting chamber separating plate; horizontal insert pipe inserting chambers are respectively formed along the length directions of the horizontal frame bodies; inner and outer insert pipes and horizontal insert pipes are formed on the corner transition connector; an inserting chamber separating plate demising slot is formed between inner and outer insert pipes; the inner insert pipe is inserted into the inner insert pipe inserting chamber; the outer insert pipe is inserted into the outer insert pipe inserting chamber; the horizontal insert pipes are inserted into the horizontal insert pipe inserting chambers; a handle wing buckle extends along the height direction of a front side wall of the longitudinal frame body on the left side. The whole connecting effect between the pair of longitudinal frame bodies and the pair of horizontal frame bodies is ensured; a fastener is not additionally used for enhancing the connection; a door handle is not additionally mounted.

Publication: [CN 104594759 A 20150506](#)
Applicant: SUZHOU LEIBA ELECTRICAL APPLIANCE CO LTD
Inventor: HUANG YONGWEI
Prio:
Appl.No: CN201510040900



IPC: E06B 3/04

Aluminum sectional material fracturing bridge

The invention belongs to the field of building apparatuses, and discloses an aluminum sectional material fracturing bridge. The aluminum sectional material fracturing bridge comprises a sectional material body. A step is arranged on the top of the sectional material body. The high plane and the low plane of the step of the sectional material body are each provided with a protruding edge. A reinforcing rib is arranged inside the sectional material body, wherein the reinforcing rib and the low position of the step are located on the same plane. One side of the sectional material body is in a straight plate shape, the other side of the sectional material body is provided with a protruding step, and the two ends of the bottom of the sectional material body are each provided with a clamping strip groove. The size of the opening positions of the clamping strip grooves is smaller than that of the bottoms of the clamping strip grooves. A composite ceramic layer is arranged on the outer side of the sectional material body. The aluminum sectional material fracturing bridge has the advantages of being simple in structure and good in heat insulation performance.

Publication: [CN 104594760 A 20150506](#)

Applicant: WUXI HONGSHENG ALUMINIUM IND

Inventor: WANG HONGCHU

Prio:

Appl.No: CN201410689019

IPC: E06B 3/16

CN 104594760 A 说明书附图 1/1 页

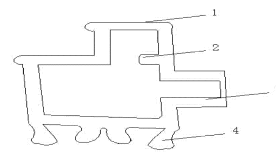


图 1

6

Aluminum alloy door and window system

The invention relates to an aluminum alloy door and window system, in particular to a side hung aluminum alloy door and window system. The aluminum alloy door and window system aims at protecting a thermal insulation strip against water entering, preventing the thermal insulation strip from being exposed to the sun and prolonging the service life of the thermal insulation strip. The aluminum alloy door and window system comprises a frame body profile, the thermal insulation strip, a water blocking strip and a fan body profile. A bridge cutoff thermal insulation structure is composed of the thermal insulation strip and the frame body profile. The water blocking strip is fixedly connected with the thermal insulation strip. When the fan body profile and the frame body profile are closed, a cavity is composed of the fan body profile, the frame body profile and the thermal insulation strip, and the water blocking strip is located in the cavity. The water blocking strip is connected with the frame body profile in a sealed mode so that the thermal insulation strip can be isolated from the cavity.

Publication: [CN 104594761 A 20150506](#)

Applicant: SUZHOU LOPSKING ALUMINUM CO LTD

Inventor: WANG YONGHONG

Prio:

Appl.No: CN201310530707

IPC: E06B 3/263

CN 104594761 A 说明书附图 1/2 页

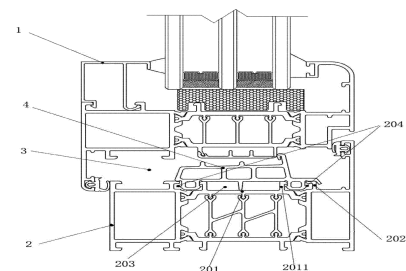


图 1

6

Width-adjustable auxiliary frame

The invention discloses a width-adjustable auxiliary frame. A plurality of frames are connected to form a sealed rectangular frame through corner connectors. Each frame comprises a first component, a second component, at least one third component and a fourth component from an outdoor side to an indoor side in sequence. The first component, the second component, the third component and the fourth component are connected with each other. A first clamping buckle connected with an adjacent third component is arranged on one side of the third component. A second clamping buckle connected with the adjacent third component or the fourth component is arranged on the other side of the third component. The width-adjustable auxiliary frame is convenient to mount and ingenious in design, the width of the auxiliary frame can be adjusted according to the width of the section of a mounting door frame, the problems caused by the fact that the door window section width is not matched with the auxiliary frame width are solved, sectional material waste is avoided, great water blocking and heat preservation effects are achieved, and great practicability is achieved.

Publication: [CN 104594762 A 20150506](#)

Applicant: GUANGXI FUMEIYAO ENERGY SAVING WINDOWS AND DOORS CO LTD

Inventor: LI ZHIYUAN; LIANG CONG

Prio:

Appl.No: CN201410676665

IPC: E06B 3/263

CN 104594762 A 说明书附图 1/2页

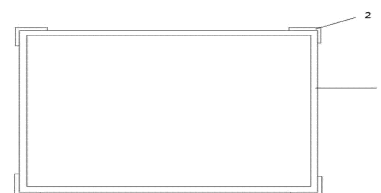


图 1

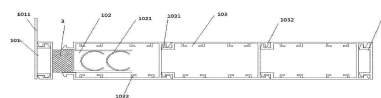


图 2

6

Heat-insulating aluminum alloy section comprising heat-insulating bars and multiple seals

The invention discloses a heat-insulating aluminum alloy section comprising heat-insulating bars and multiple seals. The heat-insulating aluminum alloy section comprises a window frame (14) and a window sash (15), wherein the window frame (14) is compounded by an inner window frame (18) and an outer window frame (19); the window sash (15) is compounded by an inner window sash (20) and an outer window sash (21); the window frame (14) and the window sash (15) are provided with a plurality of sealing element notches; matched sealing elements and heat-insulating bars are arranged in the notches; the inner window frame (18) and the outer window frame (19) are connected through a deformed sealing channel (10); a plurality of sealing elements are arranged on the deformed sealing channel (10). The heat-insulating aluminum alloy section has a good sealing effect.

Publication: [CN 104594763 A 20150506](#)

Applicant: TU YIHONG

Inventor: TU YIHONG

Prio:

Appl.No: CN201510049032

IPC: E06B 3/263

CN 104594763 A 说明书附图 1/2页

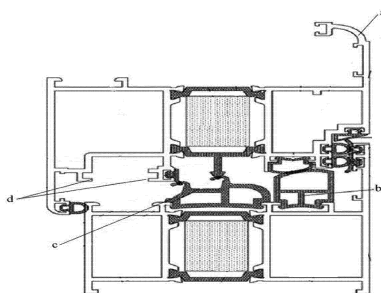


图 1

7

SHOWER DOOR ASSEMBLY

A shower door assembly includes a wall member, a door and a hinge assembly. The wall member is configured to be coupled to a fixed portion of a bathing enclosure. The door is pivotably coupled to the wall member by the hinge assembly, and the door is positioned such that at least a portion of the door overlaps with at least a portion of the wall member when the door is in a closed position. The door is configured to pivot about a pivot axis relative to the wall member between an opened position and a closed position. The door is also configured to translate in a direction normal to the pivot axis to selectively adjust a relative distance between a side edge of the door and a side edge of the wall member such that the door fits in a door opening of the bathing enclosure.

Publication: [CN 104594764 A 20150506](#)

Applicant: KOHLER CO
Inventor: GREG L PARRIS; JAMES L MARLOWE; ROQUE M CORPUZ JR
Prio: US 20131031 201361898118
Appl.No: CN201410598518
IPC: E06B 3/36

CN 104594764 A 说明书附图 1/7页

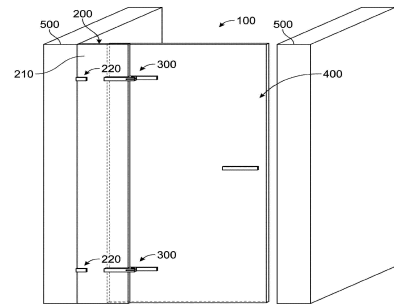


图 1

11

Door hinge mechanism and box type transformer substation with door hinge mechanisms

The invention discloses a door hinge mechanism and a box type transformer substation with door hinge mechanisms. A containing groove which is concaved backwards and used for containing a hinge is formed in the position, on a hinged frame edge, in the door hinge mechanism, a rotating axis of the hinge is located in front of the containing groove, and the distance between the edge of the outer groove edge of the containing groove and the rotating axis of the hinge is not smaller than the distance between the rotating axis and the edge of the rear side edge of a hinged plate edge. Therefore, when a door plate is closed, due to the fact that the inner side of the hinge is partially located in the containing groove, the spacing distance between the hinged plate edge of the door plate and the hinged frame edge of a door frame is reduced, that is, the distance of a door slot is reduced, so that it is guaranteed that the whole box type transformer substation is better in sealing performance when the door plate is closed under the condition that the door plate can be closed and opened normally.

Publication: [CN 104594765 A 20150506](#)

Applicant: STATE GRID CORP CHINA; STATE GRID ZHEJIANG ELECTRIC POWER CO; XUJI ELECTRIC CO LTD; XUJI GROUP CO LTD
Inventor: HU HUIJING; MIAO JIA; WANG YANGYANG; WU XINGTAN; YAN KAI
Prio:
Appl.No: CN201410744913
IPC: E06B 3/36

CN 104594765 A 说明书附图 1/2页

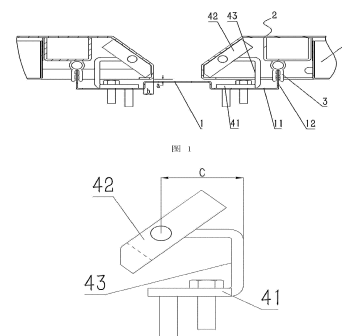


图 2

9

Electric sash window

The invention discloses an electric sash window. The electric sash window comprises a window frame, wherein a first rail and a second rail are symmetrically arranged at upper and lower ends of the window frame; a plurality of windows are arranged in the window frame; a gear is connected at one end of each window; a plurality of rail positioning wheels are arranged at the other ends of the windows; drive heads are cooperatively connected to the gears; a rack is arranged on the first rail; the rack is engaged with the gears; the rail positioning wheels are arranged on the second rail. The electric sash window disclosed by the invention can be opened and closed through electric drive, is simple in structure, stable to operate and convenient to use.

Publication: [CN 104594766 A 20150506](#)

Applicant: WUXI SHENXIAN RESIDENCE SUPPORTING FACILITY FACTORY

Inventor: SHEN XIAN

Prio:

Appl.No: CN201510000439

IPC: E06B 3/46

CN 104594766 A 说明书附图 1/3页

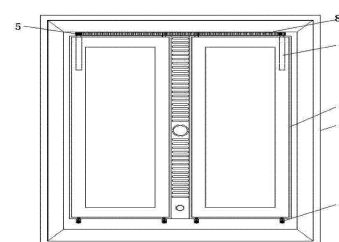


图 1

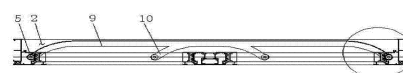


图 2

6

Sliding device

The invention discloses a sliding device. The sliding device comprises a first glide and a first sliding sash, wherein the first glide sequentially comprises a first side frame, a first slide rail and a second side frame; the first sliding sash comprises a first sash frame and a second sash frame; a sealing component is arranged between the first slide rail and the first sash frame, and a sealing component is arranged between the second side frame and the second sash frame, so that a first sealed isotonic cavity is formed among the first slide rail, the first sash frame, the second side frame and the second sash frame; at least two through holes are formed in each of the first slide rail and the second side frame; a draining device with a one-way draining valve is arranged on each of at least two through holes; a first groove body is formed between the first side frame and the first slide rail, as well as between the first side frame and the first sliding sash. According to the sliding device provided by the invention, the problem that rainwater cannot be timely drained and overflows into a room is solved.

Publication: [CN 104594767 A 20150506](#)

Applicant: GUANGDONG JMA ALUMINIUM PROFILE FACTORY GROUP CO LTD

Inventor: CHEN XIAONA; FAN JIANHUA; HUANG JINGSHI; HUANG XIAOMEI; HUANG YONGZHI; HUO YAOLIANG; QIAN HUA; YU ZHILONG; ZHU YONGHAO

Prio:

Appl.No: CN201510029119

IPC: E06B 3/46

CN 104594767 A 说明书附图 1/2页

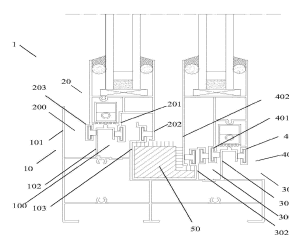


图 1

10

Fast installing type overhaul door

The invention discloses a fast installing type overhaul door, which comprises a box body, a door plate, a hanging frame, a pressing lock and a lock buckle, wherein a hanging frame seat is arranged on the box body, one end of the hanging frame is rotatably installed with the hanging frame seat, the other end of the hanging frame is connected with the door plate, the lock buckle is arranged on the box body, the pressing lock is arranged on the door plate, the lock buckle is matched and installed with the pressing lock, the front end of the lock buckle is provided with a barb structure, the pressing lock consists of a lock ring, an installing seat, a connecting shaft and a press rod, the installing seat is fixedly arranged on the door plate, one end of the press rod is rotatably arranged on the installing seat, the connecting shaft passes through the press rod, the two ends of the lock ring are fixedly installed with the two ends of the connecting shaft, the barb structure is matched and installed with the lock ring, and a movable pull ring is arranged on the door plate. The fast installing type overhaul door has the advantages that the door plate can be arranged on the box body after the matched installation of the pressing lock and the lock buckle, so that the opening and the closing of the door plate is very convenient and fast, meanwhile, the door plate and the box body are connected through the hanging frame, the door plate does not need to be rotated for 90 degrees after the door plate is opened, the ground occupation area is reduced, and the production efficiency is improved.

Publication: [CN 104594768 A 20150506](#)

Applicant: HANGZHOU HOTA ELECTROMECHANICAL INDUSTRY CO LTD

Inventor: XU QING

Prio:

Appl.No: CN201510014167

IPC: E06B 3/50

CN 104594768 A 说明书附图 1/3页

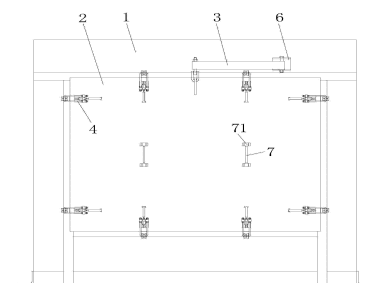


图 1

5

Device and method for mounting high noise resistance quartz window under high temperature environment

The invention relates to the technical field of structural thermal noise composite environment tests, in particular to a device and method for mounting a high noise resistance quartz window under a high temperature environment. The mounting device comprises brackets (3), thermal insulation felt (4), metal shock pads (5), fastening bolts (6) and gland nuts (7). The brackets (3) are U-shaped groove components and are arranged on the upper side and the lower side of the window of a mounted object (1), and the two brackets (3) with opposite openings are mounted to be used for constraining the quartz window (2). The thermal insulation felt (4) is arranged between the quartz window (2) and the brackets (3) in a cushioned mode. In the horizontal direction, the metal shock pads (5), the fastening bolts (6) and the gland nuts (7) are used for fixing the quartz window (2). By the adoption of the device and method, the mounting stress caused by thermal deformation of a traveling-wave tube can be relieved, meanwhile, stable pretightening force can be provided under the high temperature environment, and the integrity of the thermal noise test system is guaranteed.

Publication: [CN 104594769 A 20150506](#)

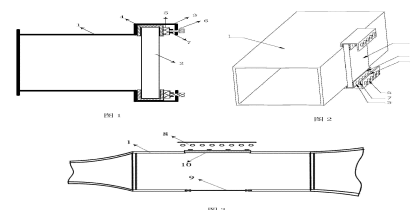
Applicant: BEIJING INST STRUCTURE & ENVIRONMENT ENG; CN ACADEMY LAUNCH VEHICLE TECH

Inventor: JIN RONGHUA; KONG FANJIN; LIU BAORUI; WU ZHENQIANG; ZHANG WEI

Prio:

Appl.No: CN201310527058

CN 104594769 A 说明书附图 1/3页



6

IPC: E06B 3/54

Built-in aluminium door/window bead structure for buildings

The invention relates to a built-in aluminium door/window bead structure for buildings, which belongs to the technical field of building profiles. The built-in aluminium door/window bead structure for buildings comprises a vertical piece (1), a horizontal piece (2) is arranged at the bottom of the vertical piece (1), the included angle between the horizontal piece (2) and the vertical piece (1) is 90 degrees, the top end of the vertical piece (1) is provided with fasteners, the fasteners are a left fastener (3) and a right fastener (4), and the left fastener (3) is provided with a herringbone notch (5) and a claw (6). The vertical piece (1) is also provided with an inverted fastener (7), and the upper part of the inverted fastener (7) is provided with annular barbs (8). The built-in aluminium door/window bead structure for buildings is used for being mounted on the indoor surface of an aluminium alloy window frame or an aluminium-wood composite window frame and replacing glass, thus greatly eliminating the potential safety hazards of externally mounting glass, moreover, the strength of the built-in aluminium door/window bead structure for buildings is high after mounting, consequently, the using effect is ensured, and the requirement of people is met.

Publication: **CN 104594770 A 20150506**

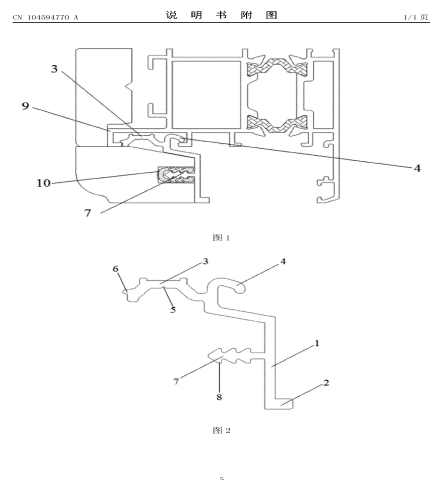
Applicant: HEFEI JIAWEI DECORATION ENGINEERING CO LTD

Inventor: DING YIMIN; HUANG LONGXIANG; KONG DEYUN; WANG BEN GANG

Prio:

Appl.No: CN201510010267

IPC: E06B 3/58



External thermal insulation hollow glass casement window opening sash structure

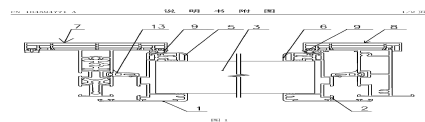
An external thermal insulation hollow glass casement window opening sash structure is provided with combined glass, a left opening sash frame and a right opening sash frame, wherein the left opening sash frame and the right opening sash frame are arranged symmetrically, correspondingly connected with a center pillar structure and a frame structure of a hollow glass casement window respectively and used for fixing the left side of the combined glass and the right side of the combined glass respectively. A left opening sash external thermal insulation piece is connected between the left opening sash frame located on the outdoor side and the left side of the combined glass. A right opening sash external thermal insulation piece is connected between the right opening sash frame located on the outdoor side and the right side of the combined glass. The left opening sash frame and the right opening sash frame are correspondingly connected with the center pillar structure and the frame structure through the left opening sash external thermal insulation piece and the right opening sash external thermal insulation piece respectively. According to the external thermal insulation hollow glass casement window opening sash structure, external cavity thermal insulation materials in an indoor part are eliminated, fire safety and sealing of glass connecting positions are achieved, and the thermal insulation performance is substantially enhanced; by changing the structure of sectional materials, the defects that sashes are high in installation and production difficulty and poor in accuracy and intersecting portions are prone to breakage are overcome.

Publication: **CN 104594771 A 20150506**

Applicant: TIANJIN CITY GERUI DEMAN BUILDING DECORATION ENGINEERING CO LTD

Inventor: JIA LI; SHEN LEWEI

Prio: CN 20140930 201410520876



Appl.No: CN201410659702
IPC: E06B 3/67

Glass frosting powder glass door

The invention discloses a glass frosting power glass door. The glass frosting power glass door comprises a door body, wherein an inner glass layer and an outer glass layer are arranged in the door body, a hollow layer is arranged between the inner glass layer and the outer glass layer, a glass frosting powder glass layer is arranged outside the outer glass layer, multiple air holes are formed in the door body, and two air purifiers are arranged on the door body. The glass frosting power glass door is reasonable in design, simple in structure and convenient to use. According to the glass frosting powder glass door, the hollow layer is arranged in the glass frosting powder glass layer, the air holes are arranged, and thus the glass frosting power glass door has the excellent breathability and excellent sound absorption performance; due to the fact the air purifiers arranged, air can be purified, and safety and health are guaranteed; in addition, due to the fact that the glass frosting powder glass layer is arranged, light transmission is achieved, people can not see through the glass door, and indoor light is soft but not dazzling.

Publication: **CN 104594772 A 20150506**

Applicant: DENG FENG CITY YUKE GLASS TECHNOLOGY
CO LTD

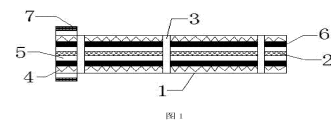
Inventor: JING ZHIJIE

Prio:

Appl.No: CN201310528111

IPC: E06B 3/70

CN 104594772 A 说明书附图 1/1页



Car wall door sheet and coating method thereof

The invention relates to a car wall door sheet and a coating method of the car wall door sheet. The car wall door sheet comprises a stainless steel panel with the thickness being 1.2-2.0 mm, and a chemical conversion layer and a top coat are formed on the outer surface of the stainless steel panel in sequence. The chemical conversion layer is formed by immersing the stainless steel panel in a chemical conversion solution for 5-10 minutes, and the mass of the formed chemical conversion layer is 5-10g/m². The top coat is formed by coating a surface treating agent on the stainless steel panel provided with the formed chemical conversion layer and then curing the stainless steel panel at the temperature of 120-150 DEG C for 15-30 minutes. The car wall door sheet has high hardness and excellent wear-resistant performance, is not stuck to water or oil substances and has excellent anti-pollution performance.

Publication: **CN 104594773 A 20150506**

Applicant: SUZHOU MAYFORD ELEVATOR CO LTD

Inventor: GE XIAODONG; WANG YING

Prio:

Appl.No: CN201410742824

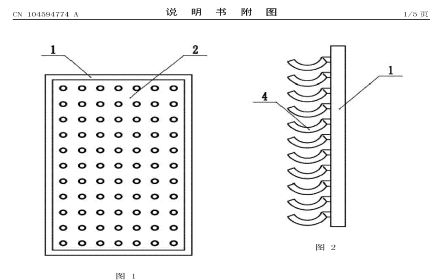
IPC: E06B 3/70

Peep prevention ventilating window

The invention provides a peep prevention ventilating window. A window frame is provided with inserting grooves I and inserting grooves II. The inserting grooves I are vertical and are formed along long edges of the window frame from top to bottom. The inserting grooves II are transverse and are formed along short edges of the window frame from right to left. The inserting grooves I are matched with a glass plate in shape and size and are used for placing the glass plate. The inserting grooves II are matched with an inserting plate in shape and size and are used for storing the inserting plate so as to fix the glass plate into the inserting grooves I. The glass plate is provided with a plurality of evenly-distributed through holes, and all the through holes are pass-through holes and penetrate through the glass plate. The through holes are used for ventilating and fixing pipes as well. By means of the peep prevention ventilating window, external peep can be prevented, and wind can enter a room; dust carried in the wind can be reduced by adding a small quantity of water into the pipes, and the dustproof function is achieved.

Publication: [CN 104594774 A 20150506](#)

Applicant: UNIV GUANGXI
Inventor: LONG ZOU
Prio:
Appl.No: CN201410711628
IPC: E06B 5/00

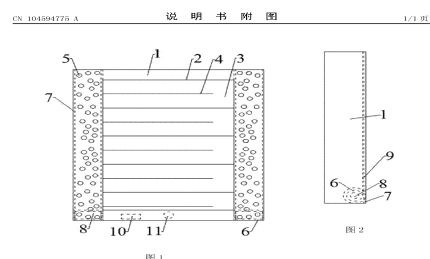


Multifunctional window

The invention discloses a multifunctional window which comprises a window frame. Glass is mounted in the window frame and is composed of multiple units, and electric heating wires are mounted in the heating color-changing glass. Multiple ventilation holes are formed in the surfaces of two vertical frames of the window frame, the interiors of the two vertical frames of the window frame are of hollowed-out structures, rolling wheels and guide rails are mounted in the two vertical frames of the window frame, a motor is mounted in each rolling wheel, the motors are connected with the guide rails, and a filter screen is mounted on the rolling wheels. A processing unit is mounted on the window frame, and a photosensitive element is arranged at the lower end of the window frame. The processing unit is connected with the electric heating wires, the photosensitive element and the motors. The processing unit is connected with a mobile terminal through a network. In this way, the multifunctional window not only has the wind and rain prevention function, but also can be adjusted according to the intensity of sunshine, and air entering a room is also purified.

Publication: [CN 104594775 A 20150506](#)

Applicant: CHANGSHU XINJILI METAL PRODUCTS CO LTD
Inventor: WANG ZULIANG
Prio:
Appl.No: CN201410807671
IPC: E06B 5/00



Civil air defense door

The invention provides a civil air defense door which comprises a door body, connecting rods, a cross rod, bolts, a door opening pedal, a door closing pedal and a rotary shaft. The bolts are connected with the door body through connecting shafts, and the bolts are connected through the connecting rods. The connecting rods are fixed together through the cross rod. The cross rod is connected with the rotary shaft through the chain. The rotary shaft is connected with the door opening pedal through a chain. The door closing pedal and the cross rod are fixed together through the connecting rods.

Publication: [CN 104594776 A 20150506](#)

Applicant: ZHONGSHAN ANLING STAR ELECTRONIC TECHNOLOGY CO LTD

Inventor: TANG CHUNHUA

Prio:

Appl.No: CN201410553571

IPC: E06B 5/10

CN 104594776 A 说明书附图 1/1页

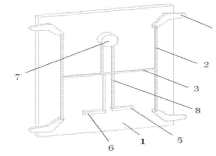


图 1

6

Explosion venting window with passive explosion function

The invention provides an explosion venting window with a passive explosion function. The explosion venting window is fixedly arranged on a wall body of a room requiring pressure relief. The explosion venting window is characterized by comprising a window frame and an explosion film, wherein the window frame is fixedly arranged on the wall body, and is used for connecting the wall body and the explosion film, the window frame comprises an outer frame and an inner frame, the outer frame penetrates through the wall body, the inner frame forms a convection passage between an internal environment and an external environment of the room, and the explosion film is correspondingly connected with the window frame, and is used for sealing the inner frame, so as to cut off the convection passage. The explosion venting window with the passive explosion function has the advantages that the structure is simple, the assembly is convenient, the manufacturing cost is low, and the batch production and installation are realized.

Publication: [CN 104594777 A 20150506](#)

Applicant: CGN POWER CO LTD; CHINA GENERAL NUCLEAR POWER; CHINA NUCLEAR POWER TECHNOLOGY RES INST CO LTD

Inventor: HOU HUAQING; JI WENYING; JIANG XIAOHUA; LIAO YEHONG; LUO HANYAN; YANG ZHIFEI

Prio:

Appl.No: CN201510026863

IPC: E06B 5/10

CN 104594777 A 说明书附图 1/1页

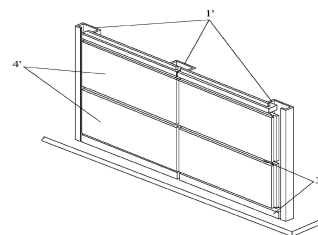


图 1

6

Rapid installation safety protection door

The invention discloses a rapid installation safety protection door. The rapid installation safety protection door comprises a door body 1, wherein a tightening mechanism 2 is fixed on the middle part of the back of the door body 1; the tightening mechanism 2 comprises a shell 3 and sleeves 11 fixed on the middle part of the back of the door body 1; the shell 3 is positioned between two sleeves 11; a nut 4 is fixed at the front end of the shell 3; a screw rod 5 is arranged in the nut 4; the front end of the screw rod 5 is provided with an inner hexagonal hole 6, and the back end of the screw rod 5 is provided with a check block 7; a segment of reduced polished rod 8 is arranged on the back part of the screw rod 5; a movable block 9 is arranged on the polished rod 8 in a sleeving way; push rods 12 are inserted into the two sleeves 11; the inner ends of the two push rods 12 are hinged to the two ends of the movable block 9 through a connecting plate 10; the outer ends of the two push rods 12 are connected with fixing claws 26. The rapid installation safety protection door is fixed on wall surfaces on both sides of a door hole through the tightening mechanism, and can be disassembled and assembled without damaging a wall body.

Publication: [CN 104594778 A 20150506](#)

Applicant: BAOJI CONSTRUCTION AND INSTALLATION GROUP PUBLIC LTD

Inventor: AN ZHIJUN; FU PENG; HE WEI; LIANG LEI; WANG WEI; WU BING; ZHANG LIJUN

Prio:

Appl.No: CN201510044100

IPC: E06B 5/10

CN 104594778 A 说明书附图 1/6页

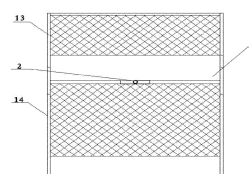


图 1

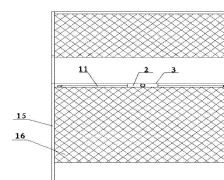


图 2

6

Fire resistance steel door

The invention discloses a fire resistance steel door. The fire resistance steel door comprises a door leaf, a door frame and hinges, wherein the door leaf comprises a frame body; the two sides of the frame body are each provided with a protrusion; the positions, near two side boards, inside the frame body, are provided with fire resistance frames; an inorganic fire resistance core plate is filled between the two fire resistance frames; one side, in contact with the two sides of the door leaf, of the door frame, is of a two-step shape; when the door leaf is closed, the door leaf is integrally embedded into the door frame, wherein the frame body is located in a first step of the door frame and each protrusion is located in a corresponding second step of the door frame. According to the fire resistance steel door, thermal insulation and heat preservation are achieved, and the fire resistance effect is good.

Publication: [CN 104594779 A 20150506](#)

Applicant: CHONGQING YUWANTONG NEW MATERIAL TECHNOLOGY CO LTD

Inventor: XU XIAOBO

Prio:

Appl.No: CN201410726170

IPC: E06B 5/16

CN 104594779 A 说明书附图 1/3页

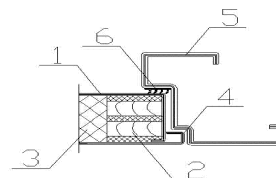


图 1

6

Shutter and electrically-charged equipment used outdoors

The invention relates to a shutter and electrically-charged equipment used outdoors. The shutter comprises a base plate, a ventilation opening protection net covering the base plate, first blades and second blades, wherein the first blades and the second blades are located on the two sides of the base plate respectively. Ventilation openings are provided with first edges and second edges which are opposite to each other. The first blades and the second blades are both in a long strip shape and both extend in the extending direction of the ventilation openings. Each first blade is provided with two opposite sides, one side of each first blade is located on the corresponding first edge and is connected with the base plate, and the other sides of the first blades extend towards the second edges to form air inlets with the base plate. Each second blade is provided with two opposite sides, one side of each second blade is located on the corresponding second edge and is connected with the base plate, and the other sides of the second blades extend towards the first edges to form air outlets with the base plate. The shutter has good rainproof performance. Meanwhile, when air passes through the ventilation openings, dust can be blocked by the protection net, and therefore a dustproof function can be achieved.

Publication: [CN 104594780 A 20150506](#)

Applicant: SHENZHEN CLOU ELECTRONICS CO

Inventor: YUAN TIANMIN

Prio:

Appl.No: CN201410711850

IPC: E06B 7/082

CN 104594780 A 说明书附图 1/3页

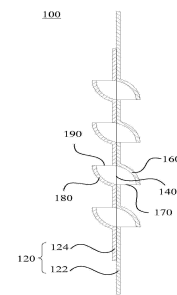


图 1

7

Drainage system of solid-wood internal casement door and window

The invention discloses a drainage system of a solid-wood internal casement door and window. A drainage guiding groove is formed in the outdoor side of the bottom of a window outer frame, an aluminum alloy drainage groove and at least one drawer type drainage device are embedded in the drainage guiding groove, the aluminum alloy drainage groove is located below a seam between a window sash and the window outer frame, at least one water leak opening is formed in the bottom of the aluminum alloy drainage groove, the first end of each drawer type drainage device is located below the corresponding water leak opening, the second end of each drawer type drainage device extends out of the window outer frame, at least one water outlet is formed in the bottom of the extending end, and the bottom face of each drawer type drainage device is an inclined surface inclining to the outdoor side. According to the drainage system of the solid-wood internal casement door and window, the waterproof components are added and certain technical measures are taken, so that rainwater seeping into the door and window is smoothly drained out of the door and window, and quality and performance of the door and window are not damaged.

Publication: [CN 104594781 A 20150506](#)

Applicant: ZHEJIANG YANHE NEW MATERIALS CO LTD

Inventor: CHEN GUODONG

Prio:

Appl.No: CN201310532133

CN 104594781 A 说明书附图 1/3页

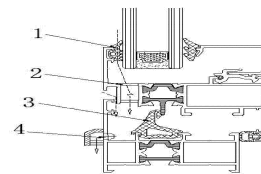


图 1

8

IPC: E06B 7/14

Mounting and dismounting type slide-down waterproof heightened inner blocking piece of sliding door and window

The invention relates to a mounting and dismounting type slide-down waterproof heightened inner blocking piece of a sliding door and window. The inner blocking piece comprises a waterproof wall, an inserting groove capable of allowing a slide-down piece to be inserted is formed in the lower end of the waterproof wall, a reinforcing plate is arranged on the inserting groove, reinforcing ribs are arranged on the reinforcing plate, first notches matched with an edge rabbet are formed in the two ends of the reinforcing plate, an edge rabbet connecting portion is arranged at the upper end of the waterproof wall, and a second notch and a third notch are formed in the two ends of the edge rabbet connecting portion. The height of the waterproof inner blocking piece can be selected according to actual needs. A door and window upper frame is convenient to dismount after being mounted, water and air preventing density can be effectively improved, and the mounting and dismounting type slide-down waterproof heightened inner blocking piece is simple and economical. The three notches are machined through the heightened inner blocking piece, and the inner blocking piece can be reliably connected with the edge rabbet and the slide-down piece without screws. Sealant is injected into the inner side of the inner blocking piece, and the high-grade waterproof effect can be achieved.

Publication: [CN 104594782 A 20150506](#)

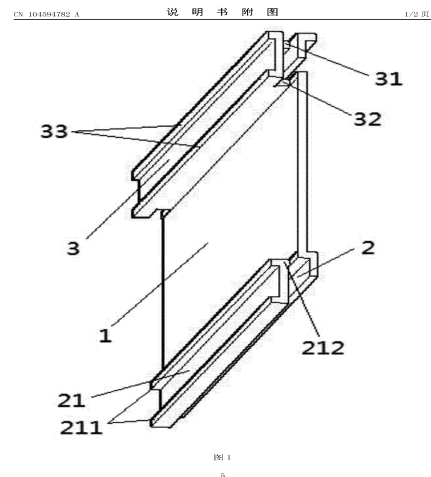
Applicant: HUIZHOU BAINIANFANGZHENG ENGINEERING CO LTD

Inventor: CHEN FUJIN

Prio:

Appl.No: CN201410829369

IPC: E06B 7/26



Multifunctional security door

The invention discloses a multifunctional security door which comprises a security door body. The multifunctional security door is characterized in that a stool is arranged on the inner surface of the security door body, and the stool is connected with the security door body through spring hinges. The stool is directly arranged on the security door body, and a user can sit and lean on the stool for taking off and putting on shoes. The multifunctional security door is reasonable in overall arrangement, simple in structure, low in manufacturing cost and convenient for the user to use, and can be used conveniently when a lamp is not turned on at night, space is saved, and the security door is overall simple and attractive, and is very convenient for the user to use.

Publication: [CN 104594783 A 20150506](#)

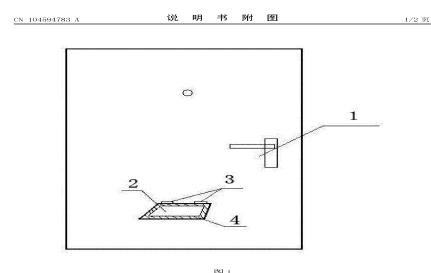
Applicant: ZHANG QIZHONG

Inventor: ZHANG QIZHONG

Prio:

Appl.No: CN201310531950

IPC: E06B 7/28



Burglary-resisting window capable of enabling clothes to be dried conveniently and manufacturing method thereof

The invention discloses a burglary-resisting window capable of enabling clothes to be dried conveniently. The burglary-resisting window comprises a burglary-resisting window body, telescopic rods and supporting and limiting blocks. An upper window body and a lower window body are arranged in the burglary-resisting window body, a transverse clothes hanger is arranged in the upper window body, and transverse clothesline poles are horizontally arranged in the transverse clothes hanger. In addition, lifting lugs are arranged at the positions, close to the middle of one side of the upper window body, on the two side edges of the transverse clothes hanger. A plurality of vertical burglary-resisting rods are evenly and fixedly arranged in the upper window body. The supporting and limiting blocks are arranged on an upper cross beam, close to the outdoor side, of the lower window body. The burglary-resisting window is simple in structure, practical and convenient to use. The arranged transverse clothes hanger can be folded and unfolded, clothes can be dried conveniently while the burglary-resisting function is achieved, and meanwhile an escape way can be provided in emergency by opening the window.

Publication: [CN 104594784 A 20150506](#)

Applicant: SUQIAN FENGCHI SECURITY CO LTD

Inventor: ZHANG CHAOFENG

Prio:

Appl.No: CN201410831186

IPC: E06B 9/01

CN 104594784 A 说明书附图 1/13页

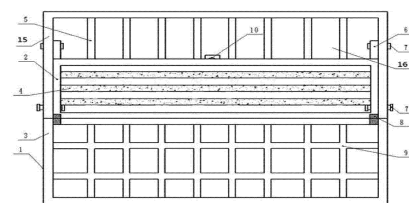


FIG. 1

6

Sequential control roll system for variable-pitch window blind provided with built-in hollow glass

The invention discloses a sequential control roll system for a variable-pitch window blind provided with built-in hollow glass. The system comprises a lifting device for controlling rising, falling and switching of all louver blades, and a louver blade separating/combining and overturning device for controlling the louver blades to rise and fall relatively and overturn as a whole, wherein the lifting device is in transmission connection with the louver blade separating/combining and overturning device, the lifting device comprises a lifting rope reeling and unreeling device capable of controlling all the louver blades to rise and fall as a whole, a planetary gear clutch capable of providing power for the louver blade separating/combining and overturning device, and a switching sliding block mechanism used for achieving working state switching of the planetary gear clutch, the louver blade separating/combining and overturning device comprises multiple louver blade overturning cylinders and louver blade horizontal movement control rolls, and a ladder belt controlling each louver blade to rise, fall and overturn independently is wound around the corresponding louver blade overturning cylinder and fixed to the corresponding louver blade horizontal movement control roll.

Publication: [CN 104594785 A 20150506](#)

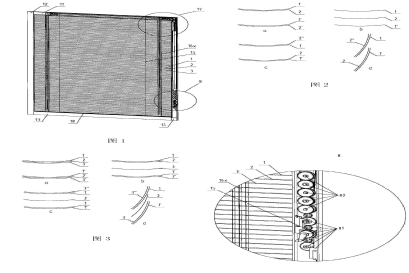
Applicant: HANGZHOU WOKASOLAR TECHNOLOGY

Inventor: XU HUIWEN; ZHANG YIFEI

Prio:

Appl.No: CN201410705248

CN 104594785 A 说明书附图 1/13页



6

IPC: E06B 9/264

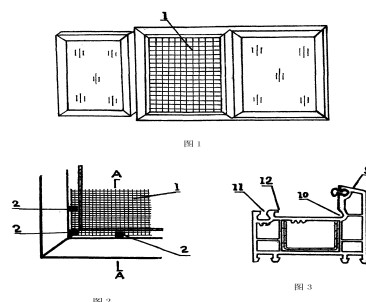
Simple screen window

A simple screen window comprises a window screen and window screen buckling-pressing pieces. The four sides of the window screen are fixed in a window frame groove in the periphery of an opening part of a casement window to form a novel screen window through the window screen buckling-pressing pieces. Only the four window screen buckling-pressing pieces and the window screen are needed, accessories are of no need, hole punching and screwing on a window frame are of no need, cost is low, service life is long, assembling, disassembling and window screen replacing are very convenient, and the shortcomings that a fixed type screen window and a hidden screen window are high in cost and short in service life, detaching and washing are not easy, window screen replacing is not easy, and using is not convenient are completely overcome.

Publication: **CN 104594786 A 20150506**

Applicant: PENG XINGYONG
Inventor: PENG XINGYONG
Prio: CN 20131030 201320691025
Appl.No: CN201410242537
IPC: E06B 9/52

CN 104594786 A 说明书附图 1/3页



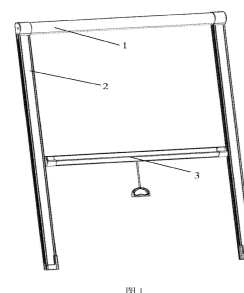
Rollback screen window with adjustable size

The invention relates to the field of doors and windows, and particularly relates to a rollback screen window with an adjustable size. The rollback screen window comprises a screen box (1), a screen window frame (2), a bottom brace and a gauze, wherein the bottom brace comprises a bottom brace main body (3), one end of the gauze is connected with the screen box (1), the other end of the gauze is connected with the bottom brace main body (3), the screen box (1) also comprises a first seal cover (11), the bottom brace also comprises an adjusting device connected to the bottom brace main body (3), the adjusting device comprises a connecting part (6) connected to the bottom brace main body (3) and an adjusting part (7) connected to the connecting part (6), the bottom brace is also provided with a fixed device, and the fixed device can be fixed on the bottom of the screen window frame (2). The length and width of the rollback screen window can be adjusted. The rollback screen window is convenient to install and high in efficiency.

Publication: **CN 104594787 A 20150506**

Applicant: TANG JUN
Inventor: TANG JUN
Prio: CN 20140728 201410361518
Appl.No: CN201510058642
IPC: E06B 9/54

CN 104594787 A 说明书附图 1/15页



Modular rail

The invention is about a modular rail. The modular rail comprises a rail main body and a plurality of guide groove limit structures integrately formed on the rail main body. A guide groove is formed in the rail main body, the guide groove limit structures form groove trenches, which are parallel to and communicated with guide groove notches, in the outer sides of the guide groove notches, and the guide groove limit structures locally shield the guide groove notches in a uncontinuous state. The modular structure integrately formed like this has the effects of mold manufacturing cost reduction, more convenient assembling and the like; and, through utilization of the guide groove limit structures integrately formed on the rail main body, the structural strength of the whole body of the modular rail is strengthened, and support strength of the modular rail to a curtain cord fabric pull rod.

Publication: [CN 104594788 A 20150506](#)

Applicant: MACAUTO IND CO LTD
Inventor: LIN PAUL; YEN HUNGMIN
Prio: TW 20131030 102139348
Appl.No: CN201410440309
IPC: E06B 9/58

CN 104594788 A 说明书附图 1/9 页

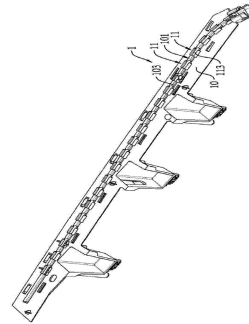


图 1

7

Electric winding curtain

The invention provides an electric winding curtain. A transmission shaft of a motor capable of being fixed to a window is connected with a winding shaft for hanging a curtain body, a power line of the motor extends downwards, the lower portion of the power line is provided with a reversible switch, and a balance weight lever is connected to the lower portion of the curtain body. In use, the curtain can be wound up and down to be folded and unfolded through the reversible switch.

Publication: [CN 104594789 A 20150506](#)

Applicant: YICHENG NO 3 SENIOR HIGH SCHOOL
Inventor: CHENG FANG
Prio:
Appl.No: CN201310532194
IPC: E06B 9/68

CN 104594789 A 说明书附图 1/1 页

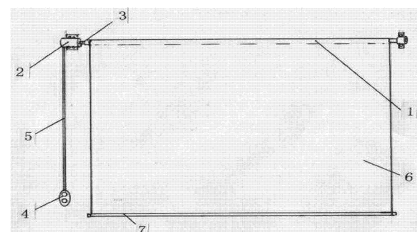


图 1

4

Work ladder with tool box capable of lifting

The invention relates to a work ladder with a tool box capable of lifting. The work ladder with the tool box capable of lifting comprises a ladder main body capable of unfolding toward the left side and the right side and folding, and a tool box arranged on the ladder main body. The work ladder with the tool box capable of lifting is characterized in that the tool box is restrained on the top of the ladder main body and can slide up and down, a lifting locking structure is formed between the tool box and the ladder main body, and the tool box can be locked at the height by the lifting locking structure after the fact that the tool box is lifted to the required height. The tool box is used for storing various tools; in addition, the tool box is restrained on the top of the ladder main body and can slide up and down, the lifting locking structure is formed between the tool box and the ladder main body, the tool box is lifted to the suitable height and the maintenance personnel can take the tools conveniently without bending down or squatting for performing the maintenance work while standing on the work ladder, and the use of the work ladder is more humanized.

Publication: [CN 104594790 A 20150506](#)

Applicant: NINGBO XINGFU TOOLS CO LTD

Inventor: WANG WANXING

Prio:

Appl.No: CN201510040558

IPC: E06C 1/18

CN 104594790 A 说明书附图 1/8页

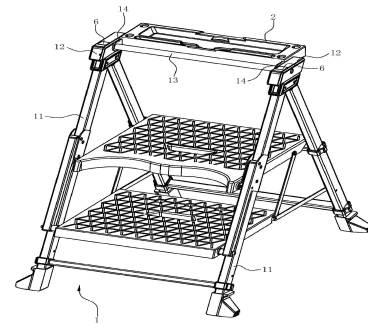


图 1

9

Hydraulic engineering detachable crawling ladder and manufacture method thereof

The invention discloses a hydraulic engineering detachable crawling ladder and a manufacture method thereof. The hydraulic engineering detachable crawling ladder comprises a first prefabricated steel plate, a second prefabricated steel plate, a first contention piece, a second contention piece and a pedal, wherein the first prefabricated steel plate and the second prefabricated steel plate are parallel to each other and are embedded in the wall; one end of the first contention piece is respectively fixed on the first prefabricated steel plate and the second prefabricated steel plate; the first contention piece is exposed from the wall; two ends of the second contention piece are respectively provided with the external thread with opposite screwing direction; the other end of the first contention piece is connected with one end of the second contention piece in a detachable mode; the other end of the second contention piece is connected with the pedal in a detachable mode. The first contention piece is respectively fixed on the first prefabricated steel plate and the second prefabricated steel plate, and connected with the second contention piece and the pedal, so that the direct contact between the pedal and the wall is avoided, and the wall falling problem caused by the existing crawling ladder can be avoided.

Publication: [CN 104594791 A 20150506](#)

Applicant: ZHANG CHAOLI

Inventor: GAO XINGFU; KANG GUANGPENG; WEI CAIHUA; WU HUAICHENG; XIE WEI; ZHANG CHAOLI

Prio:

Appl.No: CN201510036376

CN 104594791 A 说明书附图 1/2页

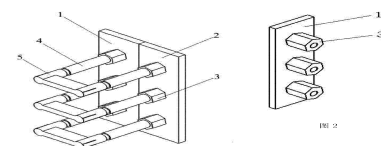


图 1

图 2

7

IPC: E06C 1/36

Foldable mobile ladder

A related A type foldable mobile ladder comprises front wheels, revolute pairs, supporting rods, rear wheels, a chain, a handwheel and a supporting plate; the front wheels are symmetrically arranged at two sides of the bottom end of a first supporting rod; connection among the first supporting rod, a second supporting rod, a third supporting rod and a fourth supporting rod are realized respectively via a first revolute pair, a second revolute pair, a third revolute pair and a fourth revolute pair; one end of the handwheel is fixedly disposed on the supporting rods, and the handwheel is connected with the rear wheels via a two-stage transmission mechanism; and the supporting plate is arranged on the supporting rods. The foldable mobile ladder is simple in integral structure, high in practicability, convenient to manufacture and easy to popularize and use.

Publication: **CN 104594792 A 20150506**

Applicant: UNIV GUANGXI
Inventor: ZHANG ZONGZE
Prio:
Appl.No: CN201410722160
IPC: E06C 1/383

CN 104594792 A 说明书附图 1/3页

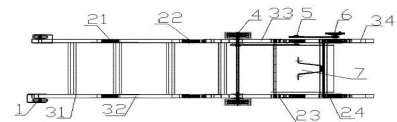


图 1

6

Simple volleyball referee chair

The invention discloses a simple volleyball referee chair. The simple volleyball referee chair comprises a support frame and a crawling ladder, wherein the upper side of the crawling ladder is articulated with the upper side of the support frame, the lower side of the crawling ladder is articulated with the articulated end of a first connecting rod, the driving end of the first connecting rod is articulated with the driving end of a second connecting rod, the articulated end of the second connecting rod is articulated with the lower side of the support frame, an overturning platform is arranged between the crawling ladder and the support frame, one end of the overturning platform is articulated with the support frame, the other end of the overturning platform is provided with a clamping groove, when the first connecting rod and the second connecting rod are pushed against each other, the clamping groove in the overturning platform overturned to be in a horizontal state is justly buckled onto a cross bar positioned at the topmost position of the crawling ladder, a roller is also arranged at the front side of the bottom end of the crawling ladder, the roller is not contacted with the ground when the volleyball referee chair is arranged horizontally, and the roller is supported on the ground when the volleyball referee chair inclines forwards. The simple volleyball referee chair has the advantages that the movement is convenient and storage does not need to occupy large space.

Publication: **CN 104594793 A 20150506**

Applicant: JIANGSU JINLING SPORTS EQUIPMENT CO LTD
Inventor: LI CHUNRONG
Prio:
Appl.No: CN201510022162
IPC: E06C 1/39

CN 104594793 A 说明书附图 1/3页

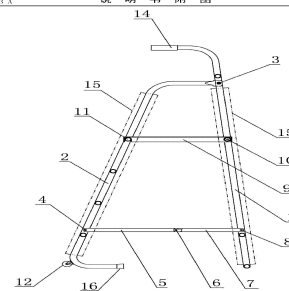


图 1

6

Work ladder as working platform

The invention relates to a work ladder used as a working platform. The work ladder as the working platform comprises a ladder assembly main body and a pedal assembly. The work ladder as the working platform is characterized in that the pedal assembly comprises at least two pedals and rear shafts used for placing the rear end of each pedal, wherein the pedal at the lowest end of the pedal assembly is a bottom pedal, the pedal above the bottom pedal is a top pedal, the rear shaft comprises a bottom rear shaft and a top rear shaft; the front part of the ladder assembly main body is rotationally provided with two assistant support rods capable of turning up and down, the front end of the bottom pedal is rotationally arranged between two assistant support rods, and the top of the ladder assembly main body is provided with a horizontal assistant shaft part used for holding the rear end of the bottom pedal; the rear end of the bottom pedal is positioned on the bottom rear shaft at the lowest end while the assistant support rod turns over downwards; the bottom pedal moves upwards to the top of the ladder assembly main body and the assistant support rod turns over upwards, and the rear end of the bottom pedal is positioned on the assistant shaft part. The pedal of the work ladder can be used as the working platform.

Publication: [CN 104594794 A 20150506](#)

Applicant: NINGBO XINGFU TOOLS CO LTD

Inventor: WANG WANXING

Prio:

Appl.No: CN201510040604

IPC: E06C 1/393

CN 104594794 A 说明书附图 1/2 页

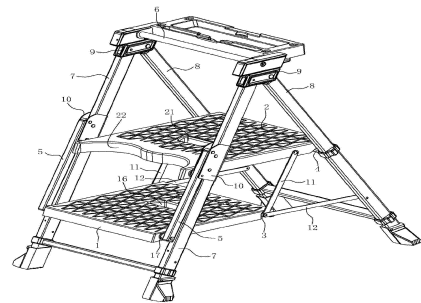


图 1

5

Anti-skid pedal for insulating ladder and corresponding insulating ladder

The invention discloses an anti-skid pedal for an insulating ladder and the corresponding insulating ladder. The anti-skid pedal comprises a pedal body for treading and a base connected at the bottom of the pedal body and fixed on a rung of the insulating ladder, wherein lug bosses are arranged on two opposite side surfaces of the pedal body and extend upwards for preventing a foot from slipping out in a left-right direction of the human body. According to the anti-skid pedal for the insulating ladder, the non-skid property of the insulating ladder is improved, a user is prevented from falling off from the insulating ladder, the potential safety hazard is eliminated and the comfort of the insulating ladder is improved; the anti-skid pedal for the insulating ladder is suitable for installation on various insulating ladders, and the insulating ladder is suitable for electrical equipment maintenance and high-altitude operation.

Publication: [CN 104594795 A 20150506](#)

Applicant: STATE GRID ANHUI PROVINCE JINGXIAN COUNTY POWER SUPPLY CO LTD; STATE GRID CORP CHINA; XUANCHENG POWER SUPPLY COMPANY OF STATE GRID ANHUI ELECTRIC POWER COMPANY

Inventor: CAO JIPING; GE XIWU; HU BIN; HU GANG; SU GUIJIANG

Prio:

Appl.No: CN201510027070

IPC: E06C 7/08

CN 104594795 A 说明书附图 1/2 页

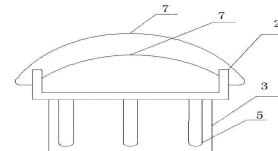


图 1

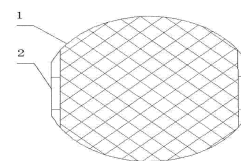


图 2

5

Hydraulic engineering overhaul crawling ladder and manufacture method thereof

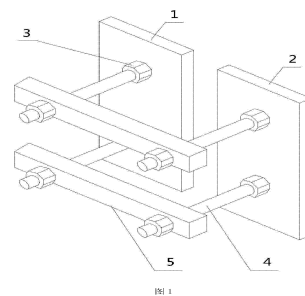
The invention discloses a hydraulic engineering overhaul crawling ladder. The hydraulic engineering overhaul crawling ladder comprises a first prefabricated steel plate, a second prefabricated steel plate, a first contention piece, a second contention piece and a pedal, wherein the first prefabricated steel plate and the second prefabricated steel plate are located in the same plane and the first prefabricated steel plate, the second prefabricated steel plate and the first contention piece are embedded in the wall; one end of the first contention piece is respectively fixed on the first prefabricated steel plate and the second prefabricated steel plate; two ends of the second contention piece are respectively provided with the external thread; the pedal is provided with two holes through which the second contention piece can pass; the other end of the first contention piece is connected with one end of the second contention piece in a detachable mode; the other end of the second contention piece is connected with the pedal in a detachable mode. Two ends of the second contention piece are respectively provided with the external thread, and connected with the first contention piece and the pedal in a detachable mode, so that the crawling ladder is quickly mounted and dismantled and convenient to overhaul.

Publication: [CN 104594796 A 20150506](#)

Applicant: ZHANG CHAOLI
Inventor: GAO XINGFU; KANG GUANGPENG; WEI CAIHUA; WU HUAICHENG; XIE WEI; ZHANG CHAOLI

Prio:
Appl.No: CN201510036353
IPC: E06C 9/02

CN 104594796 A 说明书附图 1/1 页



7

Hydraulic engineering detachable U-shaped crawling ladder and manufacture method thereof

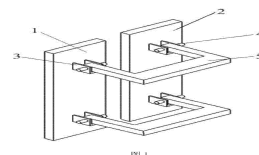
The invention discloses a hydraulic engineering detachable U-shaped crawling ladder and a manufacture method thereof. The hydraulic engineering detachable U-shaped crawling ladder comprises a first prefabricated steel plate, a second prefabricated steel plate, a first contention piece, a second contention piece and a pedal, wherein the first prefabricated steel plate and the second prefabricated steel plate are parallel to each other and are embedded in the wall; one end of the first contention piece is respectively fixed on the first prefabricated steel plate and the second prefabricated steel plate; the first contention piece is exposed from the wall; the other end of the first contention piece is provided with an opening the nick of which is upward, one end of the pedal is overlapped in the nick; the second contention piece being parallel to the wall vertically penetrates through the first contention piece and the pedal and the pedal can surround the second contention piece to turn over upwards. The hydraulic engineering detachable U-shaped crawling ladder is simple in design, practical in use and easy to realize. The first contention piece is connected with the pedal through the second contention piece bolt, the crawling ladder is convenient to dismount and maintain.

Publication: [CN 104594797 A 20150506](#)

Applicant: ZHANG CHAOLI
Inventor: GAO XINGFU; KANG GUANGPENG; WEI CAIHUA; WU HUAICHENG; XIE WEI; ZHANG CHAOLI

Prio:
Appl.No: CN201510036355

CN 104594797 A 说明书附图 1/1 页



7

IPC: E06C 9/02

Quick disassembling hydraulic engineering overhaul crawling ladder and manufacture method thereof

The invention discloses a quick disassembling hydraulic engineering overhaul crawling ladder. The quick disassembling hydraulic engineering overhaul crawling ladder comprises a first prefabricated steel plate, a second prefabricated steel plate, a first contention piece, a second contention piece, a third contention piece, bolts and a pedal, wherein the first prefabricated steel plate and the second prefabricated steel plate are located in the same plane, and the first prefabricated steel plate, the second prefabricated steel plate and the first contention piece are embedded in the wall; one end of the first contention piece is respectively fixed on the first prefabricated steel plate and the second prefabricated steel plate; two ends of the second contention piece are respectively opened with the external thread; one end of the third contention piece is provided with the external thread while the other end of the third contention piece is provided with a positioning hole; the pedal 7 is provided with a bolt pin and two holes through which the second contention piece and the third contention piece can pass; the other end of the first contention piece is connected with one end of each of the second contention piece and the third contention piece in a detachable mode; the other end of the second contention piece is connected with the pedal in a detachable mode; one end of the third contention piece is connected with the pedal through the bolt. The crawling ladder is characterized in that the crawling ladder is quickly mounted and dismantled and convenient to overhaul.

Publication: [CN 104594798 A 20150506](#)

Applicant: ZHANG CHAOLI

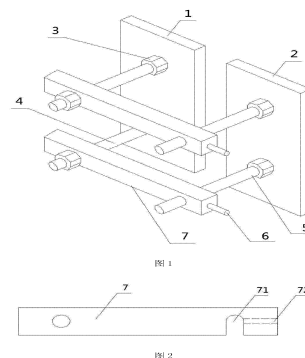
Inventor: GAO XINGFU; KANG GUANGPENG; WEI CAIHUA; WU HUAICHENG; XIE WEI; ZHANG CHAOLI

Prio:

Appl.No: CN201510036354

IPC: E06C 9/04

CN 104594798 A 说明书附图 1/2页



Detachable crawling ladder for tower device and construction method thereof

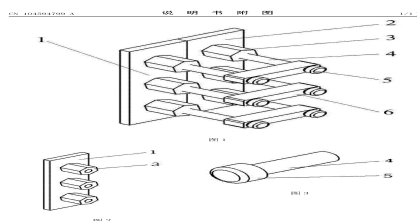
The application discloses a detachable crawling ladder for a tower device and a construction method thereof. The detachable crawling ladder for the tower device comprises a first prefabricated steel plate, a second prefabricated steel plate, first connecting parts, second connecting parts and foot plates. The construction method of the detachable crawling ladder for the tower device includes the steps of prefabricating the first prefabricated steel plate and the second prefabricated steel plate, pre-burying the prefabricated steel plates into a wall body of a tower body, fixedly arranging multiple groups of first connecting parts and the like. The structure design is simple and practical, and easy to implement. The second connecting parts are connected with the first connecting parts through screw threads, so as to be convenient for the foot plates and the second connecting parts to be together detached from the first connecting parts; the design of plugging heads on the second connecting parts can realize a fact that the foot plates are singly detached from the second connection parts so as to achieve various detachable modes.

Publication: [CN 104594799 A 20150506](#)

Applicant: NANTONG SUTONG SEPARATION ENGINEERING & TECHNOLOGY CO LTD

Inventor: GE HONGJUN; QIU YUMEI; SHA JIAMIN; XU LIMEI; YANG WEIDONG

Prio:



Appl.No: CN201410682867
IPC: E06C 9/06

Method for installing vacuum insulated glass (VIG) window unit in existing window sash and method for replacing a non- vacuum insulated glass with a vacuum insulated glass

A method and apparatus for enabling a vacuum insulated glass (VIG) window to be substituted for and/or replace a non-vacuum insulated glass window in an existing window assembly frame structure is disclosed. A width of a VIG window is substantially less than that of existing non-vacuum insulated glass (IG) windows (e.g., a double, triple or quad pane windows). A replacement stop is provided that compensates for the difference between the larger width of a non- vacuum insulated glass window and a VIG window which has a smaller width, thereby enabling the VIG window to be easily and cost effectively installed in existing window configurations originally intended for non-vacuum insulated glass windows. The replacement stop may be used in the manufacture of VIG window units and/or to replace existing and/or already installed non-vacuum insulated glass windows.

Publication: **CN 104603384 A 20150506**

Applicant: GUARDIAN INDUSTRIES
Inventor: JONES JEFFREY A
Prio: US 20120705 201213541840, US 20130624 2013047227
Appl.No: CN201380046204
IPC: E06B 3/58

CN 104603384 A 说明书附图 1/3页

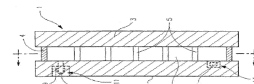


图 1(现有技术)

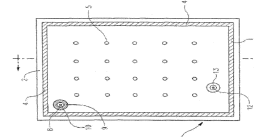


图 2(现有技术)

11

Security window applied to single window

The present invention relates to a security window applied to a single window. The present invention is applied to a previously installed single window so as to block an open space of the window and prevent entry by strangers and a person inside from having a falling accident. The security window can be separated from within a room as necessary, and thus movement of an object or emergency escape is facilitated. Meanwhile, the security window cannot be separated from outside the room, and thus intrusion by persons with malicious intent can be prevented from the onset.

Publication: **CN 104603385 A 20150506**

Applicant: LI NAHENG
Inventor: LI NAHENG
Prio: KR 20120830 20120095330, KR 20130828 20130102071, KR 20130830 2013007797
Appl.No: CN201380045394
IPC: E06B 5/11

CN 104603385 A 说明书附图 1/12页

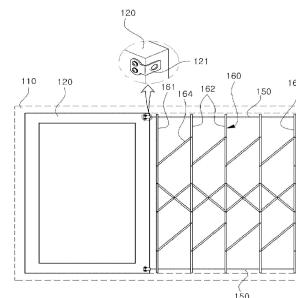


图 1

14

Expandable data center with movable wall

A data center includes a floor that supports rack computing systems and walls that enclose a computing room. The computing room holds the rack computing systems. One of the walls is a movable wall. The movable wall translates relative to the other walls to increase or decrease the size of the computing room.

Publication: [CN 104603386 A 20150506](#)

Applicant: AMAZON TECH INC
Inventor: CZAMARA MICHAEL P; GARDNER BROCK R
Prio: US 20120904 201213603341, US 20120904 201213603348, US 20130904 2013058006
Appl.No: CN201380046228
IPC: E06B 9/04

CN 104603386 A 说明书附图 1/10 页

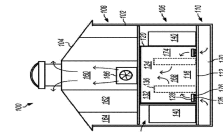
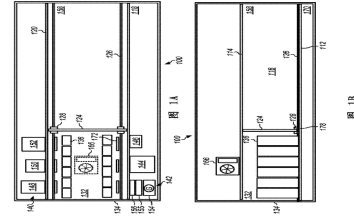


图 13

17

Pleated screen

A pleated screen is provided with: a head box (1); a screen (2) which is suspended from and supported by the head box (1) and which can be folded in a zigzag shape extending in the vertical direction; a lifting and lowering cord (5) which is suspended from and supported by the head box (1) and which lifts and lowers the screen (2); and a pitch retaining cord (6) which is suspended from and supported by the head box (1) and which retains the distance between the folds of the screen (2) at a set distance. The lifting and lowering cord (5) and the pitch retaining cord (6) are suspended and supported separately at the front and rear of the screen (2). Retaining sections (7) are provided to the pitch retaining cord (6) and penetrate through the screen (2), and the lifting and lowering cord (5) is inserted through the retaining sections (7).

Publication: [CN 104603387 A 20150506](#)

Applicant: TACHIKAWA BLIND MFG
Inventor: EBATO TAKENOBU; TACHIKAWA KOI; TAKAYAMA YOSHIHIRO
Prio: JP 20120907 2012197093, JP 20121031 2012240467, JP 20130904 2013073768, JP 20130410 2013082504
Appl.No: CN201380046539
IPC: E06B 9/262

CN 104603387 A 说明书附图 1/23 页

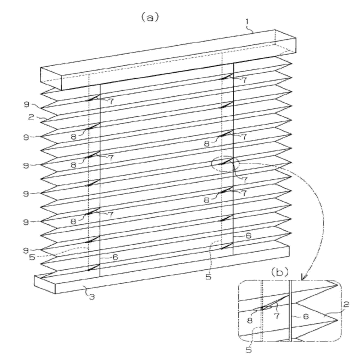


图 1

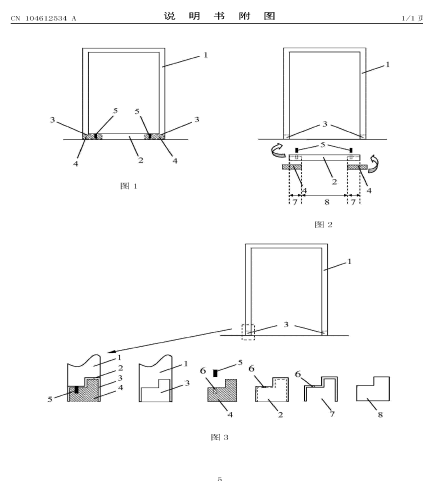
21

Door frame structure with detachable doorsill

The invention provides a door frame structure with a detachable doorsill. The door frame structure comprises a door frame, the doorsill, inserting holes, inserting pieces and set screws. The doorsill and the inserting pieces can be dismantled from the door frame or mounted on the door frame, the inserting holes which are completely the same as the cross section of a cavity in the doorsill in size and specification are formed in the doorsill positions of the bottom ends on the left side and the right side of the door frame, the inserting pieces are rightly inserted into the inserting holes, the doorsill is mounted on the inserting pieces and is clamped, and the doorsill can be locked by the set screws. The door frame structure with the detachable doorsill has the advantages that the doorsill of the structure can be quickly dismantled and mounted according to needs, and is convenient, practical and particularly suitable for public places such as offices, laboratories, classrooms and the like. At ordinary times, the doorsill is in a mounting state and achieves a normal safety and reinforcing effect. When a floor is cleaned, a cart is used for conveying heavy objects and other special demands need to be met, the doorsill can be dismantled to enable the floors in a room and outside the room to be communicated without obstacles, cleaned objects are directly cleaned out of the room, or the heavy objects can be stably pushed into the room by the cart.

Publication: [CN 104612534 A 20150513](#)

Applicant: UNIV TIANJIN CHENGJIAN
Inventor: CAO LIHUI; YANG GUANGWU
Prio:
Appl.No: CN201510012493
IPC: E06B 1/52

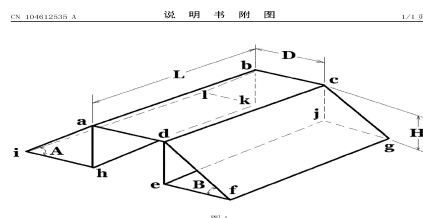


Transitional slope rack of doorsill

A transitional slope rack of a doorsill is characterized in that the outer contour of a cross section of the slope rack has a trapezoidal structure; the top, the bottom and the height of the trapezoidal structure form a rectangular inner contour; the lower side of the rectangular inner contour is an opening; closed structures with triangular cross sections are respectively formed on two sides of the rectangular inner contour; the top of the trapezoidal structure is slightly greater than the width of the doorsill; the height of the trapezoidal structure is slightly greater than the height of the doorsill; the length of the slope rack is not greater than that of the doorsill; and the opening of the open rectangular inner contour downwards sleeves the doorsill. The transitional slope rack of the doorsill has the advantages that objects with rollers can climb over the doorsill quite stably and easily, and the doorsill cannot be extruded or damaged.

Publication: [CN 104612535 A 20150513](#)

Applicant: JIANGXI RARE EARTH & RARE MET
Inventor: FENG LAN; LI CHENGDE; XU GUOQING
Prio:
Appl.No: CN201510084898
IPC: E06B 1/70



Honeycomb aluminum profile

The invention discloses a honeycomb aluminum profile which comprises an aluminum profile shell. The shell is provided with an inner cavity. The left side and the right side of the inner cavity are each provided with a hard batten in an interference fit mode. A honeycomb paper layer is arranged between the two hard battens in a sandwiched mode. After being optimized, the hard battens are prepared by pine materials. The honeycomb paper layer and the hard battens are adhesively connected. The honeycomb aluminum profile has the advantage of having the good heat insulation performance and handiness performance.

Publication: [CN 104612536 A 20150513](#)

Applicant: TAIZHOU HAILING HYDRAULIC MACHINERY CO LTD

Inventor: DING KEFANG

Prio:

Appl.No: CN201310538395

IPC: E06B 3/263

CN 104612536 A 说明书附图 1/1页

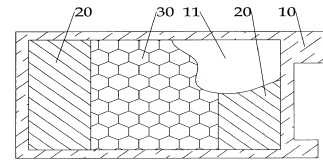


图 1

6

Single-leaf sectional material vertical-hinged door

The invention discloses a single-leaf sectional material vertical-hinged door. The single-leaf sectional material vertical-hinged door comprises an upper door body unit and a lower door body unit. The top layer of the upper door body unit is arranged in a top layer framework connecting structure, two lateral surfaces of the upper door body unit are both arranged at a first lateral surface framework connecting structure, and the bottom edge is arranged at the upper end inside a middle framework connecting structure; the top layer of the lower door body unit is arranged at the lower end in a middle framework connecting structure, two lateral surfaces of the lower door body unit are arranged at a second lateral surface framework connecting structure, and the bottom edge is arranged in a bottom layer framework connecting structure. The single-leaf sectional material vertical-hinged door is simple in structure and symmetrical, the symmetrical sectional materials simplify the installation structure of the vertical-hinged door, and the vertical-hinged door is easy to operate, mount and dismount, high in installation stability and made of glass or wood. The single-leaf sectional material vertical-hinged door largely reduces the production cost, is economical, and is good in sound insulation, heat insulation and water insulation effects.

Publication: [CN 104612537 A 20150513](#)

Applicant: ANHUI GAODE ALUMINUM CO LTD

Inventor: HUANG LIN

Prio:

Appl.No: CN201410761721

IPC: E06B 3/263

CN 104612537 A 说明书附图 1/3页

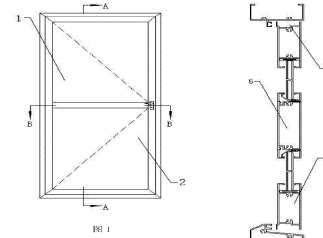


图 1

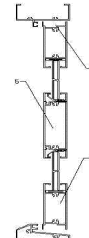


图 2

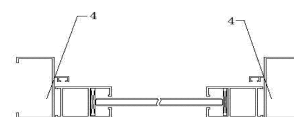


图 3

6

Composite door and window sectional material with combination of internal and external metal sectional materials and middle integral heat-insulation sectional materials

The invention provides a composite door and window sectional material with a combination of internal and external metal sectional materials and middle integral heat-insulation sectional materials. An air cavity is formed in each middle integral heat-insulation sectional material; vertical ribs are arranged on two sides of each air cavity; transverse ribs are arranged on the top and the bottom of each air cavity; an internal trapezoidal positioning groove which has the small inside and the large outside is formed in the external middle portion of the vertical rib on the inner side of each air cavity; an external trapezoidal positioning groove which has the small inside and the large outside is formed in the external middle portion of the vertical rib on the outer side of each air cavity; a trapezoidal positioning projection which has the small outside and the large inside is arranged in the middle of each internal and external metal sectional material; an upper pressure plate and a lower pressure plate are respectively arranged on the top and the bottom of each internal and external metal sectional material; the trapezoidal positioning projections, which have the large insides and the small outsides, of the internal and external metal sectional materials are respectively inserted in the trapezoidal positioning grooves, which have the small insides and the large outsides, in the external middle portions of the vertical ribs of the middle integral heat-insulation sectional materials; the upper pressure of each internal and external metal sectional material which is subjected to plastic deformation is pressed on an upper V-shaped oblique plane of the corresponding upper projection or is pressed in the corresponding inner upper positioning groove; the lower pressure plate of each internal and external metal sectional material which is subjected to plastic deformation is pressed on a lower V-shaped oblique plane of a corresponding lower projection or is pressed in a corresponding inner lower positioning groove; and the inner sides of the internal and external metal sectional materials and the inner sides of the middle integral heat-insulation sectional materials are combined integrally.

Publication: [CN 104612538 A 20150513](#)

Applicant: WANG GUANGWU
Inventor: WANG GUANGWU
Prio: CN 20141118 201420687023
Appl.No: CN201510085803
IPC: E06B 3/263

CN 104612538 A 说明书附图 1/8 页

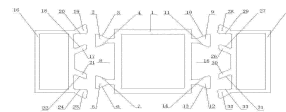


图 1

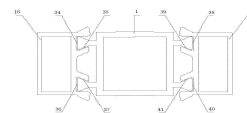


图 2

19

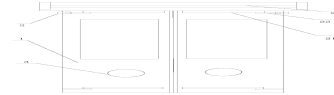
BRT outwards-swinging type double-body vehicle door

The invention relates to a BRT outwards-swinging type double-body vehicle door. The BRT outwards-swinging type double-body vehicle door comprises vehicle door bodies and movement devices, wherein the corresponding movement devices are arranged on the upper portion and the lower portion of each vehicle door body respectively, each movement device is composed of a limiting rod, a swing arm and a rotating shaft, the vehicle door bodies are connected with the movement devices through the swing arms, the swing arms are hinged to the rotating shafts, and the limiting rods are connected with the rotating shafts. The double-body vehicle door is opened outwards, no space in a vehicle is occupied, the double-body vehicle door can be conveniently opened and closed without colliding with passengers, and safety of the passengers is improved. The BRT outwards-swinging type double-body vehicle door is safe and convenient to use and has high applicability.

Publication: [CN 104612539 A 20150513](#)

Applicant: CHANGZHOU KANGFENG AUTO PART CO LTD
Inventor: CAO JUN

CN 104612539 A 说明书附图 1/8 页



19

Prio:
Appl.No: CN201410669583
IPC: E06B 3/36

Dust haze preventing energy-saving window

The invention relates to a dust haze preventing energy-saving window, and belongs to the technical field of building. The dust haze preventing energy-saving window comprises a fixed sash and an opening sash, wherein the opening sash is arranged on any side edge of the upper side edge, the lower side edge, the left side edge and the right side edge of the fixed sash and is in a narrow-strip shape. The opening sash is a ventilating sash and comprises an inner window body and an outer window body, the outer window body is a glass window, the window face of the inner window body is formed by sandwiching a filtering cotton layer in a double-layer steel wire gauze, the inner window body is opened inwards, and the outer window body is opened outwards. When the outer window body of the opening sash is opened, and the inner window body of the opening sash is closed, the heat preservation performance of the energy-saving window is equivalent to that of a double-layer glass window, and while the requirement for ventilation of a room is met, it can be ensured that indoor temperature does not fluctuate substantially, which is beneficial to health of people and plants in the room and heat preservation and energy conservation of a building. The dust haze harm is effectively reduced, and dust and mosquitoes are prevented from entering the room. The ventilating performance can fully meet the requirement for ventilation of the room, the ventilation property is 300 mm/s, and therefore the ventilating effect is excellent.

Publication: [CN 104612540 A 20150513](#)

Applicant: UNIV SHENYANG JIANZHU
Inventor: CHEN BOCHAO; LI HAO; LIU YUNXUE
Prio:
Appl.No: CN201510039277
IPC: E06B 3/36

CN 104612540 A 说明书附图 1/2页

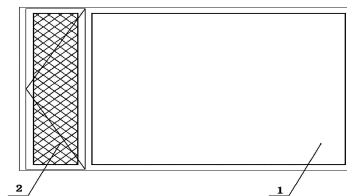


图 1

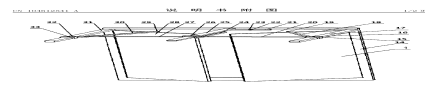
6

Single-power-source automatically opened, closed and locked double door controlled by crank-slider mechanism

A single-power-source automatically opened, closed and locked double door controlled by a crank-slider mechanism is composed of a right door body, a first shaft, a first connection bridge, a first spring, a first fixed rod, a connecting rope, a fixed pulley, a first fixed disc, a second shaft, a second connection bridge, a second spring, a second fixed rod, a second fixed disc, a door frame, a first slider, a first hinge hole, a first guide rail, a first joint lever, a second hinge hole, a first connecting rod, a lever, a rotation shaft, a fixed block, an ejector rod, a second guide rail, a second slider, a second connecting rod, a left door body, a third hinge hole, a second joint lever, a third guide rail, a third slider and a fourth hinge hole. Compared with an existing double door, the single-power-source double door can achieve opening and closing of the door and a lock through automatic control, the operation is easier and more convenient when controlling is performed, the single-power-source double door can be opened and closed both inwards and outwards, and therefore the theftproof performance is better; meanwhile, the single-power-source double door can be made of materials such as wood, metal and glass, and therefore the door has the advantages of low cost, aesthetic property, practicability and safety.

Publication: [CN 104612541 A 20150513](#)

Applicant: GUANGXI PINGGUO ALUMINUM ANFU DOOR
INDUSTRY CO LTD
Inventor: HUANG JIAFENG



6

Prio:
Appl.No: CN201510055731
IPC: E06B 3/36

Automatic single leaf door controlled by single power source and provided with safe clutch

The invention discloses an automatic single leaf door controlled by a single power source and provided with a safe clutch. The automatic single leaf door concretely comprises a door sheet, a first shaft, a first connecting bridge, a first spring, a first fixed rod, a connecting rope, a fixed pulley, a first fixed disc, a second shaft, a second connecting bridge, a second spring, a second fixed rod, a second fixed disc, a door frame, a locking mechanism, a cylindrical cam, a third shaft, a fourth shaft, a third spring, the safe clutch, a third fixed rod, a fourth spring, a third fixed disc and an ejecting rod. Compared with an existing single leaf door, the door can be opened and closed through automatic control, locking and unlocking can be achieved through automatic control, and the single leaf door is easier and more convenient to control and operate, low in price, capable of being opened and closed inwards or outwards and better in anti-theft performance. Meanwhile, the automatic single leaf door is made of wood or metal or glass or other materials, and achieves attractiveness, practicability and safety.

Publication: [CN 104612542 A 20150513](#)

Applicant: GUANGXI PINGGUO ALUMINUM ANFU DOOR
INDUSTRY CO LTD

Inventor: HUANG JIAFENG

Prio:

Appl.No: CN201510055755

IPC: E06B 3/36

CN 104612542 A 说明书附图 1/13页

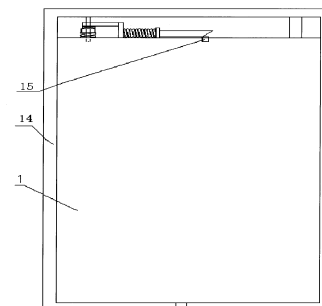


图 1

7

Automatic single leaf door controlled by single power source and provided with buffering locking and unlocking device

The invention discloses an automatic single leaf door controlled by a single power source and provided with a buffering locking and unlocking device. The automatic single leaf door concretely comprises a door body, a first shaft, a first connecting bridge, a first spring, a first fixed rod, a connecting rope, a fixed pulley, a first fixed disc, a second shaft, a second connecting bridge, a second spring, a second fixed rod, a second fixed disc, a door frame, a rotating disc, a rotating shaft, a motor, a pushing block, a fixed stop dog, a lock pressing rod, a locking mechanism, a third spring, a retractable rod, a door pushing block and a wedge-shaped block. Compared with an existing single leaf door, the door can be opened and closed through automatic control, locking and unlocking can be achieved through automatic control, and the single leaf door is easier and more convenient to control and operate and better in anti-theft performance because the single leaf door can be opened and closed inwards or outwards. Meanwhile, the automatic single leaf door is made of wood or metal or glass or other materials, and therefore the price is low, and attractiveness, practicability and safety are achieved. In addition, the door achieves the automation performance, in this way, the value of the door is substantially increased, and the door has good market prospects.

Publication: [CN 104612543 A 20150513](#)

Applicant: GUANGXI PINGGUO ALUMINUM ANFU DOOR
INDUSTRY CO LTD

Inventor: HUANG JIAFENG

Prio:

Appl.No: CN201510055775

CN 104612543 A 说明书附图 1/13页

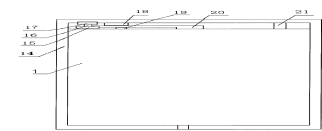


图 1

7

IPC: E06B 3/36

Single-power-source control double door capable of achieving automatic locking and unlocking and door opening and closing

A single-power-source control double door capable of achieving automatic locking and unlocking and door opening and closing concretely comprises a driving shaft, a driving chain wheel, a door frame, a left door, a chain, a right door, a driven long chain, a driven shaft, a direction-changing wheel, a shaft, Z-type sliding blocks, a stopping block, locking mechanisms, clamping blocks, a rotating shaft, a lever, a stopping shaft, a narrow guide rail, a wide guide rail, sliding plates, fixed blocks, springs, locking rods, hinged holes and long pins. Compared with an existing single leaf door, closing and locking can be performed at the same time, the double door is easier and more convenient to operate in the control process and better in anti-theft performance because the double door can be opened and closed inwards or outwards. Meanwhile, the double door is made of wood or metal or glass or other materials, and therefore the price is low, and attractiveness, practicability and safety are achieved. In addition, the door achieves the automation performance, in this way, the value of the door is substantially increased, and the door has good market prospects.

Publication: **CN 104612544 A 20150513**

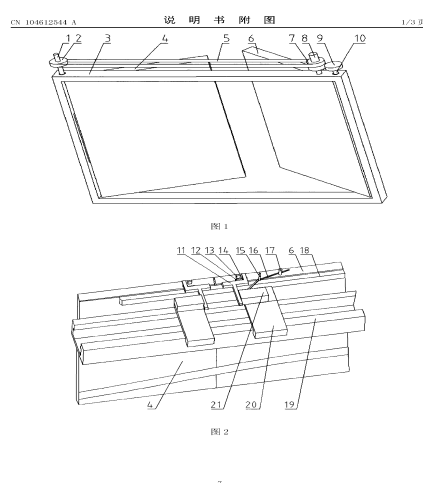
Applicant: GUANGXI PINGGUO ALUMINUM ANFU DOOR INDUSTRY CO LTD

Inventor: HUANG JIAFENG

Prio:

Appl.No: CN201510055805

IPC: E06B 3/36



Single-power-source automatic double door controlled by crank double-slider mechanism

A single-power-source automatic double door controlled by a crank-slider mechanism is composed of a right door body, a first shaft, a first connection bridge, a first spring, a first fixed rod, a connecting rope, a fixed pulley, a first fixed disk, a second shaft, a second connection bridge, a second spring, a second fixed rod, a second fixed disk, a door frame, a first pin shaft, a first joint lever, a second pin shaft, a second joint lever, a first slider, a third pin shaft, a third joint lever, a second slider, a fourth pin shaft, a rail, a fourth joint lever, a fifth pin shaft, a third slider, a fifth joint lever, a left door body, a sixth pin shaft, a sixth joint lever, a seventh pin shaft, a lever, a rotation shaft, a fixed block and an ejector rod. Compared with an existing single door, the single-power-source automatic double door can achieve opening and closing of the doors and a lock through automatic control, the operation is easier and more convenient when controlling is performed, the single-action-source automatic double-leave door can be opened and closed both inwards and outwards, and therefore the theftproof performance is better; meanwhile, the single-power-source automatic double door can be made of materials such as wood, metal and glass, and therefore the double door has the advantages of low cost, aesthetic property, practicability and safety.

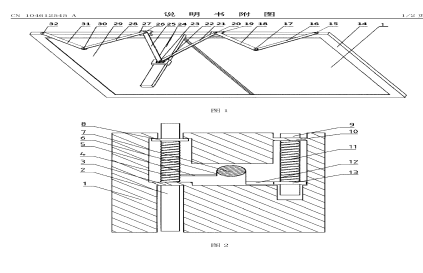
Publication: **CN 104612545 A 20150513**

Applicant: GUANGXI PINGGUO ALUMINUM ANFU DOOR INDUSTRY CO LTD

Inventor: HUANG JIAFENG

Prio:

Appl.No: CN201510055832



IPC: E06B 3/36

Single leaf door achieving single-power-source control and automatic locking and unlocking and door opening and closing through clutches

A single leaf door achieving single-power-source control and automatic locking and unlocking and door opening and closing through clutches is composed of a door sheet, a first shaft, a first connecting bridge, a first spring, a first fixed rod, a connecting rope, a fixed pulley, a first fixed disc, a second shaft, a second connecting bridge, a second spring, a second fixed rod, a second fixed disc, the first electromagnetic clutch, a door frame, a poking rod, the second electromagnetic clutch, a first fixed gear, a third shaft, a motor, a fourth shaft, an idle wheel, a fifth shaft, a second fixed gear, the third electromagnetic clutch, the fourth electromagnetic clutch, a locking mechanism and the fifth electromagnetic clutch. Compared with an existing single leaf door, the door can be opened and closed through automatic control, locking and unlocking can be achieved through automatic control, and the single leaf door is easier and more convenient to control and operate and better in anti-theft performance because the single leaf door can be opened and closed inwards or outwards. Meanwhile, the automatic single leaf door is made of wood or metal or glass or other materials, and therefore the price is low, and attractiveness, practicability and safety are achieved.

Publication: [CN 104612546 A 20150513](#)

Applicant: GUANGXI PINGGUO ALUMINUM ANFU DOOR INDUSTRY CO LTD

Inventor: HUANG JIAFENG

Prio:

Appl.No: CN201510055881

IPC: E06B 3/36

CN 104612546 A 说明书附图 1/13页

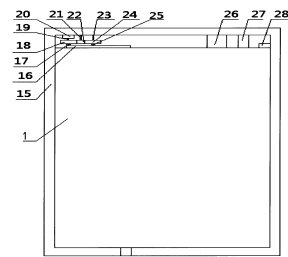


图 1

7

Window glass lifting system

The invention discloses a window glass lifting system. The window glass lifting system comprises window glass, a glass lifter and two parallel guide rails. According to the window glass lifting system, the window glass is arranged between the two parallel guide rails, the window glass is designed to be of a curved face structure, meanwhile the trajectories of the guide rails are curves, and the trajectories of the guide rails and the window glass are located on the same curved face, so that it is guaranteed that the window glass of the curved face structure is attractive in modeling, the requirements for automobile profile and comfort of modern people are met, meanwhile the bent gradient of the window glass is matched with the guide rails on the two sides of the window glass, the window glass can be made to slide smoothly in the two parallel guide rails under the pushing action of the glass lifter, the phenomena that it is difficult for the window glass to lift, the window glass is stuck, the guide rails are worn, and a window generates noises due to guide rail deviation between the window glass and the guide rails are avoided, and the comfort in using of the window is improved.

Publication: [CN 104612547 A 20150513](#)

Applicant: CHERY AUTOMOBILE CO LTD

Inventor: SHI XIFANG; TAN JUN; WANG QINXIN

Prio:

Appl.No: CN201510009243

CN 104612547 A 说明书附图 1/13页

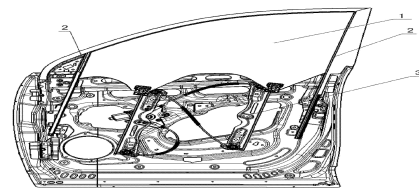


图 1

6

IPC: E06B 3/44

Hand-lifting door structure

The invention relates to a hand-lifting door structure. The hand-lifting door structure comprises a door frame and a door plank. The door frame is provided with two door columns and a beam connecting the door columns. The door plank is provided with a handle. Vertical angle iron is fixedly connected to the outer sides of the door columns in the length extending direction of the door columns. One side wall of the angle iron is fixedly connected with the corresponding door column, and a gap is formed between the other side wall of the angle iron and the corresponding door column and movably contains the lifting door plank. Pulleys are arranged at the top ends of the door columns respectively and are provided with slip ropes in a matched mode, one end of each slip rope vertically droops and is fixedly connected with the door plank, the other end of each slip rope is provided with a balancing weight, and the weight of the door plank is equal to the sum of the weights of the balance weights. The angle iron is provided with limiting grooves, the door plank is provided with limiting blocks capable of horizontally sliding along the outer surface of the door plank, and the limiting blocks are in movable fit with the limiting grooves. The side, close to the balancing weight, of each door column is provided with a movable groove, and locking parts are arranged at the bottoms of the movable grooves. The hand-lifting structure is compact and low in cost, and meanwhile the ascending and descending safety of a hand-lifting door is guaranteed.

Publication: **CN 104612548 A 20150513**

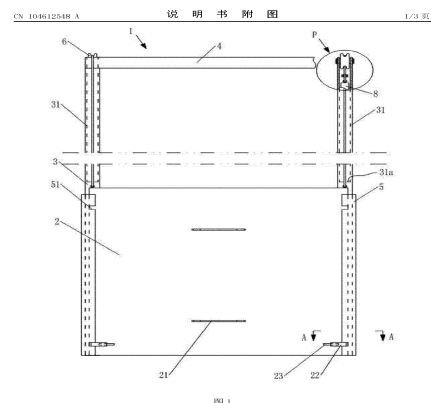
Applicant: WUXI KANGHUI MACHINE BUILDING

Inventor: YANG FUKANG

Prio:

Appl.No: CN201310536221

IPC: E06B 3/46



Door control system of intelligent building with V-shaped lock sliding block

A door control system of an intelligent building with a V-shaped lock sliding block comprises a controller and an automatic slide door. The controller is used for controlling the automatic slide door to be pushed, pulled and locked, the automatic slide door comprises a door plate piece (1), an upper guide rail piece (2) and a lower guide rail piece (3), the upper edge and the lower edge of the door plate piece (1) are each provided with two push-pull driving gears (4 and 5), each of the two push-pull driving gears (4 and 5) on each edge is fixedly connected with a belt wheel (41), the belt wheels (41) are connected through a transmission belt (6), and one of the two push-pull driving gears (4 and 5) on each edge is connected with a push-pull driving motor.

Publication: **CN 104612549 A 20150513**

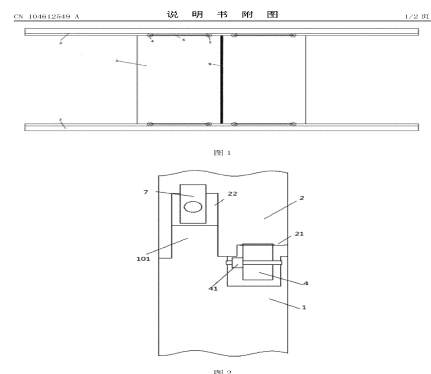
Applicant: QIAN HONGXIA

Inventor: QIAN HONGXIA

Prio:

Appl.No: CN201510032171

IPC: E06B 3/46



Heavy folding type automatic partition door

The invention discloses a heavy folding type automatic partition door. The heavy folding type automatic partition door comprises a door machine beam, a motor drive system, a first driven synchronous wheel, a plurality of movement door leaves, a plurality of pulley assemblies, a plurality of upper guide rails, a first variable cross-section curved guide rail, a plurality of first connecting plates, a lower guide rail and a plurality of lower guide wheels. The door machine beam comprises a connection mounting plate and double rails, and the movement door leaves are connected with the pulley assemblies in a screw thread mode. According to the heavy folding type automatic partition door, the pulley assemblies are connected with the movement door leaves in the screw thread mode, and thus the heights of the movement door leaves can be adjusted; the variable cross-section curved guide rail is arranged at the end of the door machine beam, impact can be prevented when the door leaves are opened or closed, and accordingly noise is avoided; the door machine beam is in a double-rail type, so that the bearing capacity of the door machine beam is greatly improved; a fixed fan at the end of the door machine beam is designed to be in an openable type, hence, the heavy folding type automatic partition door is more reasonable and user-friendly, and the using range of the heavy folding type automatic partition door is greatly widened.

Publication: [CN 104612550 A 20150513](#)

Applicant: SHENZHEN LAFAYA TECHNOLOGY CO LTD
Inventor: HUANG SHIHAI; HUANG XING; LAI JIAOJIN; LIU DIANYUE; ZHANG SUMING

Prio:
Appl.No: CN201410378976
IPC: E06B 3/48

CN 104612550 A 说明书附图 1/6页

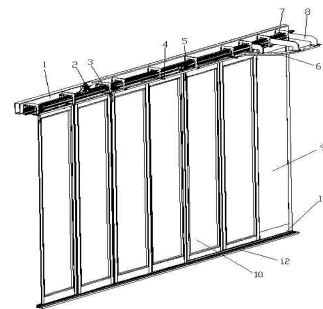


图 1

7

Folding garage door

The invention relates to a folding garage door which comprises at least two installation bases and a handle. The installation bases are evenly installed on the left side of a left door. The folding garage door comprises the left door, a middle door and a right door. The installation bases are fixedly connected to the left side of the left door. The handle is fixedly connected to the right door. The left door and the right door are each provided with a groove. The grooves are provided with at least four pulleys. The pulleys are evenly installed on the two sides of the grooves. The middle door is in an H shape. The middle door is installed in the grooves. According to the folding garage door, the middle door can be hidden into the left and right doors due to the arrangement of the grooves, the folding garage door has the folding function, the occupied space is saved, and the folding garage door is simple in structure, convenient to operate, economical and practical.

Publication: [CN 104612551 A 20150513](#)

Applicant: HEFEI MENGLONG ELECTRONIC TECHNOLOGY CO LTD
Inventor: WANG CONGJUN
Prio:
Appl.No: CN201410777502
IPC: E06B 3/48

CN 104612551 A 说明书附图 1/3页

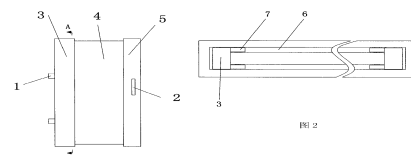


图 1

图 2

6

Multiple folding doors capable of automatically locking and opening controlled by a multi-link mechanism

The invention discloses multiple folding doors capable of automatically locking and opening controlled by a multi-link mechanism. A narrow guide rail and a wide guide rail are fixed on the top of a door frame, the top ends of the multiple folding doors are connected with the narrow guide rail and the wide guide through multiple connection rods, the narrow guide rail is provided with a Z type sliding block, a second sliding block and a first fixing block, and the second sliding block is connected with the first fixing block through a first spring; a sliding plate capable of pushing the Z type sliding block to move is arranged on the wide guide rail, a second fixing block is connected with a third fixing block through a pulling shaft, the second fixing block and the third fixing block are arranged on the sliding plate, and a first sliding block and a second spring are arranged on the pulling shaft in a sleeved mode; the multiple folding doors are sequentially hinged through hinges, a first folding door is hinged to the door frame, the multiple connection rods are sequentially hinged, each connection rod is hinged to the middle portion of the top end of the corresponding folding door, a tail folding door is hinged to a connection rod on the outer lateral side of the top end, and the connection rod is hinged to the first sliding block; the move of sliding plate is controlled by a power mechanism. According to the multiple folding doors, automatically controlling the closeness and locking of the folding doors can be realized, and the operation is more convenient and safer.

Publication: [CN 104612552 A 20150513](#)

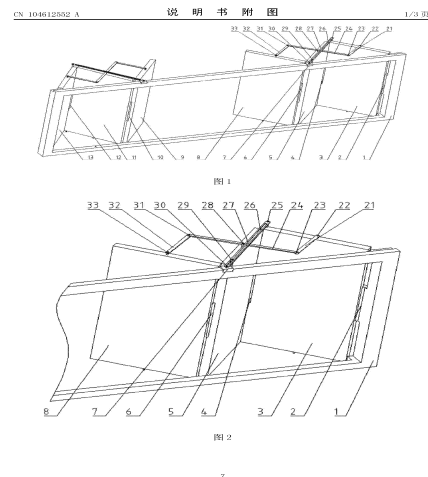
Applicant: GUANGXI PINGGUO ALUMINUM ANFU DOOR INDUSTRY CO LTD

Inventor: HUANG JIAFENG

Prio:

Appl.No: CN201410829692

IPC: E06B 3/48



Intelligent dimming three-cavity glass

The invention provides intelligent dimming three-cavity glass. The glass structurally comprises outer-piece glass, an outer-piece film tensioning frame, a thermochromic film, a composite drying division bar frame, an ultraviolet stop film, an inner-piece film tensioning frame and inner-piece glass from outside to inside. The outer-piece film tensioning frame and the inner-piece film tensioning frame are the same in structure, symmetrically arranged relative to the composite drying division bar frame and generally called as the film tensioning frames. The thermochromic film is fixed to the inner side of the outer-piece glass through the film tensioning frame composed of square box angle connectors, so that an inner dimming cavity for acquiring solar energy is formed. The ultraviolet stop film is fixed to the inner side of the inner-piece glass through the film tensioning frame of the same structure, so that an inner heat insulation cavity is formed. The composite drying division bar frame composed of inflation box angle assembling devices is sandwiched between the two film tensioning frames, an inner heat preservation cavity is formed by the composite drying division bar frame and two films, and the three inner cavities are all inflated with inert gases. The heat insulation performance is better and meanwhile sunlight is intelligently adjusted and controlled.

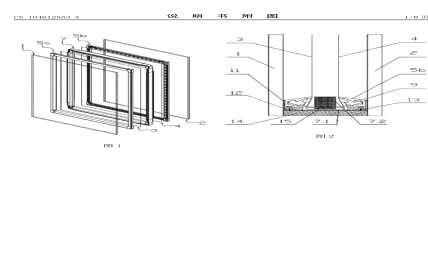
Publication: [CN 104612553 A 20150513](#)

Applicant: ENVISION WALL SHANGHAI CO LTD

Inventor: DONG XINRAN; GAO FENG; SHI DEAN

Prio:

Appl.No: CN201510044484



IPC: E06B 3/66

Polyhedral vertical hinged door

The invention discloses a polyhedral vertical hinged door. The polyhedral vertical hinged door comprises a first opaque door body, a second opaque door body and a transparent door body, wherein the periphery of the first opaque door body, the periphery of the second opaque door body and the periphery of the transparent door body are correspondingly and integrally installed in a first profile frame structure, a second profile frame structure and a third profile frame structure respectively. The top layers of the first profile frame structure and the third profile frame structure, the bottom layers of the first profile frame structure and the second profile frame structure, and the two outer side edges of a whole formed by the first profile frame structure, the second profile frame structure and the third profile frame structure are assembled in a side door leaf frame, an inner door leaf frame is arranged among the second profile frame structure, the third profile frame structure and the first profile frame structure, and an inner door leaf frame is arranged between the second profile frame structure and the third profile frame structure. The installing structure is simplified, operation is easy, the installing stability is high, the thickness of glass, or the wooden door bodies or window bodies can be adjusted at will, so that the use range is enlarged; the profile vertical hinged door is economical and practical, and the production cost is greatly reduced.

Publication: **CN 104612554 A 20150513**

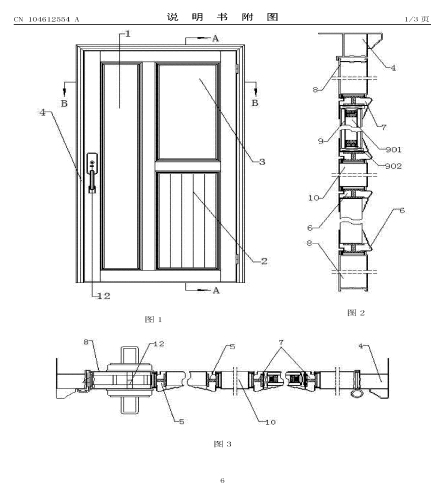
Applicant: ANHUI GAODE ALUMINUM CO LTD

Inventor: HUANG LIN

Prio:

Appl.No: CN201410761720

IPC: E06B 3/70



High-temperature-resistant crystal steel door plate

The invention discloses a high-temperature-resistant crystal steel door plate which comprises an ABS engineering plastic layer on the top, a glue layer on the middle and an aluminium alloy section layer on the bottom which are combined together. The ABS engineering plastic layer is made of acrylonitrile, butadiene and styrene. The aluminium alloy section layer is made of silicone adhesive. The ABS engineering plastic layer weighs 37%-42% of the whole high-temperature-resistant crystal steel door plate, the glue layer weighs 8%-18% of the whole high-temperature-resistant crystal steel door plate, and the aluminium alloy section layer weighs 48%-52% of the whole high-temperature-resistant crystal steel door plate. The high-temperature-resistant crystal steel door plate has the advantages of being high in strength, stiff in surface and heat resisting.

Publication: **CN 104612555 A 20150513**

Applicant: CHANGSHU BAOCHENG HARDWARE
PRODUCT CO LTD

Inventor: JIN SHAOBAI

Prio:

Appl.No: CN201410800798

IPC: E06B 3/70

Solid door

The invention discloses a solid door. The solid door comprises an upper door, a lower door and a connection bolt. The upper door comprises an upper door body and upper door connection columns. The two upper door connection columns are arranged on the two sides of the end face of the upper door body respectively and provided with bolt through holes. The lower door comprises a lower door body. The lower door body is provided with lower door connection grooves. The depth of the lower door connection grooves is smaller than or equal to half the length of the upper door body. The lower door body is provided with through holes. The through holes are communicated with the lower door connection grooves and perpendicular to the lower door connection grooves. The upper door connection columns penetrate into the lower door connection grooves. Connection bolts penetrate through the through holes and the bolt through holes to connect the upper door body and the lower door body together. The solid door has the advantages of being low in cost, capable of achieving the insect prevention and damp prevention functions, not prone to deformation and easy to carry.

Publication: [CN 104612556 A 20150513](#)

Applicant: HUZHO SHENRUI DOOR INDUSTRY CO LTD

Inventor: LI YUFEN; SHEN QIANG; WANG XIGEN

Prio:

Appl.No: CN201510030107

IPC: E06B 3/70

CN 104612556 A 说明书附图 1/3页

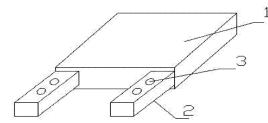


图 1

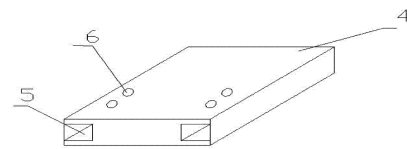


图 2

8

Hidden type door within door

The invention discloses a hidden type door within a door and relates to a security door. At present, most small door frames are inlaid in main door leaf rear boards after being subjected to edge folding, forming and splicing, the small door frames protrude much higher than main door leaf panels, and therefore appearance attractiveness is affected. The hidden type door within the door is characterized in that a small door opening is formed in the middle of a main door leaf, a rear door sheet is provided with a concave-convex-shaped pattern, a rear panel at the edge of the small door opening is concaved forwards to form a door frame groove, and the door frame groove is matched with the outer edge of a small door frame; supporting plates located between a front main door sheet and a rear main door sheet are arranged on the periphery of the small door opening; a back-flap hinge comprises a hinge body, a door leaf hinge fixing plate and a door frame hinge fixing plate; the hinge body comprises a door leaf connecting piece and a door frame connecting piece; the door leaf connecting piece is connected to the small door leaf through the door leaf hinge fixing plate, and the door frame connecting piece is connected to the small door frame through the door frame hinge fixing plate. According to the technical scheme, the squish type design is adopted, the small door frame can be exactly inlaid in the pattern groove in the rear door sheet and is matched with a reversely convex style of a main door leaf rear board, in this way, the small door frame will not be higher than the rear main door leaf rear board, and therefore integrity is high.

Publication: [CN 104612557 A 20150513](#)

Applicant: LYU XINYIN

Inventor: LYU XINYIN

Prio:

Appl.No: CN201510051221

CN 104612557 A 说明书附图 1/3页

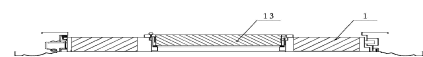


图 1

8

IPC: E06B 3/70

Vehicle door of vehicle

The invention discloses a vehicle door of a vehicle. The vehicle door of the vehicle comprises a vehicle door and a lock arranged on one side in the vehicle door, wherein the vehicle door is provided with edge frames, a vehicle window frame at the upper part and a door sheet at the lower part, and metal enforcing ribs are arranged at the edge frames; plastic reinforcing ribs are arranged on the inner side surface of the door sheet; the lock is provided with a rear handle, a front handle is arranged at the other edge, opposite to the lock, of the inner side surface of the door sheet, and the front handle and the rear handle are connected in linkage. According to the vehicle door disclosed by the invention, the plastic reinforcing ribs are arranged, so that the strength of the door sheet is enhanced; the metal reinforcing ribs are arranged, so that the edge positions of the vehicle door are fastened, and the impact force which the vehicle door can bear, or the resistance to bending and folding, of the vehicle door, can be enhanced; handles which can control the lock are respectively arranged at the front position and the rear position of the vehicle door of an electrical vehicle which is provided with double rows of seats and a single door, compared with the design of opening the lock from one side, and the design of the vehicle door disclosed by the invention is convenient for passengers in the row far from the lock to open the door; the two handles are directly connected in linkage, and an extra independent unlocking structure is not needed, so that the cost is relatively low, and the vehicle door is convenient to manufacture.

Publication: **CN 104612558 A 20150513**

Applicant: LIFENG GROUP CO LTD
Inventor: ZHANG FENG
Prio:
Appl.No: CN201510092817
IPC: E06B 3/72

CN 104612558 A 说明书附图 1/10页

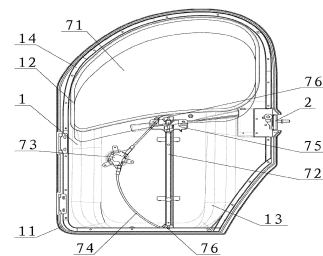


图 1

Adjustable door leaf for escape door and adjusting method thereof

The invention discloses an adjustable door leaf for an escape door and an adjusting method of the adjustable door leaf. The adjustable door leaf comprises an upper cross beam fixed to a door machine or a door frame, a swing arm assembly, a door leaf body, a rotating block, an adjusting block and an adjusting screw. The swing arm assembly is rotatably arranged on the upper cross beam in the axial direction, the door leaf body is arranged below the upper cross beam, the rotating block is arranged on the door leaf body, the adjusting block and the adjusting screw are arranged on the door leaf body, the rotating block and the swing arm assembly are connected together, and the rotating block and the swing arm assembly are connected through a pin shaft. The swing arm assembly comprises a connecting rod on the upper cross beam and a swing arm connected with the connecting rod, the adjusting block and one end of the swing arm are connected together through the adjusting screw, and the distance between the swing arm and the adjusting block can be adjusted through the adjusting screw. The distance between the lower end of the door leaf body and the horizontal ground can be adjusted, therefore, the door leaf body and the ground can be kept even, the door leaf body and the ground cannot be damaged, meanwhile, the door leaf cannot be blocked, and the safety of people is guaranteed.

Publication: **CN 104612559 A 20150513**

Applicant: SHENZHEN LAFAYA TECHNOLOGY CO LTD
Inventor: HUANG JIA; LAI JIAOJIN; LIU DIANYUE; YANG JINGFENG; ZHANG SUMING
Prio:
Appl.No: CN201410379005

CN 104612559 A 说明书附图 1/10页

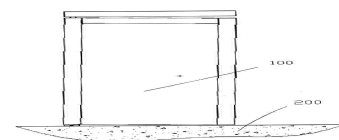


图 1

IPC: E06B 5/10

Electronic anti-theft door and window of building

The invention discloses an electronic anti-theft door and window of a building. The electronic anti-theft door and window of the building comprises a window frame, a sash, magnetic sensors and electronic sensors, wherein the window frame is installed on a wall; the sash is fixedly installed on the window frame through a rotary shaft; the magnetic sensors are correspondingly installed at the positions, on the two sides of the sash, of the window frame; a program operation keyboard and an alarm are arranged above and below the window frame; the electronic sensors are installed at the upper end and the lower end of the window frame. Compared with a traditional anti-theft door and window technology, the electronic anti-theft door and window of the building has the technical advantages of being high in sensibility due to arrangement of dual alarm, low in misinformation possibility, simple in structure and high in practicability, eliminates the fire control incipient faults caused by iron gate fences, and has better reliability and lower production cost.

Publication: [CN 104612560 A 20150513](#)

Applicant: HARBIN LONGDI BUILDING MATERIAL CO LTD

Inventor: LI JINGHUA

Prio:

Appl.No: CN201310540035

IPC: E06B 5/11

Multifunctional theft-proof heat insulating window

The invention relates to a heat insulating window, in particular to a multifunctional theft-proof heat insulating window, and belongs to the fields of building energy-saving materials and building energy-saving technologies. The multifunctional theft-proof heat insulating window is composed of theft-proof shutter fences, a theft-proof shutter fence fixed support, a theft-proof shutter fence driving window frame and multilayer glass. The multifunctional theft-proof heat insulating window is characterized in that for the shutter fences, the light transmitting function, the sunshading function, the light-blocking function and the privacy protecting and decorative functions of ordinary shutters are achieved; what's more, the multifunctional theft-proof heating insulating window has better theft-proof property and heat insulating property, and escape can be achieved in an emergency situation.

Publication: [CN 104612561 A 20150513](#)

Applicant: WA SHI GROUP WUHAN ETERNAL TECHNOLOGY CO LTD

Inventor: SHEN ZIQUAN; WEI HUASHAN; WU SHAOBING; ZHANG XINGHUA

Prio:

Appl.No: CN201410813146

IPC: E06B 5/11

CN 104612561 A 说明书附图 1/3页

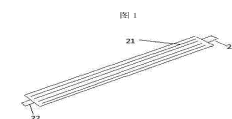
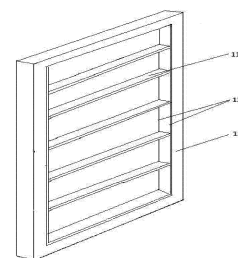


图 2

6

Anti-theft heat-insulation security door and manufacturing method thereof

The invention discloses an anti-theft heat-insulation security door. The anti-theft heat-insulation security door comprises a security door body, an anti-theft lock panel and a third door lock, wherein a cat eye is formed in the security door body, the anti-theft lock panel is arranged at the left side of the security door body, a handle is installed on the anti-theft lock panel, a primary lock cylinder is arranged below the handle and connected with a primary lock tongue, and a secondary lock cylinder is arranged below the primary lock cylinder and connected with a secondary lock tongue; a cavity is formed inside the security door body, a heating wire is installed inside the cavity, two sets of fans are arranged at the left side of the heating wire, an inner door panel is arranged at the right side of the cavity, and a protective net is arranged at the right side of the inner door panel. The anti-theft heat-insulation security door is convenient to use, can be heated in winter and can achieve a ventilation effect in summer, and the inner door panel can be freely detached and repaired when the anti-theft heat-insulation security door breaks down; meanwhile, the three arranged locksets can greatly improve the difficulty that the security door is damaged by thieves, and therefore the security of the anti-theft heat-insulation security door is improved.

Publication: [CN 104612562 A 20150513](#)

Applicant: SUQIAN FENGCHI SECURITY CO LTD

Inventor: XIAO FENG; ZHANG CHAOFENG

Prio:

Appl.No: CN201510003684

IPC: E06B 5/11

CN 104612562 A 说明书附图 1/2页

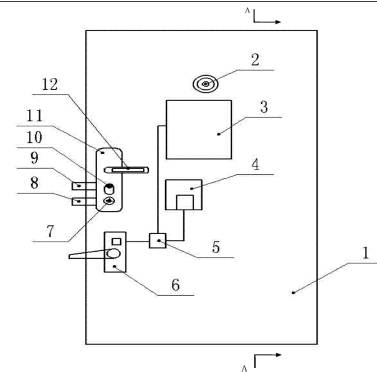


图 1

6

Antitheft door

The invention provides an antitheft door which comprises a door plate. A groove is formed in the door plate. An opening is formed in the wall of the groove. A plane to which the opening belongs is perpendicular to the door plate. A door lock assembling hole is formed in the side face of the door plate. A door lock is installed in the door lock assembling hole. A key hole of a lock cylinder of the door lock is exposed through the opening. A user takes a key in hand to insert the key into the groove, and the key is inserted into the key hole through the opening. The antitheft door has the advantages that by changing the direction of the key hole, the insertion direction of the key is parallel to the door plate, unlocking through the key is convenient due to arrangement of the groove, it is difficult to pick the lock through a tool, the antitheft effect of the antitheft door is improved, and safety is improved.

Publication: [CN 104612563 A 20150513](#)

Applicant: XU WEIGUANG

Inventor: XU WEIGUANG

Prio:

Appl.No: CN201510035170

IPC: E06B 5/11

CN 104612563 A 说明书附图 1/2页

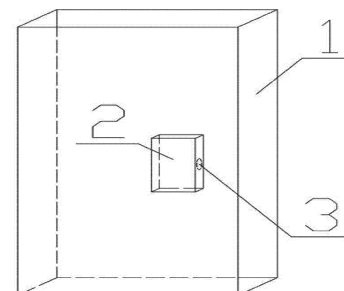


图 1

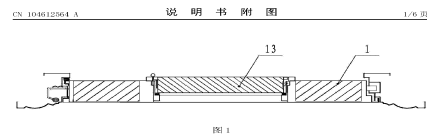
6

Spliced hidden type door within door

The invention relates to an antitheft door, in particular to a spliced hidden type door within a door. At present, for a door within a door structure with a frame, imperfect matching between the door within the door and a main door leaf can be caused easily, screws or rivets are prone to loosening and even falling off, a small door leaf is made to shake, and use is influenced. The spliced hidden type door within the door is characterized in that a hole is formed in the middle of a rear board of the main door leaf, the four edges of the hole are bent forwards to form small door frame edges, and the small door frame edges are spliced to form a small door frame; a back-flap hinge comprises a hinge, a door leaf hinge fixing plate and a door frame hinge fixing plate, and the hinge comprises a door leaf connecting piece and a door frame connecting piece; the door leaf connecting piece is connected to the small door leaf through the door leaf hinge fixing plate, and the door frame connecting piece is connected to the small door frame through the door frame hinge fixing plate. According to the technical scheme, the small door frame is formed by bending the main door leaf plate, the integrality is good, the structure is firm, the small door frame is matched with the small door leaf, and the spliced hidden type door within the door is reliable in use.

Publication: [CN 104612564 A 20150513](#)

Applicant: LYU XINYIN
Inventor: LYU XINYIN
Prio:
Appl.No: CN201510050025
IPC: E06B 5/11

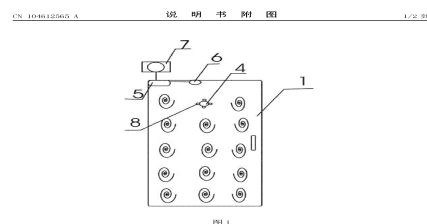


Novel intelligent fireproof door

The invention provides a novel intelligent fireproof door good in fireproof effect. The door comprises a door plate, a fireproof door body, a perlite door plate and a cat eye and is characterized by further comprising a sensor, an alarming device, an exhaust fan, a cat eye lamp and a dry powder extinguishing layer, wherein the door plate is a hollowed-out door plate. The sensor, the alarming device, the exhaust fan, the cat eye lamp and the dry powder extinguishing layer are additionally arranged, the sensor receives the outside condition in the using process, the condition is judged according to the outside smoke density and temperature condition, when it is detected that outside smoke or temperature is too high and a fire can be caused, the sensor transmits information to the alarming device and the exhaust fan, and the alarming device gives an alarm; when the smoke density is too large, the exhaust fan is opened so that smoke can be exhausted to the outside, and the situation that persons in danger are choked due to the smoke is avoided; when the fire behavior is too strong, the dry powder extinguishing layer in the hollowed-out door plate is popped open, dry powder is sprayed onto flames, the fire behavior is relieved, and an escaping chance is provided for the persons in danger.

Publication: [CN 104612565 A 20150513](#)

Applicant: TIANJIN PUAN FIRE PREVENTION TECHNOLOGY CO LTD
Inventor: LI JIAN
Prio:
Appl.No: CN201310537652



IPC: E06B 5/16

Fire door made of foamed aluminum

The invention belongs to the field of building materials and particularly relates to a fire door made of foamed aluminum. The fire door made of the foamed aluminum comprises a door frame and a door leaf. The door leaf is made of foamed aluminum materials. A manufacturing method of the foamed aluminum comprises the following steps that a, aluminum is heated to 650 DEG C-680 DEG C so that the aluminum is melted; b, silicon carbon particles with the weight percentage being 2%-5% are added into the liquid aluminum and are stirred to be even; c, nitrogen gas is led into the liquid aluminum, and the liquid aluminum is stirred at the same time, wherein the rotating speed of a stirrer is 600 r/min-1,000 r/min; d, the liquid aluminum is cooled, so that the liquid aluminum is solidified, and a foamed aluminum plate is manufactured. The fire door is manufactured by utilizing the advantages of being light in weight, good in sound isolation, high in strength and resistant to fire of the foamed aluminum, so the defects that an existing fire door is clumsy and expensive are overcome; besides, the fire door is convenient to install and use, and the cost of the fire door is also lowered.

Publication: **CN 104612566 A 20150513**

Applicant: ZHANG XU

Inventor: ZHANG XU

Prio:

Appl.No: CN201410741387

IPC: E06B 5/16

CN 104612566 A 说明书附图 1/1 页

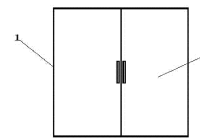


图 1

5

Sinking type anti-radiation steel door assembly

The invention discloses a sinking type anti-radiation steel door assembly. The assembly comprises an upper opening and a steel frame located under the ground plane, wherein a door plate is arranged in the steel frame fixedly provided with a turbine, the turbine is connected to a motor through a speed reduction mechanism, the door plate comprises a steel outer sleeve and a lead core cast in the inner cavity of the steel outer sleeve, the outer side of the door plate is provided with a rack matched with the turbine, and meanwhile a cover plate is arranged on an upper opening of a door frame. The sinking type anti-radiation steel door assembly has the advantages that a steel structure building is not damaged and integrity is good.

Publication: **CN 104612567 A 20150513**

Applicant: JIANGSU TENGYUAN CONSTRUCTION

ENGINEERING MACHINERY CO LTD

Inventor: JIANG XIUZHI

Prio:

Appl.No: CN201310538477

IPC: E06B 5/18

CN 104612567 A 说明书附图 1/2 页

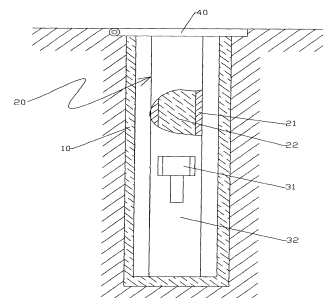


图 1

5

Novel blind window

The invention relates to a novel blind window which comprises an outer frame, an inner frame, fixed guide rods, roller shafts, a handle, blades, movable guide rods and a self-locking device. The outer frame is connected with the inner frame. The inner frame is fixedly connected with the fixed guide rods. The fixed guide rods are connected with the blades through the roller shafts. The blades are connected through the movable guide rods. The movable guide rods are connected with the handle. Concentric lock holes are formed in the outer frame and the inner frame. The handle is provided with the self-locking device. The blades are locked and fixed through mutual matching of the self-locking device and the lock holes. The novel blind window is provided with adjustable ventilation openings, a connecting rod connection structure is adopted between the blades and the inner frame, the blades can rotate along connecting rods, the blades and the inner frame are closed when the blades rotate to preset positions, the positions of the blades can be fixed through the self-locking device on the handle, opening and closing of the blades and the air outlet direction can be controlled, the problem that the ventilation openings of a blind window leak rainwater is solved, and the actual using demand is met.

Publication: [CN 104612568 A 20150513](#)

Applicant: JIANGSU ZHONGZHAN VEHICLE PARTS CO LTD

Inventor: XU YOUSHENG

Prio:

Appl.No: CN201410780138

IPC: E06B 7/08

CN 104612568 A 说明书附图 1/3页

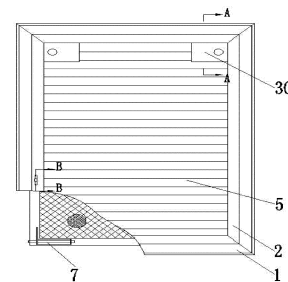


图 1

6

Door with gas alarm function

The invention provides a door with a gas alarm function. The door comprises a door body, a warning lamp and a buzzer. The warning lamp is fixed to the door body, the buzzer is fixed to the door body, an electric control switch is arranged in the door body, and the door body is provided with a door lock and a key hole.

Publication: [CN 104612569 A 20150513](#)

Applicant: ZHONGSHAN ANLING STAR ELECTRONIC TECHNOLOGY CO LTD

Inventor: TANG CHUNHUA

Prio:

Appl.No: CN201410554155

IPC: E06B 7/28

CN 104612569 A 说明书附图 1/3页

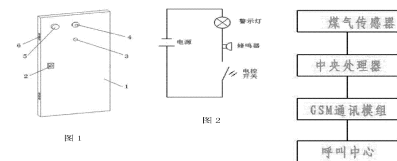


图 1

图 2

图 3

6

Bay window burglar mesh capable of preventing children from falling

The invention provides a bay window burglar mesh capable of preventing children from falling. The burglar mesh is manufactured by welding stainless steel tubes and comprises a square base frame and a plurality of U-shaped horizontal grids and vertical grids. The horizontal grids and the vertical grids are both welded on the base frame, the horizontal grids and the vertical grids are welded to form a bay window type grid body which protrudes outwards along the base frame in staggered penetrating and inserting modes. Reinforcing horizontal grids and reinforcing vertical grids are further welded between the horizontal grids and the vertical grids on the lower portion of the burglar mesh, so that the gaps between the grids on the lower portion of the burglar mesh are half the gaps between the grids on the middle portion and the upper portion of the burglar mesh, and each vertical grid is formed by integrally bending a single stainless steel tube. According to the bay window burglar mesh, the grids on the lower portion of the burglar mesh are densified, and the gaps of the grids on the lower portion of the burglar mesh are made to be small enough so that the children can be effectively prevented from falling, moreover, each vertical grid of the burglar mesh is formed by integrally bending the single stainless steel tube, and thus the potential safety hazards that the welding portions are likely to be broken when section type welding vertical grids of a common burglar mesh bear loads are effectively avoided.

Publication: [CN 104612570 A 20150513](#)

Applicant: HUANG JUNLIU
Inventor: HUANG YUAN
Prio:
Appl.No: CN201510060183
IPC: E06B 9/01

CN 104612570 A 说明书附图 1/3页

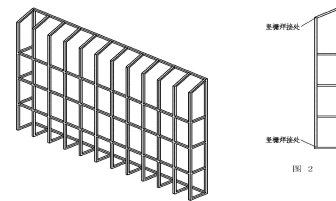


图 1

图 2

5

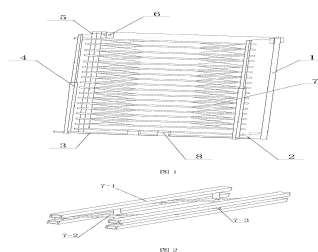
Anti-theft window with escaping function

The invention discloses an anti-theft window with an escaping function. The anti-theft window comprises a window frame. The bottom end of the window frame is provided with a pair of mounting bases. The mounting bases are provided with shaft holes. A rotating shaft is inserted into the shaft holes. The two ends of the rotating shaft are each fixedly provided with a sliding rail. The top ends of the two sliding rails are provided with steel wire ropes, and the steel wire ropes penetrate through pulleys arranged at the top end of the window frame to be connected with lifting and rotating handles. Transverse ladder fences are arranged between the sliding rails and the window frame. The bottom ends of the ladder fences are connected with the rotating shaft through connection blocks. The two ends of a transverse rod at the top ends of the ladder fences are fixedly connected with the top ends of the sliding rails. The anti-theft window is designed and manufactured by the adoption of the mechanical principle, free stretching out and drawing back are achieved under the gravity action of the ladder fences, the power in the whole pulling down process is provided through manual operation, no power device is required to be additionally and separately arranged, the anti-theft window is simple in structure and easy to manufacture, the environment is protected, and energy is saved.

Publication: [CN 104612571 A 20150513](#)

Applicant: SUZHOU SHENLONG DOORS AND WINDOWS CO LTD
Inventor: HUANG LONGHAI; HUANG YAOQIONG; WU LEI
Prio:
Appl.No: CN201510066949

CN 104612571 A 550 494 495 496 497 1/3页



5

IPC: E06B 9/06

Efficient tiny-dust-proof window gauze capable of releasing negative ions and manufacturing method thereof

The invention discloses efficient tiny-dust-proof window gauze capable of releasing negative ions and a manufacturing method of the efficient tiny-dust-proof window gauze. A negative ion functional film layer is attached to the window gauze and is a film layer capable of releasing the negative ions, the film layer is formed by negative ion powder and high polymer materials with the adhesion function in a spraying mode, and therefore the window gauze has the function of releasing the negative ions while being used for filtering dust, the content of the negative ions in air passing the window gauze can be increased, the quality of the air entering a room can be improved, adverse affects caused by outdoor atmospheric pollution on indoor work and life of people are reduced, and body health of people is guaranteed. Besides, on the basis that the negative ions have a special aggregation effect on tiny dust, the dust has positive charges, the negative ions in the air can make the tiny dust aggregated, the tiny dust can settle to become large particles capable of being intercepted by a filtering layer of the window gauze more easily, and the tiny dust intercepting efficiency of the filtering layer of the window gauze can be improved.

Publication: [CN 104612572 A 20150513](#)

Applicant: FANG CUNREN

Inventor: FANG CUNREN

Prio:

Appl.No: CN201510037064

IPC: E06B 9/52

CN 104612572 A 说明书附图 1/1页

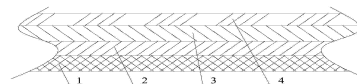


图 1

10

Transmission device for electric roller shutter door

The invention relates to the technical field of transmission devices, in particular to a transmission device for an electric roller shutter door. The transmission device comprises two mounting bases arranged on door side walls respectively. A mounting shaft capable of being arranged on the roller shutter door in a sleeved mode is arranged between the two mounting bases. All the mounting bases are provided with transmission mechanisms respectively. The transmission mechanisms comprise motors. The motors are provided with rotating shafts, and the rotating shafts are provided with gears. The transmission device for the electric roller shutter door is driven by the electric motors, and the roller shutter door is made to be faster, more convenient and smoother in the using process.

Publication: [CN 104612573 A 20150513](#)

Applicant: ZHANG XUEYAN

Inventor: ZHANG XUEYAN

Prio:

Appl.No: CN201410777664

IPC: E06B 9/68

CN 104612573 A 说明书附图 1/1页

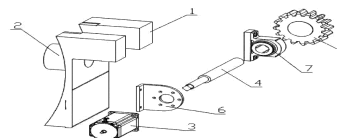


图 1

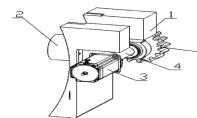


图 2

6

Vertically-rotating shutter structure of curtain wall system

The invention relates to a vertically-rotating shutter structure of a curtain wall system. The vertically-rotating shutter structure comprises an electromagnetic band-type brake device, a band-type brake supporting plate, a bearing assembly, an upper standby embedded plate, a lower standby embedded plate, an adaptor, a rotary shaft, shutter blades and a drive device. The rotating shutter blades can be fixed instead of rotating under the effects of external wind pressure and the like through the electromagnetic band-type brake device. The vertically-rotating shutter structure has the advantages that the rotary brake requirements of a vertical shutter are met; the large-torque brake difficulty of the large-board rotating shutter in the curtain wall system is avoided; a band-type brake system is installed at the rotary shaft end of the shutter, so that the vertically-rotating shutter structure is convenient to maintain.

Publication: [CN 104612574 A 20150513](#)

Applicant: BEIJING INTERNAT CONSTRUCTION GROUP CO LTD; SHENYANG YUANDA AL IND ENG CO

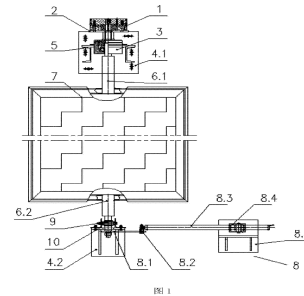
Inventor: CHEN ANQIANG; GU YABIN; HE BAIMIN; JIN DAPENG; LI XIANGDONG; LUO WENFENG; MAO LU; REN JINLONG; TIAN JIASEN; WANG JINCHANG; WANG ZHIYANG; ZHU XIAOYU

Prio:

Appl.No: CN201410856492

IPC: E06B 9/70

CN 104612574 A 说明书附图 1/4页



7

Self-locking device

The invention relates to a self-locking device which comprises a first abutting plate, a second abutting plate, a spring arranged between the first abutting plate and the second abutting plate, and a rail ditch with one end connected to the first abutting plate through a shaft. One side of the second abutting plate extends outwards to form a rail block matched with a rail hook, and the other side of the second abutting plate extends outwards to form a first slide block with a first inclined face at the free end. The self-locking device further comprises a locking block matched with the first slide block. A guide groove connected with the other end of the rail hook in a sliding mode is formed in the rail block. By means of the self-locking device, the defect that an existing roller shutter window and door can not be automatically locked is overcome, and the automatic locking is completely achieved; the self-locking device is simple in structure, easy to produce, low in cost, capable of being produced on a large scale and remarkable in social and economic benefit; the self-locking device is compact in structure, a beam and a bottom frame of the self-locking device firmly abut against each other, and gaps can be effectively avoided; the self-locking device is easy and convenient to use and can be easily accepted by consumers, and the user experience is high.

Publication: [CN 104612575 A 20150513](#)

Applicant: HAO JIANSONG

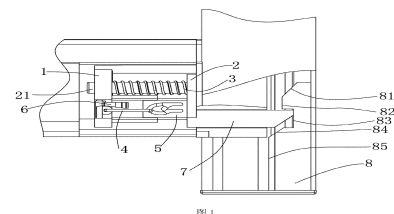
Inventor: HAO JIANSONG

Prio:

Appl.No: CN201510058795

IPC: E06B 9/80

CN 104612575 A 说明书附图 1/5页



7

Suspended folding door with triangular side link linkage mechanism

The invention relates to the field of gates characterized of suspended folding movement, in particular to a suspended folding door with a triangular side link linkage mechanism. The suspended folding door with the triangular side link linkage mechanism comprises a suspended folding door body and the triangular side link linkage mechanism. The suspended folding door body is composed of a door post, a first door leaf and a second door leaf. The first door leaf is installed on the door post through a door shaft seat in a suspended mode. The second door leaf is movably connected with the first door leaf through hinges. The triangular side link linkage mechanism is composed of a triangular side link, a first connecting rod and a second connecting rod. One end of the first connecting rod is connected with a top end of the triangular side link in a rotating mode. One end of the second connecting rod is connected with the other top end of the triangular side link in a rotating mode. The suspended folding door body is connected with the triangular side link linkage mechanism in the mode that the third top end of the triangular side link is connected with the door post in a rotating mode, the other end of the first connecting rod is connected with the first door leaf in a rotating mode, and the other end of the second connecting rod is connected with the second door leaf in a rotating mode. When the first door leaf is rotated, the second door leaf conducts folding movement relative to the first door leaf. The suspended folding door with the triangular side link linkage mechanism is simple, achieves synchronous linkage of the two door leaves, and is free of road surface installation requirement.

Publication: [CN 104612576 A 20150513](#)

Applicant: WEN GUI
Inventor: WEN GUI
Prio:
Appl.No: CN201410803805
IPC: E06B 11/04

CN 104612576 A 说明书附图 1/3页

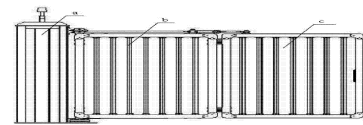


图1

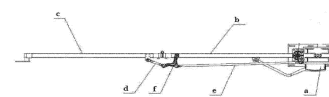


图2

6

Series-connected vertical fire ladder

The invention discloses a series-connected vertical fire ladder. The series-connected vertical fire ladder is characterized in that a support of the fire ladder is fixed through matching of an inner cone hole in the middle and an outer conical surface at the lower end of one support column body, and the outer conical surface of the support column body is matched and fixed with the inner conical surface of an inner cone hole of another support column body; the inner cone hole and the outer conical surface are matched and are fixed well and then automatically lock the well attached inner conical surface and outer conical surface through matching of locking slots in the outer conical surface as well as locking pins; pedals are arranged on the column body surface of each support column body, and anti-slip adhesives are adhered to the pedals and the bottom of the support. The series-connected vertical fire ladder is simple in structure and very convenient to manufacture, assemble and use, and tools are not required in assembly and disassembly processes when the ladder is used; with the adoption of the series-connected vertical fire ladder, the problem of upright climbing of a fireman is solved, the fire ladder is assembled quickly, conveniently, safely and reliably during upright climbing of the fireman, and the ladder is convenient to climb; after use, the ladder is convenient to disassemble, package and transport, and accordingly, production and use costs are reduced.

Publication: [CN 104612577 A 20150513](#)

Applicant: REN YUNHAI
Inventor: XU YUANYU
Prio:
Appl.No: CN201510025179

CN 104612577 A 说明书附图 1/3页

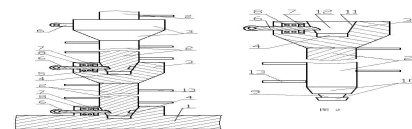


图1

6

IPC: E06C 1/30

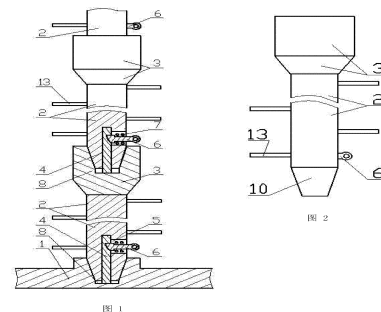
Series-connected vertical fire ladder

The invention discloses a series-connected vertical fire ladder. The series-connected vertical fire ladder is characterized in that a support of the fire ladder is fixed through matching of an inner cone hole in the middle and an outer conical surface at the lower end of one support column body, and the outer conical surface of the support column body is matched and fixed with the inner conical surface of an inner cone hole of another support column body; the inner cone hole and the outer conical surface are matched and are fixed well and then automatically lock the well attached inner conical surface and outer conical surface through matching of locking slots in a brake lever as well as locking pins; pedals are arranged on the column body surface of each support column body, and anti-slip adhesives are adhered to the pedals and the bottom of the support. The series-connected vertical fire ladder is simple in structure and very convenient to manufacture, assemble and use, and tools are not required in assembly and disassembly processes when the ladder is used; with the adoption of the series-connected vertical fire ladder, the problem of upright climbing of a fireman is solved, the fire ladder is assembled quickly, conveniently, safely and reliably during upright climbing of the fireman, and the ladder is convenient to climb; after use, the ladder is convenient to disassemble, package and transport, and accordingly, production and use costs are reduced.

Publication: **CN 104612578 A 20150513**

Applicant: REN YUNHAI
Inventor: XU YUANYU
Prio:
Appl.No: CN201510025186
IPC: E06C 1/30

CN 104612578 A 说明书附图 1/3页



16

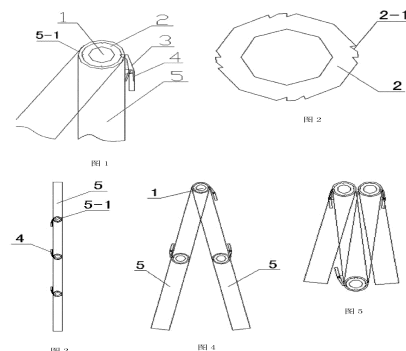
Multifunctional folding ladder

The invention relates to a multifunctional folding ladder which consists of connecting shafts (1), ratchet wheels (2), lock catches (3), springs (4) and connecting rods (5), wherein rotatable joints 5-1 are installed at the top ends of the connecting rods (5); each joint 5-1 is internally provided with positions for placing the ratchet wheel (2) and the lock catch (3); two adjacent connecting rods (5) are connected by virtue of the connecting shaft (1) which is connected with the ratchet wheel (2). The multifunctional folding ladder is characterized in that the lock catch (3) is locked in a slot 2-1 of the ratchet wheel (2) and the spring (4) is installed on the lock catch (3). When the ladder is used, the lock catch (3) is pressed down or released, so that the ratchet wheel (2) is locked or unlocked. When the ladder is not used, all the connecting rods are folded.

Publication: **CN 104612579 A 20150513**

Applicant: ZHENJIANG BROWAH TECHNOLOGY CO LTD
Inventor: GUO HAO; JIANG WEILIANG; YANG XING;
YANG YUNSHENG
Prio:
Appl.No: CN201510092391
IPC: E06C 1/383

CN 104612579 A 说明书附图 1/3页



5

Box step for overhauling overhead line system of electrified railway

The invention relates to a box step for overhauling an overhead line system of an electrified railway. and overcomes the defects that an overhead line system overhauling box step cannot satisfy the actual use requirements compared with the prior art. According to the box step disclosed by the invention, an output shaft of a main motor is mounted on a main decelerator, the main decelerator is fixedly mounted on a short longitudinal beam through a main decelerator supporter, driving wheel components are respectively mounted on the main decelerator and two longitudinal beams, and the number of the driving wheel components is two; the driving wheel components comprise spline shafts mounted on the output shaft of the main decelerator, and the spline shafts are connected with driving shafts through connecting shafts; bearing seats are fixedly mounted on the longitudinal beams, the driving shafts are mounted on the bearing seats, and travelling wheels are fixedly mounted at the ends, outside the chassis of the box step, on the driving shafts. According to the box step disclosed by the invention, the movement of the box step can be electrically controlled, the barycentric regulation of the box step at a bend path can be realized through the adjustment of the length of box step feet, and through the design of a track grasping device, the situation that the box step cannot be overturned in operation is ensured.

Publication: [CN 104612580 A 20150513](#)

Applicant: HEFEI POWER SUPPLY SECTION OF SHANGHAI RAILWAY ADMINISTRATION

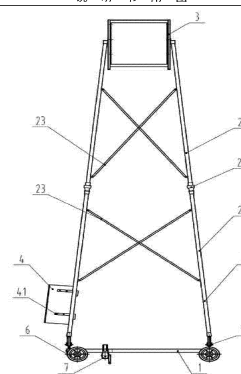
Inventor: AN KUN; DAI HUA; DING JIACONG; GAO YUANSHUI; HOU WENYU; HUANG RONGXING; LI CHANGSHENG; LIU BOTAO; WANG CHANGXI; WANG KAIYUAN; XIONG WEIGUO; YAN YAMING; YU XUELIN; YUAN FUQIANG; ZHANG YONGWEI; ZHAO NING; ZHOU BANGFU; ZHU JIACHENG

Prio:

Appl.No: CN201510034510

IPC: E06C 1/39

CN 104612580 A 说明书附图 1/19页



Window frame connecting structure for combination window and combination window

The invention provides a window frame connecting structure for a combination window and the combination window. The window frame connecting structure comprises a body window frame, an outer window frame, connectors and screws. The body window frame is provided with wing plates extending to one side. Each wing plate is provided with at least one body window through hole. First side plates of the outer window frame are attached to the outer surfaces of the wing plates. Outer window through holes communicated with the body window through holes are formed in the first side plates. Second side plates are perpendicular to the first side plates and provided with screw installation holes. The connectors comprise frame supporting parts and screw fixing parts which are perpendicularly connected. The screw fixing parts penetrate through the body window through holes and the outer window through holes and extend into an inner cavity of the outer window frame. The screws are fed into the inner cavity through the screw installation holes and penetrate into threaded holes in the screw fixing parts. By the adoption of the window frame connecting structure for the combination window and the combination window, the structure is stable, safety and reliability are achieved, and the phenomenon that an outer window and a body window are separated due to the fact that the screws are loosened and fall is effectively avoided.

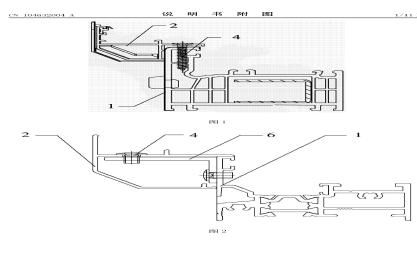
Publication: [CN 104632004 A 20150520](#)

Applicant: YKK CHINA INVEST CO LTD

Inventor: GE XIAOBEN; NENG TAIZHI

Prio:

Appl.No: CN201310573882



IPC: E06B 1/04

Aluminum-plastic aluminum plastic core profile

The invention relates to an aluminum-plastic aluminum plastic core profile which is characterized in that the section design of the profile integrates Chinese facial makeup art and a 'Zhong Da' written character model, a cavity structurally includes an upper cavity, a lower cavity, a left cavity and a right cavity, the aluminum-plastic aluminum plastic core profile comprises a composite port combined with an aluminum profile, a central rubber strip port, a Chinese facial makeup art structure, a 'Zhong Da' written character model structure and a four-cavity structure, the composite port combined with the aluminum profile comprises a left-falling stroke A and a right-falling stroke B of a 'Da' character, the central rubber strip port comprises an upper ear C and an eardrop D of Chinese facial makeup, the Chinese facial makeup art structure comprises the composite port combined with the aluminum profile, the central rubber strip port, the 'Zhong Da' written character model structure and the four-cavity structure, and the 'Zhong Da' written character model structure comprises spaces of the four cavities, a horizontal stroke E and a vertical stroke F. By the aid of multi-cavity design, a cold cavity space is reduced, heat loss caused by air convection is prevented, a six-cavity structure is formed after the aluminum-plastic aluminum plastic core profile is compounded, and a K value reaches a 1.8-2.0W/(m²K) standard.

Publication: **CN 104632005 A 20150520**

Applicant: LIAONING ZHONGDA ALUMINUM CO LTD

Inventor: LIU YANHUI; ZHOU JIANJUN

Prio:

Appl.No: CN201510067241

IPC: E06B 1/04

CN 104632005 A 说明书附图 1/1 页

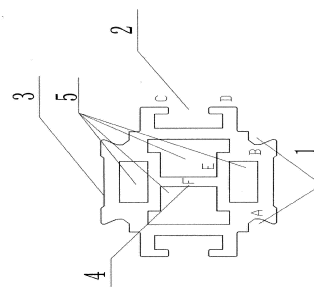


图 1

Mounting structure of lamp box door frame

The invention relates to a mounting structure of a lamp box door frame. The mounting structure comprises a box body, and the door frame is arranged on the back side of the box body; square holes are formed in the box body, and inner flanges are arranged in the box body in a protruding and extending manner along the edges of the square holes; supporting frames are fixedly connected along the inner flanges, and elastic gasket rings are arranged on the supporting frames; a clamping groove is formed in the side, located on the top edge of the inner flanges, of the box body, and a clamping pin is arranged on the top of the door frame; the clamping pin is clamped in the clamping groove, and the door frame is arranged on the elastic gasket rings in a press-fit manner; an inserting groove is formed in the side, located at the bottom edge of the inner flanges, of the box body, and an inserting plate is arranged in the inserting groove; and the inserting plate is compressed and attached to the door frame and is fixedly connected with the door frame through a screw. The mounting structure of the lamp box door frame is high in sealing performance, stable and firm, and therefore the survival ability of a lamp box under the complex working environment is improved.

Publication: **CN 104632006 A 20150520**

Applicant: WUXI XINQITE PLATE WORK MACHINE CO LTD

Inventor: HAN YIYAN

Prio:

Appl.No: CN201310561929

CN 104632006 A 说明书附图 1/1 页

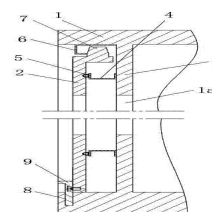


图 1

IPC: E06B 1/60

Door and window installing method using auxiliary frame

The invention provides a door and window installing method using an auxiliary frame. The door and window installing method using the auxiliary frame is characterized in that the auxiliary frame is provided with a dedicated auxiliary frame limiting piece, and a window frame is provided with a dedicated rotation clamping piece. During the installation, by rotating the installing clamping piece on the window frame, the locking purpose is achieved, so that the auxiliary frame and the window frame are fixed tightly.

Publication: [CN 104632007 A 20150520](#)

Applicant: SHANDONG TIANCHANG ENVIRONMENTAL PROT ENGINEERING CO LTD

Inventor: GAO LEMIN; LI ZHICHEN; WANG GUANGLONG; ZENG CHANGTAO; ZHANG BO; ZHANG YOUZHONG

Prio:

Appl.No: CN201510019964

IPC: E06B 1/60

CN 104632007 A 说明书附图 1/3页

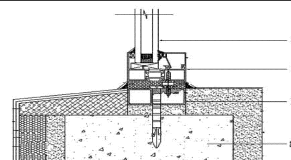


图 1



图 2

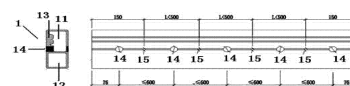


图 3

7

Inclined plane connecting structure of doorsill system

The invention relates to an inclined plane connecting structure of a doorsill system, and belongs to the field of doors and windows of buildings. The inclined plane connecting structure of the doorsill system comprises a pressure block (1) and a doorsill inclined plane (3), wherein the pressure block (1) is provided with a doorsill inclined plane clamping side end (12) and a slot (13) with an upward opening; the slot (13) is provided with a second buckle service portion (13-2); the doorsill inclined plane (3) is provided with an inner buckle (31) and a second buckle (32-2) which are respectively in clamping connection with the doorsill inclined plane clamping side end (12) and the second buckle service portion (13-2) in a matched manner; a second chamfer (13-21) is formed at the upper end of the second buckle service portion (13-2); and a second inserting chamfer (32-21) is formed at the lower end of the second buckle (32-2). A bolt connection mode in the prior art is abandoned, the components of the inclined plane connecting structure of the doorsill system are connected to one another by buckles, the structure is optimized, and the mounting efficiency is improved obviously.

Publication: [CN 104632008 A 20150520](#)

Applicant: ZHEJIANG HONGBO NEW BUILDING MATERIALS CO LTD

Inventor: CHENG LELI; LIN HAIMING; ZHANG LIQIANG

Prio:

Appl.No: CN201510082459

IPC: E06B 1/70

CN 104632008 A 说明书附图 1/1页

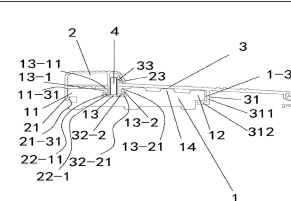


图 1

6

Doorsill system

The invention relates to a doorsill system, and belongs to the field of doors and windows of buildings. The doorsill system comprises a pressure block, a doorsill body and a doorsill inclined plane, wherein the pressure block is provided with a doorsill body clamping side end, a doorsill inclined plane clamping side end and a slot with an upward opening; the slot is provided with a first buckle service portion and a second buckle service portion; the doorsill body is provided with an outer buckle and a first buckle which are in clamping connection with the doorsill body clamping side end and the first buckle service portion in a matched manner; and the doorsill inclined plane is provided with an inner buckle and a second buckle which are respectively in clamping connection with the doorsill inclined plane clamping side end and the second buckle service portion in a matched manner. A bolt connection mode in the prior art is abandoned, the components of the doorsill system are connected to one another by buckles, the structure is optimized, and the mounting efficiency is improved obviously.

Publication: [CN 104632009 A 20150520](#)

Applicant: ZHEJIANG HONGBO NEW BUILDING MATERIALS CO LTD

Inventor: CHENG LELI; LIN HAIMING; ZHANG LIQIANG

Prio:

Appl.No: CN201510082564

IPC: E06B 1/70

CN 104632009 A 说明书附图 1/1 页

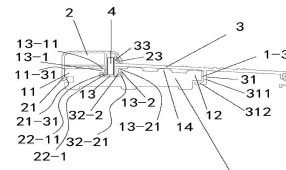


图 1

6

Frame profile for a window or door

A frame profile (1, 2) is designed for a window or a door, on which at least one groove (40) of the lateral profile bars (41) is surrounded and the at least one sliding block (16) has a fitting plate (15) is fixed, wherein the at least one sliding block (16) comprises in the groove (40) engages behind inwardly projecting holding web (42) to the lateral profile bars (41), characterized in that a spacer (17) made of an elastic material is arranged between the fitting plate (15) and the at least one sliding block (16).

Publication: [CN 104632010 A 20150520](#)

Applicant: SCHUECO INT KG

Inventor: HANKE CARSTEN

Prio: DE 20131112 202013105102

Appl.No: CN201410018607

IPC: E06B 3/16

CN 104632010 A 说明书附图 1/3 页

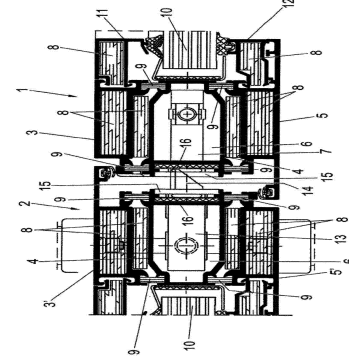


图 1

7

Composite profile

The invention discloses a composite profile (1) for a fire protection construction. The composite profile (1) is provided with a first metallic outer profile (2) having at least one hollow chamber (3), a second metallic outer profile (4) with at least one hollow chamber (5), and an agent profile (6) arranged between the first and second outer sections (2, 4) and having at least one hollow chamber (7). The agent profile (6) is connected with the first outer profile (2) via at least two spaced insulating bars (8) and is connected with the second outer profile (4) via at least two spaced insulating strips (9), and at least one of the hollow chambers (3, 5, 7) is internally provided with a fire protection strip (40, 41) made of heat power absorbing materials.

Publication: [CN 104632011 A 20150520](#)

Applicant: SCHUECO INT KG
Inventor: HANKE CARSTEN
Prio: DE 20131112 202013105101
Appl.No: CN201410018028
IPC: E06B 3/263

CN 104632011 A 说明书附图 1/3 页

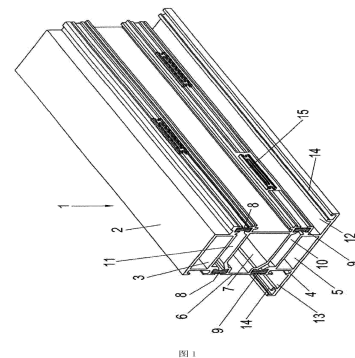


图 1

7

Composite profile and method for producing a composite profile

The invention discloses a composite profile for a fire protection construction. The composite profile comprises a metallic first outer profile (2) and a metallic second outer profile (4), between which a metallic center profile (6) is arranged. The first outer profile (2) is connected with the agent profile (6) via at least one first insulating bar (8) made of plastic, and the second outer profile (4) is connected with the agent profile (6) via at least one second insulating strip (9) made of plastic. At least one of the first and second insulating bars (8, 9) is provided with spaced metal brackets (15) to fix the first or second outer profile (2, 4) to the middle section (6) in case of fire. Furthermore, the invention relates to a method for producing the composite profile.

Publication: [CN 104632012 A 20150520](#)

Applicant: SCHUECO INT KG
Inventor: HANKE CARSTEN
Prio: DE 20131112 102013112435
Appl.No: CN201410018041
IPC: E06B 3/263

CN 104632012 A 说明书附图 1/6 页

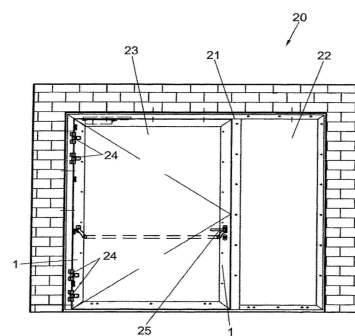


图 1

9

Buckle type copper door and manufacturing and installing method thereof

The invention relates to a buckle type copper door and a manufacturing and installing method thereof. The buckle type copper door comprises a left copper door body and a right copper door body. The left copper door body and the right copper door body each comprise a steel framework, a front composite door face decoration plate, a rear composite door face decoration plate and buckles, wherein the contact faces between a composite layer and decoration face plate layers are attached together, and the side faces of the steel framework are fixed to the decoration face plate layer of the front composite door face decoration plate and the decoration face plate layer of the rear composite door face decoration plate through the buckles respectively. Through the buckle type technology, the consumption of adhesive glue is greatly lowered, and the product is more environmentally friendly; the supply period of the product is greatly shortened; the flexibility and diversity of the product are improved, and a customer has more options; the decoration face plates and the door bodies can be conveniently and flexibly replaced and detached, the purposes of recovering or replacing or recycling the decoration face plates and the door bodies are well achieved, and the sustainable developability of the industry is improved.

Publication: [CN 104632013 A 20150520](#)

Applicant: ZHANG JUNWU
Inventor: ZHANG JUNWU
Prio:
Appl.No: CN201510047849
IPC: E06B 3/36

CN 104632013 A 说明书附图 1/2页

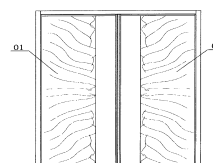


图1

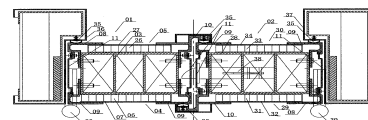


图2

11

Single leaf door with machinery sequential control single action source automatic opening and closing lock and opening and closing door

The invention discloses a single leaf door with a machinery sequential control single action source automatic opening and closing lock and opening and closing door. The single leaf door particularly comprises a door board, a first shaft, a first connecting bridge, a first spring, a first fixed rod, a connecting rope, a fixed pulley, a first fixed plate, a second shaft, a second connecting bridge, a second spring, a second fixed rod, a second fixed plate, a door frame, a locking mechanism, a cylindrical cam, a third shaft, a forth shaft, a deflector rod, a distributing ring, a third fixed rod, a third spring, a third fixed plate, an ejector rob, a compressible baffle block, a fifth shaft, a forth spring, a forth fixed plate and a fixed baffle block. Compared with the prior single leaf door, the single leaf door with the machinery sequential control of the single action source automatic switch lock and the opening and closing door can achieve opening and closing of the door and the switch through an automatic control, the operation in controlling is simpler and more convenient, and as the door can be opened and closed inwards and outwards, the anti-theft performance is better. Meanwhile, the materials used by the single leaf door can be wood, metal, glass and the like, and the low price, attractive performance, practicability and safety are obtained simultaneously.

Publication: [CN 104632014 A 20150520](#)

Applicant: GUANGXI PINGGUOLV ANFU DOOR INDUSTRY CO LTD
Inventor: HUANG JIAFENG
Prio:
Appl.No: CN201510055856

CN 104632014 A 说明书附图 1/2页

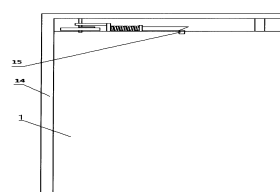


图1

7

IPC: E06B 3/36

Glass window capable of conducting 360-degree turnover in four directions and being conveniently taken down

Disclosed is a glass window capable of conducting 360-degree turnover in four directions and being conveniently taken down. The glass window comprises an outer window frame, a glass window frame, a piece of glass, rotating shafts and shaft holes, wherein the glass is arranged in the glass window frame, four borders of the glass window frame are connected with borders on the four sides of the outer window frame through the rotating shafts and the shaft holes, and the rotating shafts and the shaft holes are arranged in the center points of the borders and the outer window frame; the glass window frame can be turned over leftwards and rightwards by 360 degrees when the left rotating shaft and the right rotating shaft are taken down, the glass window frame can be turned over upwards and downwards by 360 degrees when the upper rotating shaft and the lower rotating shaft are taken down, and the glass window frame can be separated from the outer window frame when the upper rotating shaft, the lower rotating shaft, the left rotating shaft and the right rotating shaft are taken down.

Publication: [CN 104632015 A 20150520](#)

Applicant: HE ZHONGHUA

Inventor: HE ZHONGHUA

Prio:

Appl.No: CN201310551370

IPC: E06B 3/40

CN 104632015 A 说明书附图 1/3 页



图 1

Rotary window

The invention provides a rotary window, comprising a fixed window frame and a movable window frame, and being characterized in that a rotation shaft and a bolt are installed at the centers of the upper and lower borders of the fixed window frame; the rotation shaft can be locked by the bolt; the movable window frame is fixed to the rotation shaft and can rotate by taking the rotation shaft as the center; flowerpot shelves are arranged on the inner and outer surfaces of the movable window frame; a window lock is arranged on the side wall of the movable window frame. The window can rotate by taking the rotation shaft on the fixed window frame as the center, and the flowerpot shelves are arranged below the movable window frame, requirements on growing flowers of people can be fully met, cleaning is easy, the ventilation effect is good, the interior space is not occupied, the structure is simple, and operation is convenient.

Publication: [CN 104632016 A 20150520](#)

Applicant: XIANGYANG CITY XIANGZHOU DISTR NO 4
HIGH SCHOOL

Inventor: ZHAO JIASHUN

Prio:

Appl.No: CN201310555765

IPC: E06B 3/40

CN 104632016 A 说明书附图 1/3 页

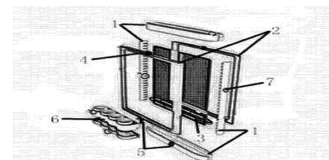


图 1

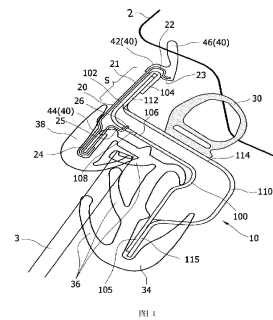
Door frame for vehicle

A door frame for a vehicle for ensuring aesthetic features of the vehicle, reducing the production cost, and minimizing the entire weight may be coupled with a bright molding providing for improving aesthetic features of a vehicle and a door glass run guiding open/close of a door glass. The door frame may include: one outer frame at which the bright molding is mounted; and one inner frame disposed at an internal side compared with the outer frame, coupled with the outer frame. The door glass run may be interposed and coupled between a glass run supporting portion formed at the bright molding and a glass run contact portion formed at the outer frame, and the bright molding may be directly mounted to the outer frame without an additional member.

Publication: [CN 104632017 A 20150520](#)

Applicant: HYUNDAI MOTOR CO LTD
Inventor: IM SANG-YOUNG
Prio: KR 20131108 20130135397
Appl.No: CN201310741696
IPC: E06B 3/44

CN 104632017 A 说明书附图 1/3页



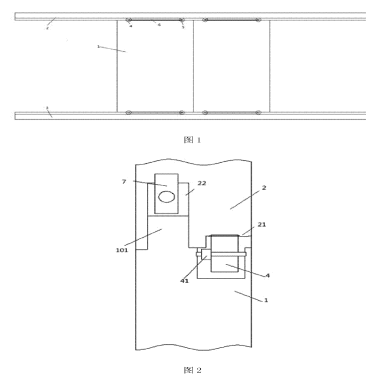
Intelligent building access control system utilizing belt transmission

The invention discloses an intelligent building access control system utilizing belt transmission. The intelligent building access control system comprises a controller and an automatic sliding door. The controller is used for controlling sliding and locking of the automatic sliding door. The automatic sliding door comprises two door sheet parts (1), an upper guide rail part (2) and a lower guide rail part (3). The upper edge and the lower edge of each door sheet part (1) are each provided with two sliding driving gears (4 and 5), wherein the sliding driving gears (4 and 5) are fixedly connected with belt wheels (41), the belt wheels (41) are connected through a transmission belt (6), and one sliding driving gear (4 or 5) is connected with a sliding driving motor.

Publication: [CN 104632018 A 20150520](#)

Applicant: ZHU JUN
Inventor: ZHU JUN
Prio:
Appl.No: CN201510031801
IPC: E06B 3/46

CN 104632018 A 说明书附图 1/2页



Access control system of intelligent building

An access control system of an intelligent building comprises a controller and an automatic sliding door. The controller is used for controlling pushing, pulling and locking of the automatic sliding door. The automatic sliding door comprises a door plate element (1), an upper guide rail element (2) and a lower guide rail element (3), the upper edge and the lower edge of the door plate element (1) are both provided with two pushing and pulling drive gears (4 and 5), each of the pushing and pulling drive gears (4 and 5) is fixedly connected with a belt wheel (41), the belt wheels (41) are connected through a transmission belt (6), and one of the pushing and pulling drive gears (4 and 5) is connected with a pushing and pulling drive motor.

Publication: [CN 104632019 A 20150520](#)

Applicant: YAO WEN

Inventor: YAO WEN

Prio:

Appl.No: CN201510032017

IPC: E06B 3/46

CN 104632019 A 说明书附图 1/2页

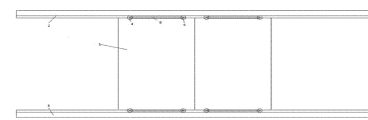


图 1

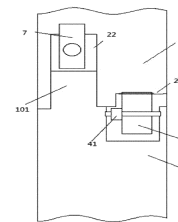


图 2

7

Window capable of conducting self locking

The invention discloses a window capable of conducting self locking. The window is mounted on a wall. The window capable of conducting self locking comprises a window body, a connection piece, springs, an L-shaped lock hook, a cam and a rod piece. When the window is closed and the window is pushed to move towards the wall, the rod piece pushes the top end of the L-shaped lock hook to move backwards, the L-shaped lock hook is made to rotate around the connection piece anticlockwise, a protrusion at the tail end of the L-shaped lock hook enters a groove of a second rectangular cavity and hooks the cavity wall of the second rectangular cavity, and thus self locking is formed. When the window needs to be opened again, the cam is rotated, the diameter of the cam is made to make contact with the rod piece, the rod piece draws back under the action of the first spring, the length of the portion, stretching out of the wall, of the rod piece is decreased, the rod piece rotates under the pull force action of the second spring clockwise, and the front end of the hook does not hook the cavity wall of the second rectangular cavity any more, and thus unlocking is formed. According to the window, traditional window locking steps are omitted, the window is locked while closed, and time and labor are saved.

Publication: [CN 104632020 A 20150520](#)

Applicant: UNIV ZHEJIANG

Inventor: CUI DI; WU HUALIN; YANG QINGHUA

Prio:

Appl.No: CN201510038383

IPC: E06B 3/46

CN 104632020 A 说明书附图 1/2页

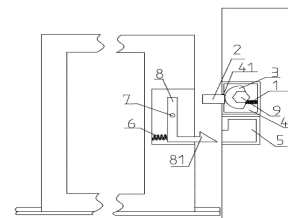


图 1

6

Hood and hood door opening method thereof

The invention discloses a hood and a hood door opening method. The hood is used for covering the external of machinery equipment, and comprises a hood body and a hood door component mounted on the hood body, wherein the hood body comprises a top wall; and the hood door component comprises a hood door positioned in a closing position or an opening position, a hinge for rotating the hood door from the closing position to a middle position parallel to the top wall of the hood body, and a slide mechanism for sliding the hood door from the middle position to the opening position towards the hood cover in the direction parallel to the top wall of the hood body. The hood and the hood door opening method thereof cannot exceed the height of the hood in the whole operation process so as to save the space in the height direction.

Publication: [CN 104632021 A 20150520](#)

Applicant: VEGA CNC TECHNOLOGY SUZHOU CO LTD

Inventor: SHEN HAITAO

Prio:

Appl.No: CN201310546635

IPC: E06B 3/50

CN 104632021 A 说明书附图 1/3 页



图 1

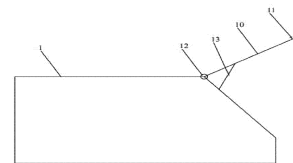


图 2

6

Retaining rail for holding a glass pane, glass pane and fixing method

The invention relates to a retaining rail for holding a glass pane, the glass pane and a fixing method. The retaining rail (2) has a groove (3) for receiving a glass pane (6) between two inner walls (3a, 3b), opposite to each other, of the groove (3), and an intermediate layer (5a, 5b, 5c, 5d) arranged between one of the inner walls (3a, 3b) of said groove (3) and the glass pane (6), wherein the intermediate layer (5a, 5b, 5c, 5d) is adhered with the glass pane (6) and fixed in the groove (3) when the the glass pane (6) is mounted.

Publication: [CN 104632022 A 20150520](#)

Applicant: DORMA DEUTSCHLAND GMBH

Inventor: MARK MAYER

Prio: DE 20130927 102013110747

Appl.No: CN201410505005

IPC: E06B 3/54

CN 104632022 A 说明书附图 1/3 页

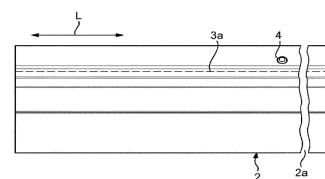


图 1a

8

Ultraviolet-proof hollow glass

The invention provides ultraviolet-proof glass. The ultraviolet-proof glass comprises a frame and glass bodies, and two grooves are formed in the frame; the width of the grooves is the same as that of the glass bodies, and a cavity is formed between the two glass bodies; and an SiO₂ film is arranged on one face, close to the exterior, of the outer layer of each glass body. The ultraviolet-proof glass has the beneficial effects of being simple in structure, reducing the penetration rate of infrared rays and ultraviolet rays, being free of affecting the penetration rate of rays of other wavelengths, ensuring the sufficient rays, meanwhile, reducing the radiation and the like.

Publication: [CN 104632023 A 20150520](#)

Applicant: TIANJIN XINGMINGGUAN METAL PRODUCT CO LTD

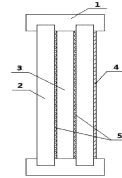
Inventor: WANG GUIMING

Prio:

Appl.No: CN201310566053

IPC: E06B 3/66

CN 104632023 A 说明书附图 1/1 页



5

Radiation protection hollow glass

The invention provides radiation protection hollow glass. The radiation protection hollow glass comprises a frame and glass bodies, wherein the frame is provided with grooves, the widths of the grooves are the same as those of the glass bodies, the glass bodies are arranged in the grooves, two pieces of glass bodies and the frame together form a cavity, and radiation protection films are arranged on the faces, close to the interior and the exterior of the room of glass bodies. The radiation protection hollow glass has the advantages that the structure is simple, the radiation protection performance is strong, and meanwhile, splashing cannot be caused when glasses are broken.

Publication: [CN 104632024 A 20150520](#)

Applicant: TIANJIN XINGMINGGUAN METAL PRODUCT CO LTD

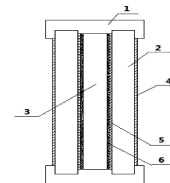
Inventor: WANG GUIMING

Prio:

Appl.No: CN201310567243

IPC: E06B 3/66

CN 104632024 A 说明书附图 1/1 页



5

Heat collection self-cleaning hollow glass

The invention provides heat collection self-cleaning hollow glass. The hollow glass comprises a frame provided with two grooves, self-cleaning glass and heat gathering glass are arranged in the grooves, an anti-explosion film is arranged between the self-cleaning glass and the heat gathering glass, the self-cleaning glass makes contact with the outer side, and a cavity is formed between the two layers of heat gathering glass. The heat collection self-cleaning hollow glass has the advantages that the hollow glass is simple in structure and convenient to install, the solar energy utilization rate is greatly increased, the hollow glass has a good heat-preserving effect for the interior of a room, meanwhile, it can be kept that the glass is clean for a long time, the number of cleaning times is reduced, and the solar energy utilization rate is increased.

Publication: [CN 104632025 A 20150520](#)

Applicant: TIANJIN XINGMINGGUAN METAL PRODUCT
CO LTD

Inventor: WANG GUIMING

Prio:

Appl.No: CN201310568048

IPC: E06B 3/66

CN 104632025 A 说明书附图 1/1 页

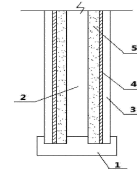


图 1

5

Heat-gathering hollow glass

The invention provides heat-gathering hollow glass which comprises a frame, two grooves are formed in the frame, tempered glass bodies and heat-gathering glass bodies are arranged in the grooves, an explosion-proof membrane is arranged between each tempered glass body and the corresponding heat-gathering glass body, the tempered glass bodies are in contact with the outer sides, and a cavity is formed between the two heat-gathering glass bodies. The heat-gathering hollow glass has the advantages of being simple in structure, convenient to mount and capable of greatly improving the solar energy utilization rate, and having a good heat preservation effect for the indoor space.

Publication: [CN 104632026 A 20150520](#)

Applicant: TIANJIN XINGMINGGUAN METAL PRODUCT
CO LTD

Inventor: WANG GUIMING

Prio:

Appl.No: CN201310568049

IPC: E06B 3/66

CN 104632026 A 说明书附图 1/1 页

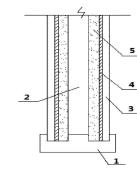


图 1

5

Light reflection hollow glass

The invention provides light reflection hollow glass. The light reflection hollow glass comprises a framework and glass bodies; two grooves are formed in the framework, the width of the grooves is the same as the width of the glass bodies, a cavity is formed between the glass bodies and the framework and is filled with drying air, and the side, close to an outdoor place, of the corresponding glass body is plated with a one-way reflectance coating. The light reflection hollow glass has the advantages that the structure is simple; the effect of seeing an indoor place from the outdoor place is weakened through the one-way reflectance coating, a person can completely see conditions of the outdoor place from the indoor place, and the hiding performance is effectively improved.

Publication: [CN 104632027 A 20150520](#)

Applicant: TIANJIN XINGMINGGUAN METAL PRODUCT CO LTD

Inventor: WANG GUIMING

Prio:

Appl.No: CN201310568050

IPC: E06B 3/66

CN 104632027 A 说明书附图 1/1 页

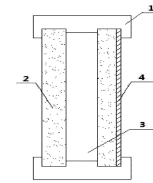


图 1

5

High-strength hollow glass

The invention provides high-strength hollow glass. The high-strength hollow glass comprises a frame and glass bodies; two grooves are formed in the frame, the width of the grooves is the same as the width of the glass bodies, the two glass bodies are arranged in the grooves, a middle membrane is arranged in each glass body, and a cavity is formed between the two glass bodies and is in the volume state. The high-strength hollow glass has the advantages that the strength is high; flushing can be avoided after the glass bodies are broken so that injuries on a person can be avoided; meanwhile, the heat preservation, the thermal insulation, the warming effect in winter, the cooling effect in summer and the like are achieved.

Publication: [CN 104632028 A 20150520](#)

Applicant: TIANJIN BINHAI NEW AREA DAGANG YAFU METAL PRODUCT CO LTD

Inventor: YU WENLING

Prio:

Appl.No: CN201310573655

IPC: E06B 3/66

CN 104632028 A 说明书附图 1/1 页

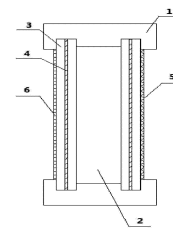


图 1

5

Hollow glass with ventilation function

The invention provides a hollow glass with a ventilation function. The hollow glass comprises a frame and glass bodies, two grooves are formed in the frame, the widths of the grooves are identical with the widths of the glass bodies, the two glass bodies are arranged in the grooves respectively, a cavity is formed between the two glass bodies, vent holes are formed in the portions, in contact with the cavity, of the upper portion and the lower portion of the frame, and wood plugs are arranged at the tail ends of the vent holes. The hollow glass with the ventilation function has the advantages that the structure is simple, drying gas in the hollow glass can be easily replaced, and mist in the hollow glass can not occur.

Publication: [CN 104632029 A 20150520](#)

Applicant: TIANJIN BINHAI NEW AREA DAGANG YAFU
METAL PRODUCT CO LTD

Inventor: YU WENLING

Prio:

Appl.No: CN201310567961

IPC: E06B 3/677

CN 104632029 A 说明书附图 1/1 页

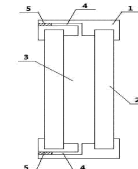


图 1

Automobile door reinforcing plate made of novel material

The invention relates to an automobile door reinforcing plate made of a novel material, and belongs to the field of automobile exterior trimming. The novel material is a cold-rolled bi-directional steel plate. The automobile door reinforcing plate is mainly characterized in that a high-strength steel plate serves as a base material, the steel plate is processed in a cold rolling mode in two directions, and the strength of the steel plate is further improved through paint baking, so that the high-strength automobile door reinforcing plate is formed. The automobile door reinforcing plate has the advantages that the continuous yield ratio is low, work hardening is high, both high strength and high plasticity are achieved, the strength is high, and the automobile door reinforcing plate has good corrosion resistance, can be easily recycled, and has the broad development prospect when automotive materials develop to fulfill the purposes of light weight, energy saving, consumption reduction and emission pollution reduction at present.

Publication: [CN 104632030 A 20150520](#)

Applicant: QINGDAO LIBO AUTO PARTS PREC CASTING
CO LTD

Inventor: CHAI YEFEI

Prio:

Appl.No: CN201310563008

IPC: E06B 3/70

High-brightness reinforced glass door sheet

The invention discloses a high-brightness reinforced glass door sheet. The high-brightness reinforced glass door sheet comprises a UV paint layer arranged on an uppermost layer, a reinforced glass layer arranged on a middle layer and a basic layer arranged on a lowermost layer. The UV paint layer is coated with an ultraviolet light polymerization paint. The basic layer is a calcium silicate board. The UV paint layer takes up 25 percent to 26 percent of the overall weight of the high-brightness reinforced glass door sheet, the reinforced glass layer takes up 35 percent to 40 percent of the overall weight of the high-brightness reinforced glass door sheet, and the basic layer takes up 35 percent to 40 percent of the overall weight of the high-brightness reinforced glass door sheet. The high-brightness reinforced glass door sheet has the advantages of being high in strength, hard in surface, high in brightness, and resistant to high temperature.

Publication: [CN 104632031 A 20150520](#)

Applicant: CHANGSHU BAOCHENG HARDWARE PRODUCTS CO LTD

Inventor: JIN SHAOBAI

Prio:

Appl.No: CN201410807322

IPC: E06B 3/70

Prefabricated structure of composite window/door apparatus using different frame materials

The present invention relates to a prefabricated structure for a composite window/door apparatus using different frame materials. In the present invention, one of the corner pieces is inserted into the corner piece paths of the adjacent first window frames, to connect the corners of the first window frames together. Another corner piece is inserted into the corner piece paths of the adjacent first sash frames, to connect the corners of the first sash frames together. One of the angle pieces is inserted into the angle piece paths of the adjacent first window frames, to reinforce the connection of the corners of the first window frames. Another angle piece is inserted into the angle piece paths of the adjacent first sash frame, to reinforce the connection of the corners of the first sash frames. The window frame compression flanges protrude between the corner piece path and the angle piece path of the first window frame, and the sash compression flanges protrude between the corner piece path and the angle piece path of the first sash frame.

Publication: [CN 104632032 A 20150520](#)

Applicant: IDA CO LTD; KIM SOON-SEOK

Inventor: KIM SOON-SEOK

Prio: KR 20131105 20130133725

Appl.No: CN201410635286

IPC: E06B 3/968

CN 104632032 A 说明书附图 1/7页

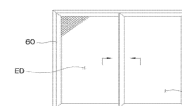


图 1

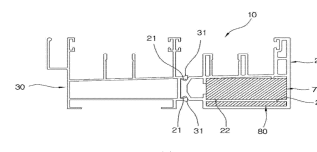


图 2

Escape window for passenger car

The invention discloses an escape window for a passenger car. The escape window comprises a window frame, and is characterized in that inner glass and outer glass are mounted on the two sides of the window frame respectively, the inner glass, the outer glass and the window frame are combined to form a closed cavity, blasting powder grooves are symmetrically formed in the cavity and located in the two edges of the window frame, the blasting powder grooves are filled with blasting powder used for breaking the glass in explosion, and protecting plates used for shielding the blasting powder grooves are symmetrically mounted on the outer side of the inner glass and close to the two sides of the window frame. The escape window is simple in structure, low in cost and safe and reliable in performance, a driver and passengers can be helped to quickly and effectively evacuate when disasters happen, disaster accident losses are lowered, secondary disaster accidents are prevented, and the escape window is suitable for application and popularization.

Publication: [CN 104632033 A 20150520](#)

Applicant: SHAANXI ZIZHU ELECTRON CO LTD

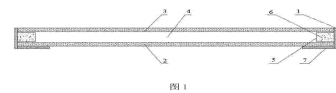
Inventor: TIAN WEIGUO

Prio:

Appl.No: CN201310574673

IPC: E06B 5/00

CN 104632033 A 说明书附图 1/1 页



5

Antitheft door

The invention provides an antitheft door. The antitheft door comprises a door body and a door frame. A mechanical lock and an electronic coded lock are mounted on the door body, and a protection cover is arranged outside a lock hole of the mechanical lock; the protection cover is controlled by the electronic coded lock to be opened; and an infrared sensor and an automatic-shooting anaesthetic rifle are arranged on the door frame. The electronic coded lock and the infrared sensor are connected with the input end a programmable controller, and the automatic-shooting anaesthetic rifle is connected with the output end of the programmable controller; and the programmable controller is mounted in the door body, and the output end of the programmable controller is connected with an alarm system. The antitheft door is simple in structure, reasonable in design, safe and reliable.

Publication: [CN 104632034 A 20150520](#)

Applicant: TIANJIN XINMAO ELECTRONIC TECHNOLOGY ENGINEERING CO LTD

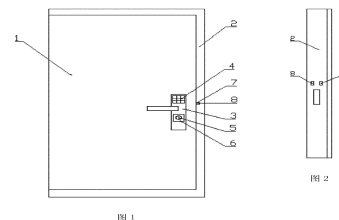
Inventor: SA YUANWEI

Prio:

Appl.No: CN201310552443

IPC: E06B 5/11

CN 104632034 A 说明书附图 1/2 页



5

Novel fingerprint security door

The invention provides a novel fingerprint security door, comprising a door body, and a main door lock and a fingerprint electronic lock which are installed on the door body. The novel fingerprint security door is characterized in that the main door lock is a mechanical lock and comprises a lock cylinder cam, a lock tongue locking piece and a mechanical lock tongue; an electronic lock tongue is driven to move by the fingerprint electronic lock through a control motor of a central processing unit; the electronic lock tongue is positioned at the back end of the mechanical lock tongue; a micro switch is arranged at the front end of the mechanical lock tongue and is connected with the signal receiving terminal of a monitoring system center; the signal output terminal of the monitoring system center is connected with an alarm system. According to the invention, the mechanical lock and the electronic lock are combined, a fingerprint collector and a key of the mechanical lock are integrated, the structure is simple, operation is easy and convenient, the novel fingerprint security door has an alarm function, loss can be effectively prevented and security is high.

Publication: [CN 104632035 A 20150520](#)

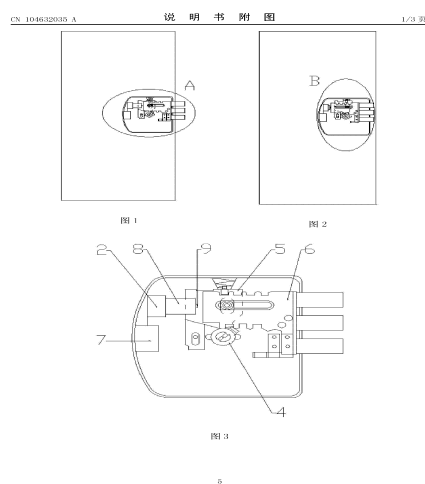
Applicant: TIANJIN XINMAO ELECTRONIC TECHNOLOGY ENGINEERING CO LTD

Inventor: SA YUANWEI

Prio:

Appl.No: CN201310552819

IPC: E06B 5/11



Security door surfaced with veneer and inlaid with decorative plate and manufacturing technique thereof

The invention relates to the technical field of doors and windows, in particular to a security door surfaced with veneer and inlaid with a decorative plate and the manufacturing technique of the security door. The security door comprises a door face, the decorative plate is embedded in a groove, the portions, except the groove, of the surface of the security door is glued with the veneer through a glue layer, and the surface of the veneer is coated with a paint layer. The manufacturing technique of the security door comprises the steps that 1, materials are selected; 2, the door face of the security door is manufactured; 3, the groove is formed; 4, the door face of the security door is coated or sprayed with glue in the proportion of 40-200g/m²; 5, the veneer and the door face are combined, so that the door face, surfaced with the veneer, of the security door is obtained; 6, the surface of the door face, surfaced with the veneer, of the security door is polished, repaired, embellished and painted; 7, the decorative plate is embedded in the groove in the door face, surfaced with the veneer, of the security door. Compared with the prior art, the security door surfaced with the veneer and inlaid with the decorative plate and the manufacturing technique of the security door have the advantages that the fire preventing capacity and the vandal resistance which are the same as those of a traditional security door can be reserved by making a door sheet with different materials, the manufacturing technique is simple, and manufacturing cost is reduced; meanwhile, production efficiency is improved, and the competitiveness of the security door is high.

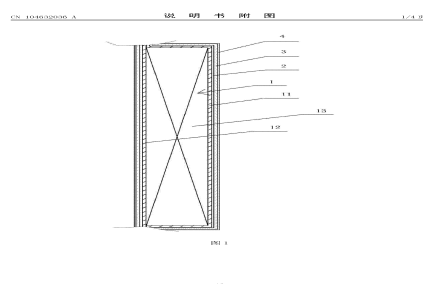
Publication: [CN 104632036 A 20150520](#)

Applicant: ZHEJIANG LIANYING INDUSTRY AND TRADE CO LTD

Inventor: WANG XIAOHUI

Prio:

Appl.No: CN201510046968



IPC: E06B 5/11

Antitheft door with double-door structure

The invention discloses an antitheft door with a double-door structure. The antitheft door comprises a hollow door frame mounted on a wall, two door mounting grooves are formed in the inner side and the outer side of the door frame respectively, an observation outer door and an antitheft inner door are mounted on the two door mounting grooves respectively, locks are mounted in door bodies of the observation outer door and the antitheft inner door, the observation outer door and the antitheft inner door are connected with the door frame through hinges in a mounted manner, and an observation window is arranged on the door body of the observation outer door. The antitheft door meets the requirements of impact resistance, drilling resistance, prying resistance and flame cutting stipulated by national standards, the inside of the antitheft door is filled with macromolecular fireproof sound insulation materials, the minimum sound insulation index of the antitheft door can reach 23 decibels, and the antitheft door is low in heat conductivity and high in heat resistance.

Publication: **CN 104632037 A 20150520**

Applicant: SUZHOU SHENLONG DOORS AND WINDOWS CO LTD

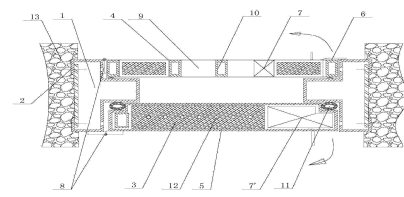
Inventor: HUANG LONGHAI; HUANG YAOQIONG; WU LEI

Prio:

Appl.No: CN201510067462

IPC: E06B 5/11

CN 104632037 A 说明书附图 1/3页



5

Fireproof door with smoke alarm and purification filtering functions

The invention particularly provides a fireproof door with smoke alarm and purification filtering functions. The fireproof door comprises a door leaf, and a smoke alarm device is arranged on the door leaf; a smoke eliminator is arranged on the upper portion of the door leaf, and an exhaust opening is formed in the lower end of the door leaf; an exhaust pipe is arranged in the door leaf; and one end of the exhaust pipe is connected with the smoke eliminator, and the other end of the exhaust pipe is connected with the exhaust opening; a smoke filtering layer is arranged between the smoke eliminator and the exhaust pipe, and an air purifier is connected between the exhaust pipe and the exhaust opening; and an air purifier circuit is in series connection in the smoke eliminator. The smoke alarm device is arranged on the fireproof door, and therefore the smoke alarm device can remind a person of fire happening and also can guide the position of the fireproof door for the person, so that escaping is convenient. In addition, a smoke filtering and purifying device is additionally arranged on the fireproof door, and the hurt of smoke to people is reduced.

Publication: **CN 104632038 A 20150520**

Applicant: SHAANXI TIAN HAO TECHNOLOGY CO LTD

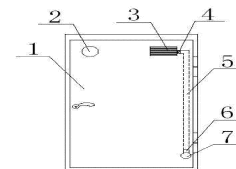
Inventor: SHAO MINGXU

Prio:

Appl.No: CN201310553180

IPC: E06B 5/16

CN 104632038 A 说明书附图 1/3页



5

Escape-convenient fireproof door

The invention specifically provides an escape-convenient fireproof door. The escape-convenient fireproof door comprises a door frame and a door leaf hinged with the door frame, wherein a chute is formed in the top of the door leaf; a slide block is arranged in the chute; an automatic door opening/closing machine is mounted at the top of the door frame; the lower end of the automatic door opening/closing machine is connected with a connecting rod; the other end of the connecting rod is connected with the slide block; an infrared detector is mounted in the automatic door opening/closing machine; a smoke alarm is additionally arranged on the door frame; and a circuit of the smoke alarm is connected with a power supply of the automatic door opening/closing machine. The automatic door opening/closing machine is mounted on the fireproof door, so that the problem of incapability of opening the fireproof to escape due to weight mass of the fireproof door is effectively solved; and meanwhile, the infrared detector is mounted on the fireproof door for automatically detecting escape people to prevent the thought of people how to open the fireproof door in a panic.

Publication: [CN 104632039 A 20150520](#)

Applicant: SHAANXI TIAN HAO TECHNOLOGY CO LTD

Inventor: SHAO MINGXU

Prio:

Appl.No: CN201310553181

IPC: E06B 5/16

CN 104632039 A 说明书附图 1/1 页

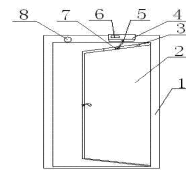


图 1

5

Fireproof door seam covering structure

The invention discloses a fireproof door seam covering structure. The fireproof door seam covering structure comprises a door frame and door leaves. The door leaves comprise the left door leaf and the right door leaf, a seam covering plate is arranged on the left door leaf or the right door leaf and comprises a covering plate connected with the outer side of the left door leaf or the right door leaf and a baffle of which the section is in an L shape, one side of the baffle is connected with the covering plate, and the other side of the baffle faces the right door leaf or the left door leaf so that the overall seam covering plate can be in a Z shape. When the door leaves are closed, the baffle can be tightly attached to the right door leaf or the left door leaf so that the seam between the left door leaf and the right door leaf can be closed. Fire can be effectively prevented from spreading, and smoke can be effectively prevented from dispersing.

Publication: [CN 104632040 A 20150520](#)

Applicant: CHONGQING YUWANTONG NEW MATERIAL TECHNOLOGY CO LTD

Inventor: CHEN XIULI; XU XIAOBO

Prio:

Appl.No: CN201410726161

IPC: E06B 5/16

CN 104632040 A 说明书附图 1/1 页

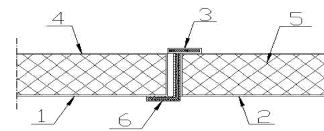


图 1

5

Ventilation opening seal thermal insulation door for grain depot

The invention discloses a ventilation opening seal thermal insulation door for a grain depot. The ventilation opening seal thermal insulation door for the grain depot comprises a door plate (1), a bounding frame (6), a door frame (4), a hollow sealing strip (5), at least one hinge (2) capable of adjusting the gap between the door frame and the door plate and at least one common compressing hand wheel (3), wherein the hollow sealing strip (5) is connected with the bounding frame (6) in a clamping mode, so that the sealing is reliable, the installation and the replacement are easy, the hinge (2) capable of adjusting the gap between the door frame and the door plate and the common compressing hand wheel (3) adjust the compressing degree of the seal thermal insulation door plate (1) is effectively prevented through the pin joint of a first branch part (12), a second branch part (13) and a screw (11) of the hinge (2) capable of adjusting a gap between the door frame and the door plate.

Publication: [CN 104632041 A 20150520](#)

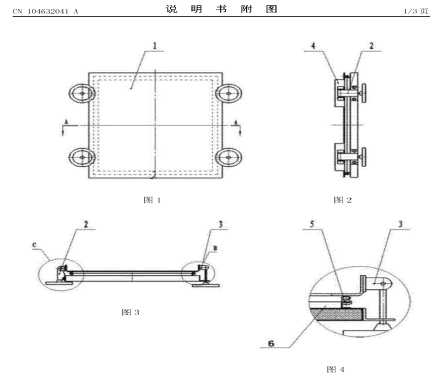
Applicant: ANHUI BOWEI CHANGAN ELECTRONICS CO LTD

Inventor: HE BINBING; LI HUALEI; MA TAO; SHI QI; ZHANG YONG

Prio:

Appl.No: CN201410788115

IPC: E06B 5/16



Method for machining fireproof safety door with foamed aluminum

The invention belongs to the field of manufacturing of safety doors and relates to a method for machining a fireproof safety door with foamed aluminum. The method for machining the fireproof safety door with the foamed aluminum comprises the steps that a foamed aluminum plate is cut according to the specific dimension, the outer side of the foamed aluminum plate is wrapped in two layers of woven polypropylene viscose cloth, a three-dimensional wavy short blend fiber layer adheres to the space between the two layers of woven polypropylene viscose cloth, the outer side of the woven polypropylene viscose cloth is coated with a layer of acrylic resin, the outer side of the acrylic resin is sprayed with a fireproof layer, the outer side of the fireproof layer is wrapped in a layer of stainless steel materials, then a door sheet is obtained, and the fireproof safety door is obtained by wrapping the four edges of the door sheet in a veneer layer. The fireproof safety door manufactured with the method has the advantages of being resistant to high temperature, high in fireproof performance, good in sound insulation effect and noise reduction effect and the like, a door body is easy to machine, easy to install, high in forming precision and capable of being machined easily for the second time, the service life is long, and compared with a door body made of other materials, the door body manufactured with the foamed aluminum according to the method is good in mechanical property, obvious in sound insulation effect, light and convenient to install.

Publication: [CN 104632042 A 20150520](#)

Applicant: LYU JIANFENG

Inventor: LYU JIANFENG

Prio:

Appl.No: CN201410801363

IPC: E06B 5/16

Window with rotating facilities arranged up and down

A window with rotating facilities arranged up and down comprises a window body, a motor and a controller. The middle of heavy sheet glass arranged in the middle of the window body is provided with a movable opening, an upper rotating glass block and a lower rotating glass block which are arranged side by side are arranged in the movable opening, the structure of the upper rotating glass block is in accordance with the structure of the lower rotating glass block, the right end of the upper rotating glass block and the right end of the lower rotating glass block are rotatably matched with an upper edge groove and a lower edge groove respectively, and the left end of the upper rotating glass block and the left end of the lower rotating glass block are connected with the motor. The controller comprises a metal outer shell, a metal inner shell, an input power wire, an output power wire, an insulating plate shaped like a Chinese character 'ji' and an input wax block, an input conducting strip connected to the input power wire and an output conducting strip connected to the output power wire are arranged to be opposite to each other up and down in the metal inner shell. The window with the rotating facilities arranged up and down not only can automatically exhaust air when a fire disaster occurs to reduce the fire damage, but also is simple in structure, higher in practicability, and lower in cost.

Publication: [CN 104632043 A 20150520](#)

Applicant: DONGGUAN PINPAI IND INVEST CO LTD

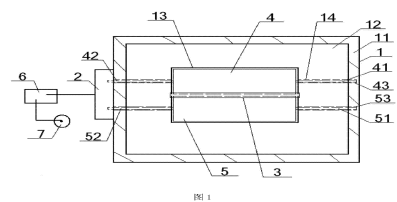
Inventor: WEN YUPING

Prio:

Appl.No: CN201410830745

IPC: E06B 7/02

CN 104632043 A 说明书附图 1/2 页



7

Ventilation window with multiple blades arranged along drive rod in staggered mode

A ventilation window with multiple blades arranged along a drive rod in a staggered mode comprises a window body, a motor and a controller. A movable port is formed in the middle of thick glass arranged in the middle of the window body, and a rotating shaft and the blades connected to the rotating shaft are arranged inside the movable port. A circle with the distance from the peaks of the edge of each blade to the corresponding center portion as the radius and with the center portion as the centers is tangent to a plane where brown paper is located, the plane where the brown paper is located is parallel to blade surfaces of the blades, and one end of the rotating shaft is connected with the drive end of the motor. The controller comprises an outer metal shell, an inner metal shell, an input power line, an outer power line, an n-shaped insulating plate and an input paraffin block. An input conductive sheet connected to the input power line and an output conductive sheet connected to the output power line are arranged inside the inner metal shell in the manner that the input conductive sheet right faces the output conductive sheet. The ventilation window can automatically vent air during fire disasters, reduces fire loss conveniently, and is simple in structure, high in practicability and low in cost.

Publication: [CN 104632044 A 20150520](#)

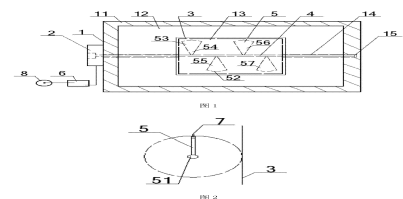
Applicant: DONGGUAN PINPAI IND INVEST CO LTD

Inventor: WEN YUPING

Prio:

Appl.No: CN201410833718

CN 104632044 A 说明书附图 1/2 页



7

IPC: E06B 7/02

Manual operation rolling type window

The invention discloses a manual operation rolling type window, and relates to the field of building closing devices. The manual operation rolling type window comprises a window frame, a transparent soft plastic film, a roll core, a roll shaft, an upright and a ball chain, wherein the roll core is rotationally arranged within the window frame; the roll shaft is horizontally movably arranged on the window frame; the upright is arranged within the window frame; one end of the transparent soft plastic film is arranged on the roll core in a rolling mode, and the other end is arranged on the upright after winding around the roll shaft; the window also comprises a transmission mechanism which drives the roll core and the roll shaft to move and is in mutual linkage with the ball chain, and the transparent soft plastic film can be coiled into the roll core or uncoiled in a window opening. Compared with a glass window, the transparent soft plastic film capable of being coiled is adopted as a window casement in the manual operation rolling type window, so that the cleaning is easy, and nobody else is prone to be hurt in case the transparent soft plastic film is broken; two layers of the transparent soft plastic film separate from each other are formed in the window opening when the window is closed, so that strong functions of sound insulation and heat insulation are achieved.

Publication: [CN 104632045 A 20150520](#)

Applicant: GOOMAX METEL CO LTD FUJIAN
Inventor: CHEN DONGSHENG; CHEN GESHENG; CHEN HUILAN; CHEN JIXIN; CHEN QINGXIANG; CHEN SUMEI; HONG QIANRONG; HU HAO; YAN SEYONG; ZHENG ZHOULI

Prio:
Appl.No: CN201510047811
IPC: E06B 7/02

CN 104632045 A 说明书附图 1/2 页

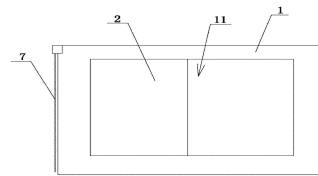


图 1

Shutter door

The invention relates to a shutter door. A traditional shutter antitheft door cannot stop flies and mosquitoes to cause inconvenience for people life, insanitation and unsafety. A door frame of the shutter door is sun-shaped; transverse shutter strips are fixed at the outer sides of upper and lower mouth-shaped frames; detachable combined mesh covers are arranged at the inner sides of the mouth-shaped frames; and a door lock is arranged in the T-shaped joint of the door frame. The shutter door integrates dual functions of the shutter door and a screen door as a whole so as to ventilate, shield the sight of pedestrians, prevent the flies and the mosquitoes and prevent the burglary, has the advantages of simple and stable structure, convenience for production, sanitation, beauty, safety and reliability, and is an ideal shutter door for living.

Publication: [CN 104632046 A 20150520](#)

Applicant: ZHANG YA
Inventor: ZHANG YA
Prio:
Appl.No: CN201310555380
IPC: E06B 7/08

CN 104632046 A 说明书附图 1/1 页

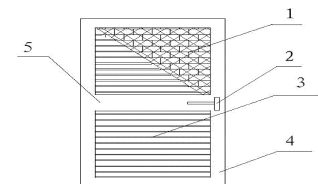


图 1

Connecting assembly used for door and window installation

The invention relates to a connecting assembly used for door and window installation. The problem that according to an existing door and window installing mode, water seepage exists, and fixed connection is inconvenient. The connecting assembly comprises an opening attachment frame, a door and window frame and a connecting assembly body which are assembled together and is characterized in that the connecting assembly body is composed of an inserting core with a threaded hole, a clamping part with an open clamping groove and an adjusting bolt, and the inserting core is inserted into an open inserting groove in the bottom of the door and window frame and moves in the length direction of the open inserting groove in the door and window frame; the clamping part is fixedly connected to the opening attachment frame; one end of the adjusting bolt is connected into the threaded hole in the inserting core through threads, the nut end of the adjusting bolt is clamped with the open clamping groove of the clamping part, and the door and window frame for inserting the inserting core and the opening attachment frame for being fixedly connected with the clamping part are assembled together by screwing down the adjusting bolt. The connecting assembly is simple in structure, reasonable in design and convenient to operate, on-site machining working procedures are reduced, the maintenance cost is reduced, and the on-site installing efficiency is improved.

Publication: [CN 104632047 A 20150520](#)

Applicant: SHENYANG YUANDA TECHNOLOGY PARK CO LTD

Inventor: HAN PING; REN XU; XU CHANGLI

Prio:

Appl.No: CN201410823953

IPC: E06B 7/14

CN 104632047 A 说明书附图 1/2 页

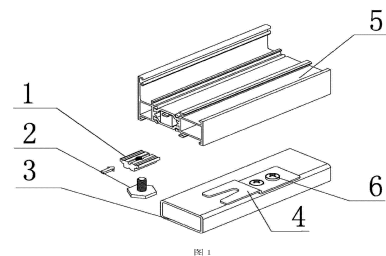


图 1

5

Combined type sealing structure for casement window

The invention relates to a combined type sealing structure for a casement window. The defects that an isobaric duckbilled rubber strip installed in a penetrating and inserting mode is prone to deforming, and leakage points occur in the position connected with an opening sash to affect sealing performance are overcome. The combined type sealing structure comprises an inner sealing rubber strip, an outer sealing rubber strip and an isobaric duckbilled rubber strip, wherein the inner sealing rubber strip and the outer sealing rubber strip are arranged at the lapping position of a window frame and a sash, and the isobaric duckbilled rubber strip is assembled between the window frame and the sash. The combined type sealing structure is characterized in that a clamping head of the isobaric duckbilled rubber strip is inserted into a clamping groove of a heat insulation supporting base, butyl adhesive tape of the flashing end is stuck to the surface of the end of the heat insulation supporting base and the surface of the top of a horn-type notch of the window frame for sealed connection, the duckbilled supporting end is tightly connected with the arc end face of the bottom of a heat insulation strip on the sash, buckles at the two ends of the heat insulation supporting base are clamped into a T-type notch and the horn-type notch in the window frame, and the bottom is supported on the surface of the top of a heat insulation strip of the window frame. The combined type sealing structure is reasonable in design, convenient and fast to operate by the adoption of combined installation, high in work efficiency and good in heat preservation effect, and has the advantages that the space of an airtight cavity in the indoor side is effectively reduced, and the thermal performance and the airtightness are improved.

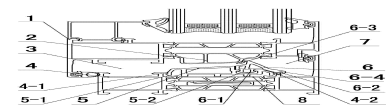
Publication: [CN 104632048 A 20150520](#)

Applicant: SHENYANG YUANDA TECHNOLOGY PARK CO LTD

Inventor: HAN PING; MENG DI; ZHANG CHENGGUO

Prio:

CN 104632048 A 说明书附图 1/2 页



5

Appl.No: CN201410844262
IPC: E06B 7/23

Door opening lamp

The invention discloses a door opening lamp. The door opening lamp comprises a flashlight body, and is characterized in that a closed hoop switch of the flashlight body is arranged on a door frame. The closed hoop switch is mounted in a proper position of the door frame; the closed loop switch and the illumination of the flashlight body can form a closed circuit through an electric wire, and as required, a button can be pressed down; and the door opening lamp is simple in structure and convenient for use.

Publication: **CN 104632049 A 20150520**

Applicant: SHAANXI JOIN CREATE SCIENCE AND TECHNOLOGY CO LTD

Inventor: THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED

Prio:

Appl.No: CN201310551426

IPC: E06B 7/28

CN 104632049 A 说明书附图 1/1 页

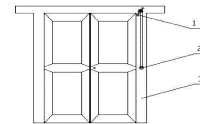


图 1

Remote control door having video function

The invention particularly relates to a remote control door having a video function. The remote control door having the video function comprises a door body and a doorbell; a camera is arranged at the middle upper position of the door body; the main body of the camera is positioned inside the door body, and the camera lens is exposed to the outer surface of the door body; the camera is connected with a processor; the processor is connected with an infrared transmitter; the infrared transmitter is connected with a remote control in a wireless manner. The problem that in the prior art people have to go to the door to see who is outside when the door is remote-controlled to be open by the remote control is solved, and convenience for life is provided.

Publication: **CN 104632050 A 20150520**

Applicant: XI AN QINGYULAN INFORMATION TECHNOLOGY CO LTD

Inventor: WANG ZHIFENG

Prio:

Appl.No: CN201310556081

IPC: E06B 7/28

CN 104632050 A 说明书附图 1/1 页

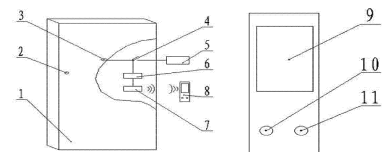


图 1

图 2

Glass outer frame with cleaning brush

Provided is a glass outer frame with a cleaning brush. The glass outer frame with the cleaning brush comprises a frame body. The glass outer frame with the cleaning brush is characterized in that the top and the bottom outside the frame body are provided with water collecting grooves, water outlet holes and water blocking covers are arranged outside the water collecting grooves, the cleaning brush is perpendicularly arranged on one side of the frame body, the height of the cleaning brush is equal to the height of installed glass, and the cleaning brush can move perpendicular to the water collecting grooves. By adopting the above arrangement, when the glass needs to be cleaned, by switching on a control switch, and cleaning brush is driven to carry out cleaning by a motor. In addition, by arranging the water collecting grooves, rainwater can be collected in a rainy day, the glass can be wet by the collected rainwater when cleaning, and the cleaning effect is better.

Publication: [CN 104632051 A 20150520](#)

Applicant: GONG XIANGPING

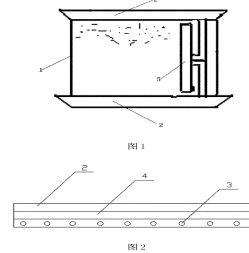
Inventor: GONG XIANGPING

Prio:

Appl.No: CN201310568832

IPC: E06B 7/28

CN 104632051 A 说明书附图 1/3 页



4

Dye-sensitized solar cell window

The invention discloses a dye-sensitized solar cell window which comprises a window frame and a window body, wherein the window frame is installed in a wall frame, and the window body is arranged in the window frame and is made of a dye-sensitized solar cell. The window body is composed of a metal electrode layer, a dye sensitizer layer, an electrolyte layer, a counter electrode layer and a glass layer from outside to inside. The window frame is provided with a two-end socket and a three-end socket, the metal electrode layer is connected with the two-end socket and the three-end socket through a positive electrode lead, and the counter electrode layer is connected with the two-end socket and the three-end socket through a negative electrode lead; the inner side face of the window frame is provided with a groove used for being connected with the window body in a clamped mode, the outer surface of the upper end of the window frame and the outer surface of the lower end of the window frame are provided with clamping grooves connected with the wall frame in a clamped mode, and the window frame is made of aluminum alloy. The dye-sensitized solar cell window is simple in structure, convenient to use, capable of effectively using solar energy, and convenient to use and popularize on high-rise houses.

Publication: [CN 104632052 A 20150520](#)

Applicant: XI AN ZHONGKEMAITE ELECTRONIC TECHNOLOGY EQUIPMENT

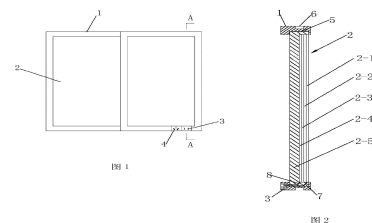
Inventor: MA SHUBO

Prio:

Appl.No: CN201310574706

IPC: E06B 7/28

CN 104632052 A 说明书附图 1/3 页



5

Exhaust type cooling device

An exhaust type cooling device comprises a window arranged on a wall, an exhaust fan and a controller. A moving opening is formed in the middle of thick glass in the middle of the window, the exhaust fan is arranged in the moving opening, the back portion of the exhaust fan is connected with a fixing net rack, brown paper is pasted to the moving opening in the front face of the exhaust fan, and the area of the brown paper is larger than that of the moving opening. The controller comprises a metal outer shell, paraffin blocks, a falling groove, an input power line and an output power line, wherein the input power line in the metal outer shell is arranged over the output power line, and meanwhile, the input power line is bonded to the left wall of the metal outer shell and the falling groove through the paraffin blocks. The exhaust type cooling device can automatically exhaust air in fires and conveniently lower fire losses, and is simple in structure, high in practicability, low in cost and high in firmness.

Publication: [CN 104632053 A 20150520](#)

Applicant: DONGGUAN PINPAI IND INVEST CO LTD

Inventor: WEN YUPING

Prio:

Appl.No: CN201410836395

IPC: E06B 7/28

CN 104632053 A 说明书附图 1/2 页

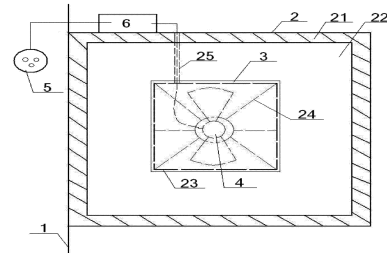


图 1

6

Remote control door with wireless transceiver

The invention specifically relates to a remote control door with a wireless transceiver. The remote control door comprises a door body and a doorbell button, wherein a fixed transceiver is inlaid beside the doorbell button on the door body, and is connected with an indoor mobile transceiver in a wireless manner. The remote control door with the wireless transceiver solves the problem of necessity of running to the door for inquiry due to incapability of determining the identity of outdoor persons when a remote controller is used for remotely controlling the opening and the closing of the remote control door in the prior art, so that the convenience and the speediness are achieved.

Publication: [CN 104632054 A 20150520](#)

Applicant: XI AN QINGYULAN INFORMATION

TECHNOLOGY CO LTD

Inventor: WANG ZHIFENG

Prio:

Appl.No: CN201310556084

IPC: E06B 7/30

CN 104632054 A 说明书附图 1/3 页

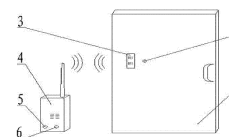


图 1

6

Openable antitheft window mesh strip

The invention provides an openable antitheft window mesh strip. An antitheft mesh frame is provided with an openable door frame through a hinge on the frontal surface of a frame body. Through the settings, the door frame can be opened for accessing when emergencies occur after the installation of an antitheft mesh frame.

Publication: [CN 104632055 A 20150520](#)

Applicant: YICHENG NO 3 SENIOR HIGH SCHOOL

Inventor: WANG LIYANG

Prio:

Appl.No: CN201310543285

IPC: E06B 9/02

CN 104632055 A 说明书附图 1/1页

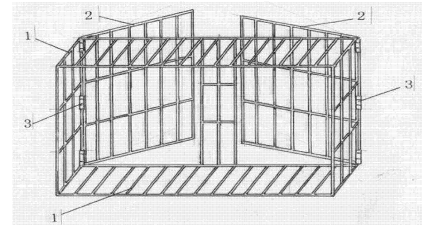


图 1

4

Antitheft life-saving window

The invention discloses an antitheft life-saving window which comprises a fixed window frame, a telescopic window and a locking part. The telescopic window can be arranged on the fixed frame in a sliding mode. The locking part locks the telescopic window to the fixed window frame. The telescopic window comprises at least two cross rods and a telescopic mechanism, wherein the cross rods are arranged on the fixed window frame in a sliding mode in parallel, the telescopic mechanism comprises at least one deformable parallelogram formed by four connecting rods, the head ends of two connecting rods are arranged on one cross rod in a sliding mode, the tail ends of the two connecting rods are hinged to the head ends of the other two connecting rods respectively, and the tail ends of the other two connecting rods are arranged on the other cross rod in a sliding mode. When the antitheft life-saving window is used at ordinary times, the telescopic window is locked to the fixed window frame to achieve the purpose of theft preventing; when emergencies occur, the locking part is unlocked, the folded telescopic window is stretched out to serve as a ladder, a person can escape from the window by climbing down along the telescopic window, operation is convenient, time can be gained for escape, and damage is reduced to the minimum degree.

Publication: [CN 104632056 A 20150520](#)

Applicant: UNIV GUANGXI

Inventor: DUAN YUEXING; HUANG WEI; WANG YONGKANG; XIN XIAOGANG; XU MINMIN; ZHANG YALI; ZHANG ZHANG

Prio:

Appl.No: CN201410781323

IPC: E06B 9/06

CN 104632056 A 说明书附图 1/3页

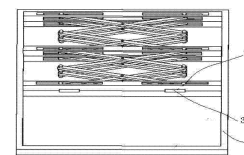


图 1

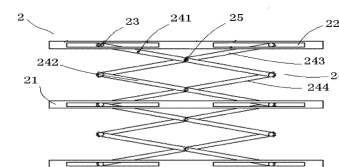


图 2

5

Both-way rolling type window

The invention discloses a two-way rolling type window, and relates to the field of building closing devices. The two-way rolling type window comprises a window frame, wherein the window frame is divided into two window openings by an upright column, each window opening is provided with an upright pole and a roll shaft, the upright column is internally provided with a roll core, the roll core is provided with a transparent soft plastic film with two free ends in a rolling mode, and the two free ends respectively stretch toward the different window openings and are respectively fixed to the upright poles of the corresponding window openings after winding around the roll shafts of the corresponding window openings; the window also comprises an actuating mechanism, and the two free ends of the transparent soft plastic film can be coiled into the roll core or be uncoiled in the corresponding window openings at the same time under the action of the actuating mechanism. The both-way rolling type window has the advantages that the transparent soft plastic film capable of being coiled is adopted as a window casement, so that the cleaning of the inner side and the outer side is easy, and nobody else is prone to be hurt in case the transparent soft plastic film is broken; two layers of the transparent soft plastic film isolated from each other are formed in the window openings when the window is closed, so that strong functions of sound insulation and heat insulation are achieved; the two window openings can be opened or closed at the same time, so that life of people is more convenient.

Publication: [CN 104632057 A 20150520](#)

Applicant: GOOMAX METEL CO LTD FUJIAN
Inventor: CHEN DONGSHENG; CHEN GESHENG; CHEN HUILAN; CHEN JIXIN; CHEN QINGXIANG; CHEN SUMEI; HONG QIANRONG; HU HAO; YAN SEYONG; ZHENG ZHOULI

Prio:
Appl.No: CN201510047215
IPC: E06B 9/08

CN 104632057 A 说明书附图 1/3 页

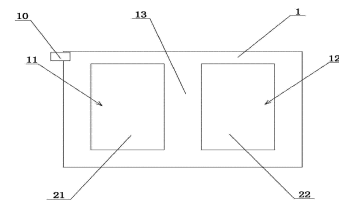


图 1

6

Hollow glass provided with louver inside

The invention provides hollow glass provided with a louver inside. The hollow glass comprises a frame and glass bodies. The frame is provided with two grooves, the width of the grooves is the same as that of the glass bodies, the glass bodies are arranged in the grooves, a cavity is formed between the two glass bodies, the louver is arranged in the cavity, and the louver is connected with a zipper through pulleys. The hollow glass has the advantages that the structure is simple, light intensity can be adjusted more easily, little space is occupied, the hollow glass is simple and practical, and attractiveness is not affected.

Publication: [CN 104632058 A 20150520](#)

Applicant: TIANJIN BINHAI NEW AREA DAGANG YAFU METAL PRODUCT CO LTD
Inventor: YU WENLING

Prio:
Appl.No: CN201310567900
IPC: E06B 9/264

CN 104632058 A 说明书附图 1/3 页

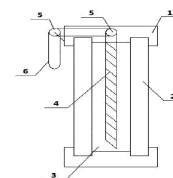


图 1

4

Blade-overturning type electric shutter

The invention provides a blade-overturning type electric shutter. The electric shutter comprises a drive device, a remote controller, window frame guide rails, curtain blades, movable pieces, connecting sections and a curtain bottom piece. The drive device is installed on the top and comprises a drive motor, a roller, a remote control module and an outer shell, wherein the drive motor is connected with the roller, the remote control module is connected with the drive motor, and the outer shell is arranged outside in a sleeving mode. The remote controller is in communication with the remote control module. The window frame guide rails are vertically and oppositely arranged on the two sides. The connecting sections are distantly distributed in the vertical direction. The curtain blades are hinged to low hinging grooves of the upper connecting sections through hinge hooks. The curtain blades are vertically arrayed to form a curtain, and the top end of the curtain is connected with the roller. The movable pieces are flaky, the upper ends of the movable pieces are hinged to hinging grooves of the curtain blades, the lower ends of the movable pieces are connected with upper connecting grooves of the lower connecting sections, and the lower connecting sections are vertically hung underneath the curtain blades through the movable pieces. The curtain bottom piece is connected with the bottom of the curtain. The curtain blades are provided with air vents, and therefore the electric shutter can achieve the ventilation function.

Publication: [CN 104632059 A 20150520](#)

Applicant: GUANGZHOU COMPTON ZHIGAO BUILDING MATERIALS CO LTD

Inventor: LIN YUHUI

Prio:

Appl.No: CN201410818120

IPC: E06B 9/32

CN 104632059 A 说明书附图 1/2 页

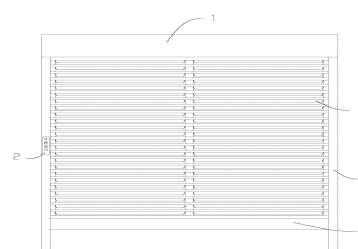


图 1

7

Straight bar type electric louver

The invention provides a straight bar type electric louver. The straight bar type electric louver comprises a driving device, a remote controller, window frame guide rails, curtain sheets and a bottom curtain sheet. The driving device is mounted on the top and comprises a driving motor, a roller, a remote control module and a shell, wherein the driving motor is connected with the roller, the remote control module is connected with the driving motor, and the shell is arranged outside in a sleeving mode. The remote controller is in communication connection with the remote control module. The window frame guide rails are vertically and oppositely arranged on the two sides. The curtain sheets are buckled to one another in a sliding mode in the vertical direction. Each curtain sheet is provided with vent holes used for ventilation. The curtain sheets form a curtain mat, wherein the top end of the curtain mat is connected with the roller so that the curtain mat can be wound around the roller, and the two sides of the curtain mat are embedded in the window frame guide rails. The bottom curtain sheet is connected to the bottom of the curtain mat. According to the straight bar type electric louver, the curtain sheets are provided with the vent holes, so the ventilation function is achieved.

Publication: [CN 104632060 A 20150520](#)

Applicant: GUANGZHOU COMPTON ZHIGAO BUILDING MATERIALS CO LTD

Inventor: LIN YUHUI

Prio:

Appl.No: CN201410818216

CN 104632060 A 说明书附图 1/2 页

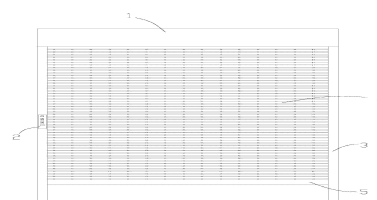


图 1

4

IPC: E06B 9/32

Intelligent roller blind type window

The invention discloses an intelligent roller blind type window, and relates to the field of building closing devices. The intelligent roller blind type window comprises a window frame, transparent soft plastic film, a roll core, a roll shaft and a vertical rod, the roll core, the roll shaft and the vertical rod are all arranged in the window frame, one end of the transparent soft plastic film is arranged in the roll core in a rolling mode, and the other end of the transparent soft plastic film is wound around the roll shaft and then fixed on the vertical rod. The intelligent roller blind type window further comprises a power mechanism which drives the roll core and the roll shaft to move and a control circuit which controls the power mechanism, and the transparent soft plastic film can be furled in the roll core or unfolded in the window under the action of the power mechanism. The intelligent roller blind type window has the advantages that the transparent soft plastic film which can be furled is utilized to serve as a window sash and has the advantages that cleaning is easy and others can not be hurt after the transparent soft plastic film is damaged; when the window is closed, two layers of the transparent soft plastic film which are separated from each other are formed on the window, and the transparent soft plastic film has stronger sound insulation and thermal insulation functions; the window can be automatically closed during wind blowing or raining through the control circuit, window intellectualization is achieved, and the lives of people are more convenient.

Publication: **CN 104632061 A 20150520**

Applicant: GOOMAX METEL CO LTD FUJIAN
Inventor: CHEN DONGSHENG; CHEN GESHENG; CHEN HUILAN; CHEN JIXIN; CHEN QINGXIANG; CHEN SUMEI; HONG QIANRONG; HU HAO; YAN SEYONG; ZHENG ZHOULI

Prio:
Appl.No: CN201510047304
IPC: E06B 9/40

CN 104632061 A 说明书附图 1/10 页

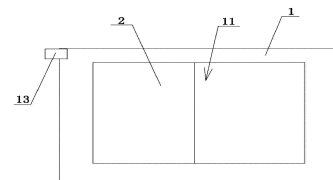


图 1

Intelligent bidirectional roller blind type window

The invention discloses an intelligent bidirectional roller blind type window, and relates to the field of building closing devices. The intelligent bidirectional roller blind type window comprises a window frame, the window frame is divided into two window bodies by a stand column, each window body is provided with a vertical rod and a roll shaft in a matched mode, a roll core is arranged in the stand column, the roll core is provided with transparent soft plastic film in a rolled mode, the transparent soft plastic film comprises two free ends, and the two free ends extend to different window bodies respectively. The intelligent bidirectional roller blind type window further comprises a power mechanism, and the two free ends of the transparent soft plastic film can be simultaneously furled in the roll core or unfolded in the window under the action of the power mechanism. The intelligent bidirectional roller blind type window further comprises a control circuit which enables the window to be automatically closed. The intelligent roller blind type window has the advantages that the transparent soft plastic film which can be furled is utilized to serve as a window sash and has the advantages that inner side cleaning and outer side cleaning are easy and others are not prone to being hurt; when the window is closed, two layers of the transparent soft plastic film which are separated from each other are formed in the window, and the transparent soft plastic film has stronger sound insulation and thermal insulation functions; the window can be automatically closed during wind blowing or raining, and the lives of people are more convenient.

Publication: **CN 104632062 A 20150520**

Applicant: GOOMAX METEL CO LTD FUJIAN

CN 104632062 A 说明书附图 1/10 页

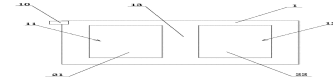


图 1

Inventor: CHEN DONGSHENG; CHEN GESHENG; CHEN HUILAN; CHEN JIXIN; CHEN QINGXIANG; CHEN SUMEI; HONG QIANRONG; HU HAO; YAN SEYONG; ZHENG ZHOULI

Prio:

Appl.No: CN201510047558

IPC: E06B 9/40

Manual operation both-way rolling type window

The invention discloses a manual operation two-way rolling type window, and relates to the field of building closing devices. The manual operation two-way rolling type window comprises a window frame, wherein the window frame is divided into two window openings by an upright column, each window opening is provided with an upright pole and a roll shaft, the upright column is internally provided with a roll core, the roll core is provided with a transparent soft plastic film with two free ends in a rolling mode, and the two free ends respectively stretch toward the different window openings and are fixed to the upright poles of the corresponding window openings after respectively winding around the roll shafts of the corresponding window openings; the window also comprises a ball chain and a transmission mechanism which is linked with the ball chain and drives the roll core and the two roll shafts to move, and the transparent soft plastic film can be coiled into the roll core or uncoiled in the corresponding window opening at the same time under the action of the ball chain. The manual operation both-way rolling type window has the advantages that the transparent soft plastic film capable of being coiled is adopted as a window casement, so that the cleaning of the inner side and the outer side is easy, and nobody else is prone to be hurt in case the transparent soft plastic film is broken; two layers of the transparent soft plastic film isolated from each other are formed in the window openings when the window is closed, so that strong functions of sound insulation and heat insulation are achieved.

Publication: [CN 104632063 A 20150520](#)

Applicant: GOOMAX METEL CO LTD FUJIAN

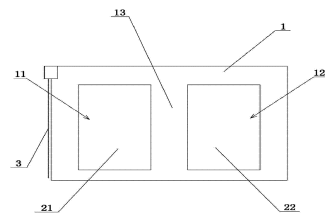
Inventor: CHEN DONGSHENG; CHEN GESHENG; CHEN HUILAN; CHEN JIXIN; CHEN QINGXIANG; CHEN SUMEI; HONG QIANRONG; HU HAO; YAN SEYONG; ZHENG ZHOULI

Prio:

Appl.No: CN201510047661

IPC: E06B 9/40

CN 104632063 A 说明书附图 1/3 页



Shutter type window

The invention creates and discloses a shutter type window, and relates to the field of building closing devices. The shutter type window comprises a window frame, a transparent plastic soft film, a rolling core, a roller and a vertical rod. The rolling core is arranged in the window frame in a rotatable mode. The roller is arranged on the window frame in a leftwards and rightwards slidable mode. The vertical rod is arranged in the window frame. One end of the transparent plastic soft film is wound around the rolling core, and the other end of the transparent plastic soft film is arranged on the vertical rod after being wound around the roller. The window further comprises a power mechanism for driving the rolling core and the roller to move. The transparent plastic soft film can be wound around the rolling core or unwound at a window opening under the action of the power mechanism. The shutter type window has the advantages that compared with an existing glass window, the transparent plastic soft film capable of being wound is adopted as a window sash for the window, the outer side face of the window can be easily cleaned, and the window can not hurt people when damaged; when the window is closed, two separated transparent plastic soft films are formed in the window opening, and the window has a high sound insulation function and a high thermal insulation function.

Publication: [CN 104632064 A 20150520](#)

Applicant: GOOMAX METEL CO LTD FUJIAN
Inventor: CHEN DONGSHENG; CHEN GESHENG; CHEN HUILAN; CHEN JIXIN; CHEN QINGXIANG; CHEN SUMEI; HONG QIANRONG; HU HAO; YAN SEYONG; ZHENG ZHOULI

Prio:
Appl.No: CN201510047812
IPC: E06B 9/40

CN 104632064 A 说明书附图 1/19页

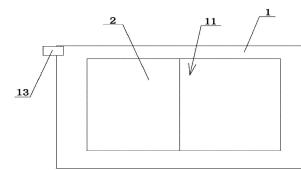


图 1

6

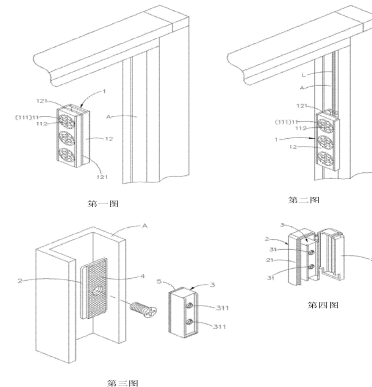
Bracing wire tightness regulator of easy-to-disassemble folded yarn

The invention discloses a bracing wire tightness regulator of an easy-to-disassemble folded yarn. The regulator comprises a connecting member, a bracing wire regulation device, a first connecting unit, and a second connecting unit. The connecting member is disposed on a window frame, and the bracing wire regulating device is provided with at least one regulation and control unit. The first connecting unit and the second connecting unit are disposed between the connecting member and the bracing wire regulation device. By adopting the arrangement of the first connecting unit and the second connecting unit, the bracing wire regulation device can be conveniently combined with the connecting member, and can be easily disengaged from the connecting member, and therefore the convenience of the folded yarn assembly can be improved.

Publication: [CN 104632065 A 20150520](#)

Applicant: TAROKO DOOR & WINDOW TECHNOLOGIES INC
Inventor: ZHANG ZHIYUAN
Prio: TW 20131113 102141579
Appl.No: CN201410160472
IPC: E06B 9/52

CN 104632065 A 说明书附图 1/19页



8

Anti-theft gauze leaf and plastic door and window comprising same

The invention discloses an anti-theft gauze leaf and a plastic door and window comprising the anti-theft gauze leaf. The anti-theft gauze leaf comprises a frame-shaped metal section bar, a metal gauze element, a sealing strip and an anti-theft hook, wherein the metal gauze element is clamped in the frame-shaped metal section bar. A clamping-in opening used for being clamped into a wall bottom frame in a matched mode is formed in one end of the metal section bar, and a clamping opening used for clamping the metal gauze element is formed in the other end of the metal section bar. A cavity is formed in the middle of the metal section bar, two connecting screw holes for connecting adjacent metal section bars are formed in the cavity, one connecting screw hole is close to the clamping-in opening, the other connecting screw hole is close to the clamping opening, a check block protruding inwards is arranged at the opening of the clamping opening, the metal gauze element is embedded in the clamping opening through the sealing strip, and a connecting hole for connecting the anti-theft hook is formed in the indoor position of the metal section bar. Compared with a traditional gauze leaf, the plastic door and window designed, produced and put into use have the advantages of being long in service life, durable, good in anti-theft effect and the like.

Publication: [CN 104632066 A 20150520](#)

Applicant: ANHUI KOYO DOOR & WINDOW ENGINEERING CO LTD

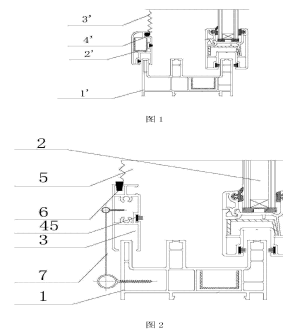
Inventor: SONG HUAJIA

Prio:

Appl.No: CN201410767201

IPC: E06B 9/52

CN 104632066 A 说明书附图 1/2 页



5

Safety device rebounding when meeting obstacle

The invention discloses a safety device rebounding when meeting an obstacle. The safety device comprises a rebounding controller and an ejector rod. The ejector rod is fixed to a door sheet of a roller shutter door. The rebounding controller comprises a magnetically controlled switch and a microswitch. A magnet assembly of the magnetically controlled switch is fixed to the bottom of a door post of the roller shutter door. A reed pipe of the magnetically controlled switch and the microswitch are connected to a roller shutter door control unit and integrated on a circuit board. The circuit board is fixed to a bottom beam of the roller shutter door. The ejector rod triggers the microswitch so that a roller shutter door ascending signal can be sent through the roller shutter door control unit. When the reed pipe inducts the magnet assembly, a roller shutter door closing signal is sent through the roller shutter door control unit. The safety device is wide in using range and sensitive and reliable in reaction, and the safety of the electric roller shutter door is greatly improved.

Publication: [CN 104632067 A 20150520](#)

Applicant: FUJIAN ANLIN INTELLIGENT SCIENCE & TECHNOLOGY CO LTD

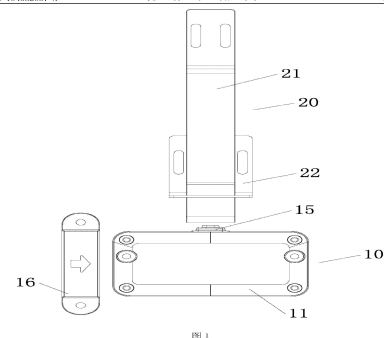
Inventor: GAO QIUBO; LIU-WANG YONGJIE

Prio:

Appl.No: CN201510063080

IPC: E06B 9/68

CN 104632067 A 说明书附图 1/2 页



6

Circular wooden embarkation rope ladder

The invention discloses a circular wooden embarkation rope ladder, and in particular relates to an embarkation rope ladder which is formed by binding circular wooden pedals and ropes. The circular wooden embarkation rope ladder is characterized in that high-quality round wood rods are used as the pedals; fixed grooves and rope penetrating holes are formed near the two ends of the wood rods; the wood rods are bound on two main ropes made from coarse fibers by using ropes made from thin fibers; shackles and lantern rings are configured to manufacture the circular wooden embarkation rope ladder. The circular wooden embarkation rope ladder has the benefits that the limitation of the noncircular pedals during embarkation of the rope ladder is reduced, the efficiency and the comfort degree of the embarkation of the rope ladder are improved, and the security is improved.

Publication: [CN 104632068 A 20150520](#)

Applicant: YANCHENG SHENLI ROPES MFG CO LTD

Inventor: DING YUN; QI XUEQIN; XING JINFENG

Prio:

Appl.No: CN201510089555

IPC: E06C 1/56

CN 104632068 A 说明书附图 1/1 页

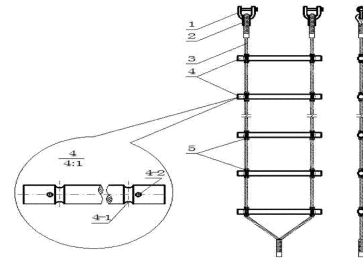


图 1

4

Shower door frame and shower door

The invention relates to the field of bathroom devices, and especially discloses a shower door frame and a shower door. The shower door frame is provided with a rail extending along the horizontal direction, and a side frame perpendicular to the rail. An end part of the rail is fixedly provided with a fixed piece, and an outer side of the fixed piece is provided with a bolt passing through the side frame. The bolt is provided with a stopping part. The side frame is provided with a locking assembly and the locking assembly comprises a fixed pedestal fixed on the side frame, and a tensioning piece which is connected with the fixed pedestal through a connecting rod. The tensioning piece is provided with a locking part which is buckled on the stopping part. The shower door is provided with the above shower door frame, and is provided with a glass plate disposed in the shower door frame.

Publication: [CN 104641064 A 20150520](#)

Applicant: FOSHAN IDEAL SANITARY WARE CO LTD

Inventor: WEI WUXIANG

Prio: CN 20141113 2014090984

Appl.No: CN201480001442

IPC: E06B 3/46

CN 104641064 A 说明书附图 1/8 页

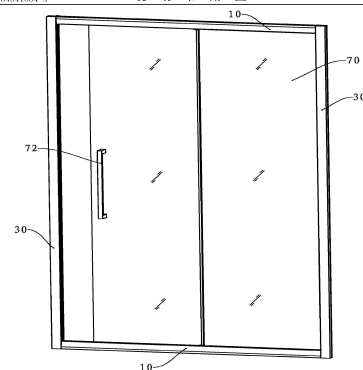


图 1

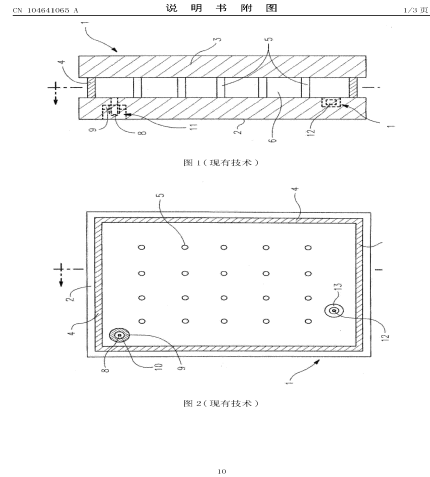
9

Vacuum insulated glass (VIG) window unit with reduced seal height variation and method for making same

A vacuum insulated glass (VIG) window assembly and method for making same is provided in which a variation in the final edge seal height is preferably 0.20 mm or less, more preferably about 0.15 mm or less. Controlling final edge seal height variations substantially reduces breakage of the glass substrates of the VIG window assembly during vacuum pump-down of the cavity between the glass substrates. Edge seal height variation may be controlled, for example, by controlling initial dispensing of green frit material, controlling temperature variations during firing, and/or controlling cycle times during firing.

Publication: [CN 104641065 A 20150520](#)

Applicant: GUARDIAN INDUSTRIES
Inventor: DENNIS TIMOTHY A; PANTKE ANDREW W
Prio: US 20120531 201213484597, US 20130520 2013041747
Appl.No: CN201380040888
IPC: E06B 3/66

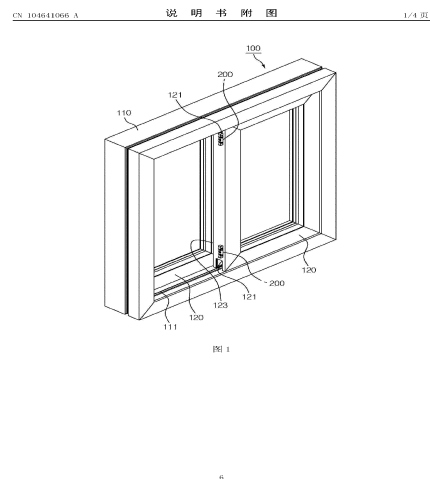


Sliding window with improved air tightness

The present invention relates to a sliding window 100 with improved air tightness including a window frame 110 having a plurality of rails 111 disposed along the longitudinal direction thereof, at least one pair of window sashes 120 slidingly coupled to the rails 111, and wheel assemblies 200 rotatably mounted on facing surfaces 123 of the window sashes 120 laid on each other when the window sashes 120 are closed, whereby at the moment when the wheel assemblies 200 are rolling-contacted with the facing surfaces 123 of the window sashes 120 upon the closing manipulation of the window sashes 120, the window sashes 120 are horizontally moved in the direction perpendicular to the sliding direction thereof.

Publication: [CN 104641066 A 20150520](#)

Applicant: LG HAUSYS LTD
Inventor: KIM JONG-TAE; LEE MI-JIN
Prio: KR 20120814 20120088669, KR 20130730 2013006835
Appl.No: CN201380039283
IPC: E06B 7/16



Moisture-proof and mildew-proof installation method for door pocket line and doorsill stone

The invention relates to the technical field of interior decoration, in particular to a moisture-proof and mildew-proof installation method for a door pocket line and a doorsill stone. In order to overcome the phenomenon that a door pocket of a restroom is affected with damp, the invention provides the moisture-proof and mildew-proof installation method for the door pocket line and the doorsill stone. The moisture-proof and mildew-proof installation method for the door pocket line and the doorsill stone provided by the invention is characterized by comprising the following step of paving a waterproof dam in the doorsill position at the lower part of the door frame of the restroom, wherein the waterproof dam is formed by casting fine aggregate concrete in place; the heights from the waterproof dam to the doorsill are different in accordance with two conditions; if a floor heating system is arranged, the height from the waterproof dam to the doorsill is 18-20 mm; if the floor heating system is not arranged, the height from the waterproof dam to the doorsill is 30 mm. In comparison with the prior art, the moisture-proof and mildew-proof installation method for the door pocket line and the doorsill stone has the beneficial effects that the door pocket is separated from the floor by utilization of a marble doorsill, and water flow is prevented from being contact with the door pocket, so that the moisture-proof and mildew-proof effects are achieved.

Publication: [CN 104653036 A 20150527](#)

Applicant: SHANGHAI JUTONG DECORATION GROUP CO LTD

Inventor: XU GUOJIAN

Prio:

Appl.No: CN201410835392

IPC: E06B 1/34

CN 104653036 A 说明书附图 1/1 页

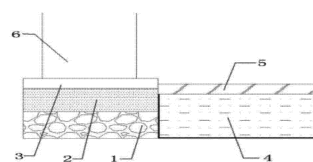


图 1

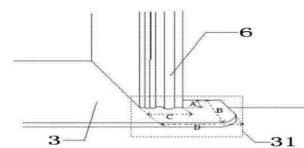


图 2

5

Double-groove sectional material

The invention belongs to the field of building materials and discloses a double-groove sectional material. The double-groove sectional material is provided with a top surface and two side surfaces, and is characterized in that two symmetrical clamping hooks are arranged at the top; the two side surfaces extend downwards along the top; a middle plate is arranged between the two side surfaces; two grooves are formed among the middle plate and the two side surfaces; opening grooves with corresponding positions are formed in the inner sides of the two side surfaces; a plurality of heat radiation strips are arranged on inner and outer side walls of the side surfaces. Thread bottom holes are formed in the middle parts of the two side surfaces. A compound layer is fixed on the lower side surface of the top. The double-groove sectional material has the advantages of simplicity and convenience for mounting and high heat radiation efficiency.

Publication: [CN 104653037 A 20150527](#)

Applicant: WUXI HONGSHENG ALUMINIUM IND

Inventor: WANG HONGCHU

Prio:

Appl.No: CN201410661909

CN 104653037 A 说明书附图 1/1 页

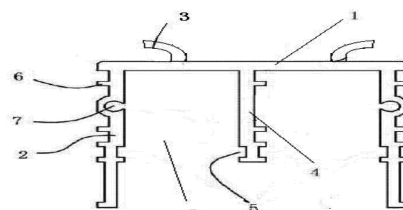


图 1

6

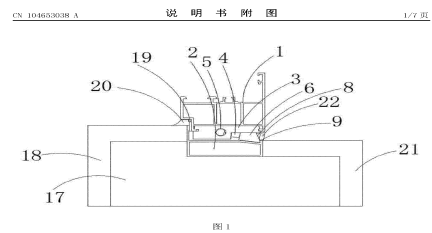
IPC: E06B 3/06

Quickly mounted type fastened door/window and mounting method thereof

The invention relates to a door/window, in particular to a quickly mounted type fastened door/window and a mounting method thereof. The door/window comprises a door/window outer frame and a pre-buried door/window attached frame, wherein a lock pedestal is arranged on the upper part of the pre-buried door/window attached frame; the lock pedestal and the pre-buried door/window attached frame are locked through an adjusting locking mechanism; the door/window outer frame assembled and fixed with the lock pedestal is arranged on the upper part of the lock pedestal. The mounting method comprises the following steps of preparing in advance, mounting the lock pedestal, mounting the door/window outer frame, locking and positioning, additionally arranging a plastering layer, performing reinforcement and sealing treatment, and checking. According to the quickly mounted type fastened door/window and the mounting method thereof, the mounting period is shortened, and the safety is increased.

Publication: [CN 104653038 A 20150527](#)

Applicant: RONG JIONG
Inventor: RONG JIONG
Prio:
Appl.No: CN201510013314
IPC: E06B 3/26

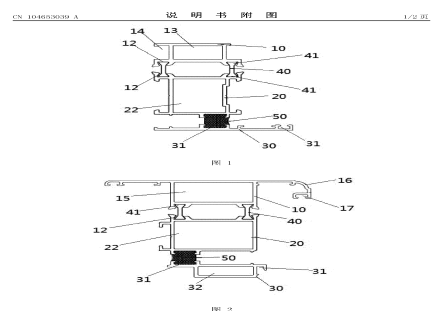


Aluminum alloy profile with double heat insulation broken bridge structures

The invention discloses an aluminum alloy profile with double heat insulation broken bridge structures. The aluminum alloy profile comprises an outer aluminum alloy profile A, a middle aluminum alloy profile B and an inner aluminum alloy profile C, wherein the outer aluminum alloy profile A and the middle aluminum alloy profile B are separated by a strip penetrating type heat insulation strip or an adhesive filling type heat insulation adhesive, the middle aluminum alloy profile B and the inner aluminum alloy profile C are separated by an adhesive filling type heat insulation adhesive or a strip penetrating type heat insulation strip, and then the aluminum alloy profile with the double heat insulation broken bridge structures is formed. The aluminum alloy profile with the double heat insulation broken bridge structures has the advantages that the aluminum alloy profile is separated into three parts by the strip penetrating type heat insulation strips or the adhesive filling type heat insulation adhesives, so the direct contact between the aluminum alloy profiles with good heat conduction property is avoided, heat insulation broken bridges are formed at double sides, and are completely isolated, the integral heat insulation effect of the aluminum alloy profile is optimized, and the energy consumption of air conditioners and the like is decreased.

Publication: [CN 104653039 A 20150527](#)

Applicant: GUANGZHOU OPLV DOOR AND WINDOW SYSTEMS CO LTD
Inventor: KUANG SHUNYOU
Prio:
Appl.No: CN201510066659



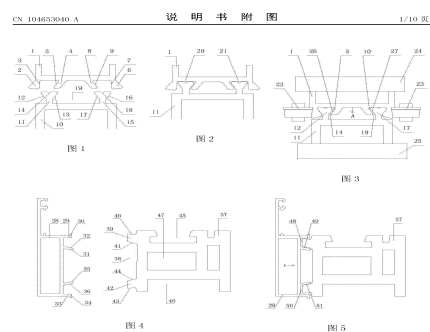
IPC: E06B 3/263

Metal sectional material and heat insulation sectional material assembly structure

The invention provides a metal sectional material and heat insulation sectional material assembly structure. A metal sectional material is positioned at one side or two sides of a heat insulation sectional material, the middle part of an external facade of the heat insulation sectional material is provided with a trapezoidal positioning groove with the smaller inner side and the larger outer side, the upper part of the trapezoidal positioning groove of the external facade is provided with a bulge, the upper part of the bulge is provided with a V-shaped pressing inclined surface, the lower part of the trapezoidal positioning groove of the upper external facade is provided with a bulge of which the lower part is provided with a V-shaped pressing inclined surface, the middle part of the metal sectional material is provided with an upper support bar and a lower support bar, the two support bars are provided with the smaller outer sides and the larger inner sides and are matched with the trapezoidal groove, with the smaller inner side and the larger outer side, formed in the middle part of the heat insulation sectional material, the upper and lower support bars with the smaller outer sides and the larger inner sides are inserted into the trapezoidal groove, with the smaller inner side and the larger outer side, of the heat insulation sectional material, the upper support bar, the lower support bar, the heat insulation sectional material and the metal sectional material vertical plate form air heat insulation cavities, a pressing inclined surface of an upper press plate of the metal sectional material is pressed on the upper V-shaped pressing inclined surface of the upper bulge of the heat insulation sectional material after plastic deformation, a pressing inclined surface of a lower press plate of the metal sectional material is pressed on a lower V-shaped pressing inclined surface of the lower bulge of the heat insulation sectional material after the plastic deformation, and the metal sectional material and the heat insulation sectional material are combined into a whole.

Publication: [CN 104653040 A 20150527](#)

Applicant: WANG GUANGWU
Inventor: WANG GUANGWU
Prio: CN 20141118 201420687023
Appl.No: CN201510085802
IPC: E06B 3/263



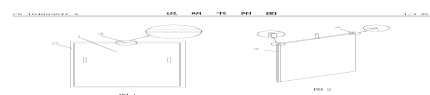
19

Door/window convenient to clean

The invention relates to the technical field of door/window manufacturing, in particular to a door/window convenient to clean. The door/window convenient to clean comprises a window body and a window frame, wherein two rotating shafts are arranged in the middles of the upper and lower ends of the window body, and are movably connected with the middle of the window frame; and two limiting plates are respectively arranged at the two sides of the window body, and are provided with sealing strips. The door/window convenient to clean is simple in structure; as the middle of the window body is connected with the window frame through the rotating shafts, the window body can rotate 90 degrees in opening, and the two sides of the window body can be cleaned to achieve the effects of convenience and speediness; and as the limiting plates at the two sides of the window body are larger than the window frame, the window body can be completely sealed with the window frame.

Publication: [CN 104653041 A 20150527](#)

Applicant: TIANJIN SHENGXU METAL DOORS AND WINDOWS CO LTD
Inventor: LI DONG



19

Prio:
Appl.No: CN201310580779
IPC: E06B 3/40

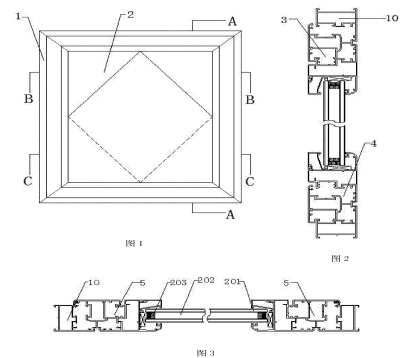
Profile horizontally pivoted hung window

The invention discloses a profile horizontally pivoted hung window. The profile horizontally pivoted hung window comprises a profile horizontally pivoted hung window body, the top of the profile horizontally pivoted hung window body is arranged in a top frame connection structure, the bottom is arranged in a bottom frame connection structure, the two sides of the upper portion of the profile horizontally pivoted hung window body are arranged in upper side frame connection structures, and the two sides of the lower portion of the profile horizontally pivoted hung window body are arranged in lower side frame connection structures. The profile horizontally pivoted hung window has the advantages of being simple in structure, high in symmetry, good in mounting stability, convenient to mount and dismount, good in ventilation performance, high in practicality and good in seal and moisture preservation effects.

Publication: **CN 104653042 A 20150527**

Applicant: ANHUI GAODE ALUMINUM CO LTD
Inventor: HUANG LIN
Prio:
Appl.No: CN201410761724
IPC: E06B 3/40

CN 104653042 A 说明书附图 1/3页



6

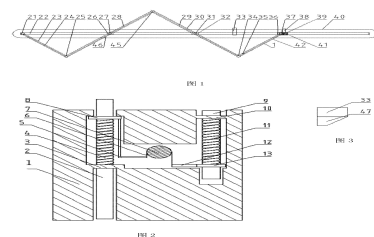
Slipping automatic multi-leaf door with parallelogram push rod pre-opening mechanism

The invention discloses a slipping automatic multi-leaf door with a parallelogram push rod pre-opening mechanism. The slipping automatic multi-leaf door comprises a door frame and a plurality of doors which are connected in sequence by hinges; the first door is connected with the door frame by the hinge; the middle part of the middle door and the tail part of the last door are hinged to a slide block respectively; the slide blocks are mounted on the guide rail and the guide rail is arranged on the door frame; the parallelogram push rod pre-opening mechanism and a chain are arranged above the door frame; an unlocking rod and a delaying control mechanism are mounted on the chain; the slide block connected with the last door is connected with the delaying control mechanism; a locking mechanism is arranged in at least one door; the locking mechanism is controlled by the unlocking rod to be locked or unlocked. The closing and locking actions of the automatic multi-leaf door can be realized at the same time, the control operation is more convenient, the price is cheap and the anti-theft performance is good.

Publication: **CN 104653043 A 20150527**

Applicant: GUANGXI NANNING FANXING TECHNOLOGY CO LTD
Inventor: HUANG JIAFENG
Prio:
Appl.No: CN201510084396

CN 104653043 A 说明书附图 1/2页



7

IPC: E06B 3/48

Push-pull type rotating door/window

The invention relates to the technical field of manufacturing of doors/windows, in particular to a push-pull type rotating door/window. The push-pull type rotating door/window is characterized by comprising a window body and a window frame, wherein the window body is slidingly connected with the bottom of the window frame; a clamping groove is formed in one end of the window frame; a support rod is arranged at one side of the window body, and is provided with a pull rod; the support rod is mounted in a chute; a spring is arranged between the support rod and the chute; and a clamping port is formed in one side of the chute. The push-pull type rotating door/window is simple in structure; as the clamping groove is formed in one side of the window frame, after the window body moves to the clamping groove end, the support rod is pulled out from the chute to achieve a support rotating effect, and the window body can flexibly rotate, so that the universality and the tightness of the door/window are improved.

Publication: [CN 104653044 A 20150527](#)

Applicant: TIANJIN SHENGXU METAL DOORS AND WINDOWS CO LTD

Inventor: LI DONG

Prio:

Appl.No: CN201310580744

IPC: E06B 3/50

CN 104653044 A 说明书附图 1/1 页

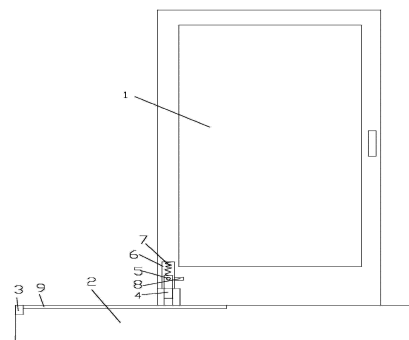


图 1

6

Production method of breathable compound glass

The invention discloses a production method of breathable compound glass. The produced breathable compound glass comprises an edge frame, a floating glass board, a polycarbonate board and armor plate glass; the floating glass board, the polycarbonate board and the armor plate glass are arranged on the edge frame in parallel, and are positioned in sequence; fluorescent layers are coated on the outer surfaces of the floating glass board and the armor plate glass; through holes are formed in the floating glass board, the polycarbonate board and the armor plate glass; the diameters of the through holes are smaller than 1.5 mm; and the through holes are inclined holes downwards inclined from the floating glass board to the armor plate glass. The breathable compound glass can acquire light, can emit light at night, and can realize a certain degree of breathability through the through holes to realize indoor and outdoor air convection.

Publication: [CN 104653045 A 20150527](#)

Applicant: TIANJIN XINGYAO GLASS SALE CO LTD

Inventor: HAN LONGQI

Prio:

Appl.No: CN201310593293

IPC: E06B 3/66

CN 104653045 A 说明书附图 1/1 页

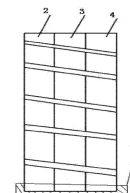


图 1

6

Fingerprint door with electronic screen temperature and humidity displaying meter

The invention belongs to the technical field of mechanical and electrical products, and particularly provides a fingerprint door with an electronic screen temperature and humidity displaying meter. The electronic screen temperature and humidity displaying meter is embedded into the middle of the indoor surface of the fingerprint door body, and a weather and air quality index reminding screen is embedded into the upper portion of the indoor surface of the fingerprint door body. The fingerprint door with the electronic screen temperature and humidity displaying meter solves the problems that an existing fingerprint door is single in function, and no outdoor temperature and humidify reminding and no reminding of weather and air quality indexes of various regions exist. The fingerprint door with the electronic screen temperature and humidity displaying meter saves equipment mounting space, and provides the outdoor temperature and humidify, and weather forecast and air quality of the various regions in time; and scheduling of work and life of people is facilitated, and people can well work and live.

Publication: [CN 104653046 A 20150527](#)

Applicant: SHAANXI TIAN HAO TECHNOLOGY CO LTD

Inventor: SHAO MINGXU

Prio:

Appl.No: CN201310582028

IPC: E06B 3/70

CN 104653046 A 说明书附图 1/1 页

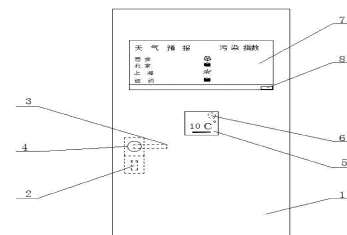


图 1

Fingerprint door with electronic news

The invention belongs to the technical field of mechanical and electronic products, and particularly provides a fingerprint door with the electronic news. The electronic news is embedded into the upper middle portion of the outer surface of a fingerprint door body, and an infrared LED lamp is arranged on the center of the top of the outer surface of the fingerprint door body; the fingerprint door with the electronic news solves the problems that according to an existing fingerprint door, the function is single, no lighting and electronic news exist, and the existing fingerprint door cannot meet living habits of people; and before a user enters the door at night, no light sources exist, and when a customer and friends wait for door opening, no information and entertainment facilities exist. The fingerprint door with the electronic news saves equipment mounting space, and meets the requirement of people for current news entertainment; knowledge of people is increased, and the infrared LED lamp facilitates life of people; and the life quality is improved, and needs of people are met.

Publication: [CN 104653047 A 20150527](#)

Applicant: SHAANXI TIAN HAO TECHNOLOGY CO LTD

Inventor: SHAO MINGXU

Prio:

Appl.No: CN201310582713

IPC: E06B 3/70

CN 104653047 A 说明书附图 1/1 页

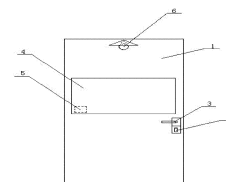


图 1

Moisture-proof composite wooden door

The invention discloses a moisture-proof composite wooden door, and relates to the technical field of manufacturing of door industry. The moisture-proof composite wooden door comprises decorating surface layers, solid wood face layers and core layers, wherein a cavity is formed between the solid wood face layers and the core layers, a moisture-absorbing material fills into the cavity, and a sealing plate is arranged at any end of the cavity. The moisture-proof composite wooden door can solve the problems of easiness in deformation and short service life of the existing composite wooden door.

Publication: [CN 104653048 A 20150527](#)

Applicant: LIUZHOU LINDAO LIGHT WOODEN
STRUCTURE MANUFACTURE CO LTD

Inventor: YAN JUN

Prio:

Appl.No: CN201510088289

IPC: E06B 3/70

CN 104653048 A 说明书附图 1/2页

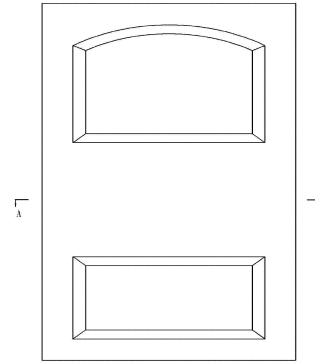


图 1

5

Ventilation door

The invention discloses a ventilation door and relates to the field of construction. The ventilation door comprises a door main body, wherein the lower part of the door main body is provided with a ventilation frame; the interior of the ventilation frame is sequentially provided with a stainless steel tube grille, a metal gauze, a movable filtration core, a sound insulation layer and a seal door from the front surface of the door main body to the back surface of the door main body; the stainless steel tube grille is fixedly arranged on the ventilation frame; the metal gauze is glued at the rear of the stainless steel tube grille; the movable filtration core is movably placed in the ventilation frame; the sound insulation layer and the seal door are glued. The metal gauze is a stainless steel gauze which is prepared by extrusion forming and is provided with decorative patterns; the movable filtration core is made of an NT (Nano Tube) composite nano functional material which is prepared through infiltration by use of a special process; the seal door and the back surface of the door main body are made of the same material. The ventilation door is capable of solving the problem that the physical health and working efficiency of people are influenced since indoor air is not circulated or external vitiated air enters.

Publication: [CN 104653049 A 20150527](#)

Applicant: LIUZHOU LINDAO LIGHT WOODEN
STRUCTURE MANUFACTURE CO LTD

Inventor: YAN JUN

Prio:

Appl.No: CN201510088323

IPC: E06B 3/70

CN 104653049 A 说明书附图 1/2页

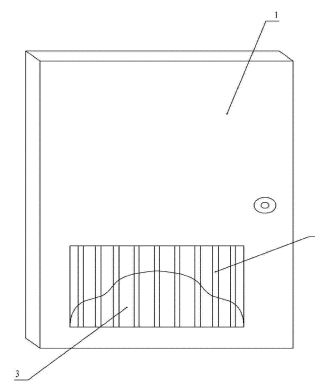


图 1

5

Integrated house antitheft door

The invention discloses a novel antitheft door, in particular an integrated house antitheft door. The integrated house antitheft door is characterized by being formed through once punching a high-quality steel plate of 1.2 mm; 4-6 reinforcing ribs are pressed on the surface of the door; and the back of the door is supported by 4 steel pipes of 20 mm, and can bear the impact of 300 N. As a shock absorber is mounted, the opening of the steel door is silent. A cat ear hole (sight) is mounted in the left upper side of the door, so that people can see clearly visitors outside the door. A three-insurance mortise lock is additionally arranged, so that thieves are difficult to prize up the lock. The integrated house antitheft door has the characteristics of solving of the defects of a traditional antitheft door, capability of bearing higher impact force, silent opening of the steel door, no noise hazard, capability of clearly seeing the visitors outside the door in the house to identify the identities of the visitors and safety enhancement. The three-insurance mortise lock is arranged, so that the thieves are difficult to prize up the lock. The protective performance and the application field of the antitheft door are largely improved through the characteristics.

Publication: [CN 104653050 A 20150527](#)

Applicant: QINGDAO TANGPENG STEEL STRUCTURAL
ENGINEERING CO LTD

Inventor: TANG ZIPENG

Prio:

Appl.No: CN201310586260

IPC: E06B 3/76

Dust-proof and sound-proof window capable of opening and closing automatically

The invention relates to a dust-proof and sound-proof window capable of opening and closing automatically. The dust-proof and sound-proof window capable of opening and closing automatically is provided with a window frame which is fixed to the interior of a wall body or a building structure, and a plurality of window doors which can move in the window frame; window door moving devices are mounted in a window door moving device mounting cabin in the lower part of the window frame; each window door moving device consists of a servo driving motor, lead screws and a sliding block, wherein each servo driving motor is connected with the corresponding sliding block and drives the sliding block through the lead screws; each sliding block is fixedly connected with the corresponding window door; each window door is driven to open and close through the movement of the corresponding sliding block. According to the dust-proof and sound-proof window capable of opening and closing automatically, the conventional gauze window is replaced by utilizing a window door which is provided with a dust-proof and noise-absorbing partition mesh layer. On one hand, the window can opened and closed automatically, easily and conveniently without manual operation by remote control; on the other hand, the defect that the gauze window cannot prevent noises is overcome; the remote control by people can be realized; the ventilation quality is ensured; the problems about convenience, noise prevention, ventilation and the like of the current window are solved.

Publication: [CN 104653051 A 20150527](#)

Applicant: SHANGHAI INST TECHNOLOGY

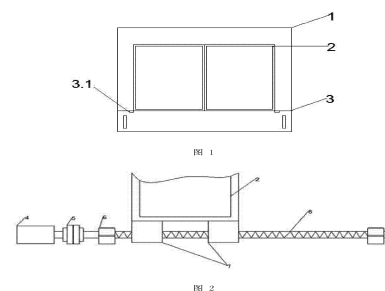
Inventor: CAO HANG; HAN SHUWEI; ZHANG XIAOLIANG;
ZHANG ZHIKAI

Prio:

Appl.No: CN201510045767

IPC: E06B 5/10

CN 104653051 A 说明书附图 1/3页



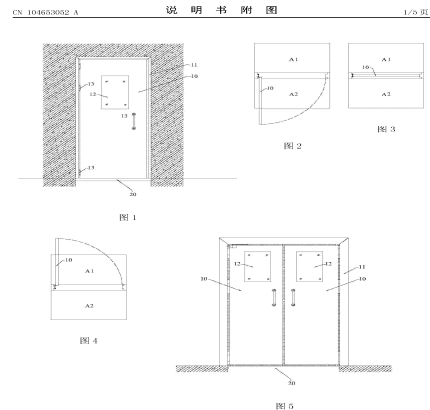
Gravity sensor evacuation safety gate

The invention relates to a gravity sensor evacuation safety gate. The gravity sensor evacuation safety gate can be automatically unlocked and locked by virtue of a gravity sensor, so that the opening time can be effectively saved, the escape probability can be increased, and the gravity sensor evacuation safety gate can be applied to the special firefighting field such as a long large tunnel and the like. The gravity sensor evacuation safety gate comprises a door frame and a door body, wherein one side of the door body is hinged to the door frame through a hinge, and the gravity sensor evacuation safety gate is characterized in that the hinge adopts a self-return elastic hinge, the front side and the rear side of the door body are respectively provided with a front side gravity sensor area and a rear side gravity sensor area, and gravity sensor opening and closing devices acting on the door body are arranged in the front side gravity sensor area and the rear side gravity sensor area.

Publication: [CN 104653052 A 20150527](#)

Applicant: SICHUAN METRO TECHNOLOGY CO LTD
Inventor: LIU XUNBING; XIAO JIAN; ZHANG ZIFENG;
ZHONG XINGCAN; ZHOU CHAO

Prio:
Appl.No: CN201510063744
IPC: E06B 5/10



Antitheft door production manufacturing method

The utility model discloses an antitheft door production manufacturing method. A square metal or wooden framework is chosen as a door frame; one side of a panel is welded or sawed into a zigzag shape; a pulley is respectively installed on the upper and lower ends of the panel; the zigzag-shaped side is correspondingly installed in the door frame; slide rails are installed in the upper and lower ends of the door frame; a spacing pin is disposed in the slide rails; a zigzag door is pulled along the slide rails; and zigzag teeth in the door are closed to form an integral body. A traditional square antitheft door structure is changed; the square door is changed into a zigzag door, so antitheft coefficient is improved and user safety sense is enhanced.

Publication: [CN 104653053 A 20150527](#)

Applicant: HARBIN OMIKE TECHNOLOGY DEV CO LTD
Inventor: WANG TAO

Prio:
Appl.No: CN201310570073
IPC: E06B 5/11

Multi-response video monitoring building antitheft door system

The invention discloses a multi-response video monitoring building antitheft door system. The multi-response video monitoring building antitheft door system is characterized by comprising an infrared response module, a vibration response module, a single-chip module, a camera module and an LED module; and the system working condition is divided into three modes of a normal mode (mode 1), a night mode (mode 2) and an unattended mode (mode 3). The three modes can be set by users; generally, residents select the mode 1 or the mode 2 at home, and can select the mode 3 when going out. The system can perform such corresponding reactions as ringing, shooting and video recording according to the responses performed by visitors in front of the door so as to provide the safety guarantee to the residents.

Publication: [CN 104653054 A 20150527](#)



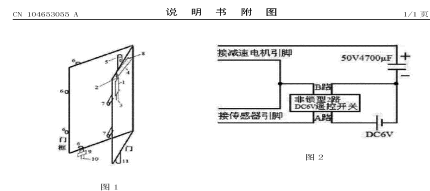
Applicant: QINGDAO TANGPENG STEEL STRUCTURAL ENGINEERING CO LTD
Inventor: TANG ZIPENG
Prio:
Appl.No: CN201310586245
IPC: E06B 5/11

Method for refitting common anti-theft door into remote-control anti-theft door

The invention provides a method for refitting a common anti-theft door into a remote-control anti-theft door. The method is characterized in that a micro gear motor is additionally mounted based on the structure of a common anti-theft door, a pin is mounted on an output shaft, and a cut groove is formed in a lock bolt corresponding to the pin; the motor can drive the pin to do to and fro oscillation at a certain angle, the motor is driven by a circuit to make to and fro rotation, and the motor is controlled by a person pressing buttons of a remote controller. After the common anti-theft door is refitted by the method disclosed by the invention, the anti-theft door can be opened by using a key and the remote code controller besides, so that the safety of the anti-theft door is improved. The method is simple to operate, is safe and reliable to operate for a long time, and is good in anti-theft performance.

Publication: [CN 104653055 A 20150527](#)

Applicant: QINGDAO TANGPENG STEEL STRUCTURAL ENGINEERING CO LTD
Inventor: TANG ZIPENG
Prio:
Appl.No: CN201310586248
IPC: E06B 5/11

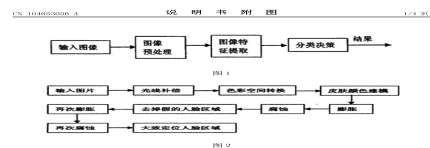


Security door system based on face recognition

The invention discloses a security door system based on face recognition. The system comprises such functions as face detection, face positioning, feature extraction and face recognition. The system is mainly applied to a keyless security door, and has a certain constraint conditions, such as simpler background. Faces have no large-amplitude posture change, and are more uniform in light. The safety and the efficiency of the system are determined by a similarity threshold; the selection of the similarity threshold is the most important; if the similarity threshold is too great, persons having the authority to unlock cannot be authenticated, and cannot pass through; and if the similarity threshold is too small, the safety is reduced, and persons having no authority can be authenticated. The system can realize automatic recognition of owners, so that the safety of living and working places is largely improved, and the convenience is provided for out life.

Publication: [CN 104653056 A 20150527](#)

Applicant: QINGDAO TANGPENG STEEL STRUCTURAL ENGINEERING CO LTD
Inventor: TANG ZIPENG
Prio:
Appl.No: CN201310586252



IPC: E06B 5/11

Improvement method of house antitheft door

The invention discloses an improvement method of a house antitheft door. The improvement method is characterized by respectively improving a hinge device of the house antitheft door, a reinforcing rib of a door leaf and the drilling and gas cutting damage prevention of a lock. The improvement method eliminates the worries of residents for preventing the burglary, and achieves the active effect.

Publication: [CN 104653057 A 20150527](#)

Applicant: QINGDAO TANGPENG STEEL STRUCTURAL
ENGINEERING CO LTD

Inventor: TANG ZIPENG

Prio:

Appl.No: CN201310586266

IPC: E06B 5/11

Novel composite material warehouse antitheft door

The invention discloses a novel material antitheft door, in particular a novel composite material warehouse antitheft door, and is suitable for an antitheft door industry. The novel composite material warehouse antitheft door is characterized by being produced through mixing carbon fibers and glass fibers, wherein a microcrystal graphite material is obtained through performing the carbonization and the graphitization for organic fibers; and the microstructure of inorganic macromolecule fibers with the carbon content of 85-95% is a disordered-layer graphite structure. The ratio of the carbon fibers is higher than the ratio of the glass fibers in mixing. The novel composite material warehouse antitheft door has the following characteristics: the carbon fibers have the characteristics of general carbon materials, such as high-temperature resistance, wear resistance, electric conductivity, heat conductivity and corrosion resistance, and have the characteristics of high comprehensive performance, high strength, strong bearing capacity, stronger pressure resistance, corrosion resistance and durability.

Publication: [CN 104653058 A 20150527](#)

Applicant: QINGDAO TANGPENG STEEL STRUCTURAL
ENGINEERING CO LTD

Inventor: TANG ZIPENG

Prio:

Appl.No: CN201310586271

IPC: E06B 5/11

Novel remote control antitheft door

The invention discloses a novel antitheft door, in particular to a novel remote control antitheft door, and is suitable for a modern antitheft door industry. A micro speed reducing motor is additionally mounted on the basis of a common antitheft door structure; a pin is mounted on an output shaft; and an incision is cut in a spring bolt corresponding to the pin. After the antitheft door is normally locked by a key (primary locking), a remote controller is used for driving the speed reducing motor to rotate so as to drive the pin to be clamped into the incision, so that the spring bolt can be stopped from shrinking (secondary locking); and if the spring bolt cannot shrink, the antitheft door cannot be opened. The antitheft door can be opened by synchronously having the key and the password remote controller, so that the safety of the antitheft door is improved. The novel remote control antitheft door has the advantages of simple and feasible method, long-time operation, safety, reliability and good antitheft performance.

Publication: [CN 104653059 A 20150527](#)

Applicant: QINGDAO TANGPENG STEEL STRUCTURAL
ENGINEERING CO LTD

Inventor: TANG ZIPENG

Prio:

Appl.No: CN201310586275
IPC: E06B 5/11

Novel antitheft door

The invention discloses a novel antitheft door. The novel antitheft door comprises a door frame, an aluminum alloy covered edge, a skeleton, a sealing rubber strip, a detecting groove, a multi-spring bolt lock rod, a door leaf outer color plate, a macromolecule filler, a steel wire mesh, an inner door leaf color plate, a stainless steel hinge and an expansion bolt. The skeleton and the outer covered edge of the antitheft door are lower than the plane of the door leaf outer color plate; and when the door leaf outer panel and the metal door frame are located in a close state, a gap is 0.5 mm.

Publication: **CN 104653060 A 20150527**

Applicant: QINGDAO TANGPENG STEEL STRUCTURAL
ENGINEERING CO LTD

Inventor: TANG ZIPENG

Prio:

Appl.No: CN201310586283

IPC: E06B 5/11

CN 104653060 A 说明书附图 1/1 页

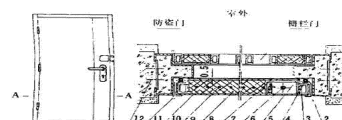


图 1

Environment-friendly antitheft door of galvanized sheet

The invention discloses indoor antitheft door materials, and particularly relates to an environment-friendly indoor antitheft door made of a novel galvanized sheet material. According to the technical scheme, hot galvanizing is adopted, and then passivating treatment needs to be carried out; a chromate(hexavalent chromium) passivating method is adopted in the hot galvanized sheet to carry out treatment; and then, nano particles are added on a base body of an original galvanized sheet material, and the advantages of the nano particles and the original galvanized sheet material are integrated. The environment-friendly indoor antitheft door has the advantages that a zinc coating improves the strength of the antitheft door; due to good lubrication and low friction of nano, the nano micro particles are added, and high-speed flowing of cooling liquid inside the door is reinforced; and the nano materials can decompose harmful matter in air, and the air is purified while the temperature is changed. The method is simple, and combination performance of a passivation coating and the base body is good; and the environment-friendly indoor antitheft door is high in corrosion resistance and has the self-repairing capability.

Publication: **CN 104653061 A 20150527**

Applicant: QINGDAO TANGPENG STEEL STRUCTURAL
ENGINEERING CO LTD

Inventor: TANG ZIPENG

Prio:

Appl.No: CN201310586289

IPC: E06B 5/11

Antitheft door with surface coated with glass fiber reinforced plastics

The invention discloses indoor antitheft door materials, and particularly relates to an indoor antitheft door with a surface coated with glass fiber reinforced plastics. The antitheft door is technically characterized in that surface coating is an effective measure for high quality and multiple functions of the surface of a glass fiber reinforced plastic product, and the product formula and the technology condition of the glass fiber reinforced plastics do not need to be changed. In the forming process of the glass fiber reinforced plastic product or after the glass fiber reinforced plastic product is formed, surface coating is carried out, and different kinds of glass fiber reinforced plastics are used. The antitheft door is characterized in that due to the good surface performance and other functions of the glass fiber reinforced plastics, the service life of the glass fiber reinforced plastics is prolonged, and use cost is reduced; inorganic water-borne coatings are made of inorganic materials, and coated volatile matter is water; and no environment pollution exists, and the coating can be cleaned by itself; the thickness of the coating is reasonable, so that the adhesive force, the weather fastness and the corrosion resistance of the coating are good. The antitheft door has the advantages of high decoration, heavy corrosion protection, ultra durable performance, functionalization, convenient construction and the like.

Publication: [CN 104653062 A 20150527](#)

Applicant: QINGDAO TANGPENG STEEL STRUCTURAL
ENGINEERING CO LTD

Inventor: TANG ZIPENG

Prio:

Appl.No: CN201310586306

IPC: E06B 5/11

Antitheft lock of door

The invention provides an antitheft lock of a door. The antitheft lock comprises a lock body which can be mounted on the door to be used and provided with a key inserting hole and further comprises a fingerprint input button and a password input key. Due to multiple kinds of arrangement, the antitheft lock has the antitheft effect.

Publication: [CN 104653063 A 20150527](#)

Applicant: ZHUGELIANG MIDDLE SCHOOL

Inventor: WANG QIANRU

Prio:

Appl.No: CN201310593311

IPC: E06B 5/11

CN 104653063 A 说明书附图 1/1 页

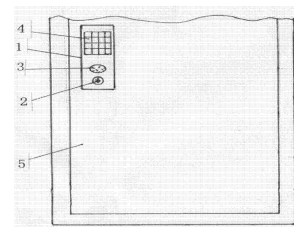


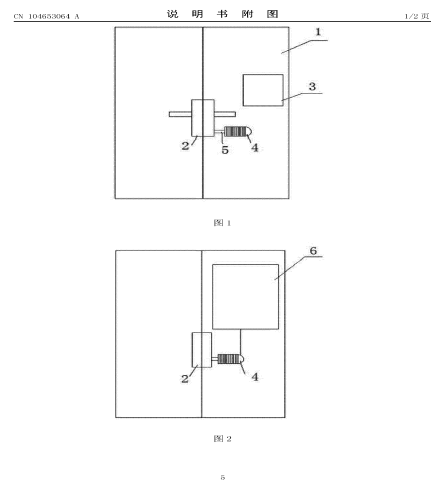
图 1

Anti-theft door with time setting and automatic locking functions

The invention discloses an anti-theft door with time setting and automatic locking functions. A timed touch screen is arranged on the front side surface of a door body; a photoelectric sensor is arranged on the side of the door body; a control circuit board is arranged in the interlayer of the door body and comprises a power module, a master control module and a starting switch; the master control module is bidirectionally and electrically connected with the timed touch screen and the photoelectric sensor; the master control module is in output connection with the starting switch; the power module is in electrical output connection with the master control module, the starting switch, the timed touch screen and the photoelectric sensor; the starting switch is in electrical output connection with a driving motor; and the driving motor is in transmission connection with a lock body by virtue of a driving shaft. According to the anti-theft door with the time setting and automatic locking functions, the driving motor can be controlled to drive the lock cylinder of the lock body by virtue of a control circuit capable of setting the locking time so as to automatically lock the lock body, and great convenience is brought for locking the anti-theft door disclosed by the invention.

Publication: [CN 104653064 A 20150527](#)

Applicant: ZHANG HUIHUI
Inventor: ZHANG HUIHUI
Prio:
Appl.No: CN201510113704
IPC: E06B 5/11



Fireproof door

A fireproof door comprises a door board, and a plurality of temperature sensors and vibration sensors re arranged below a surface layer of the door board; the temperature sensors and the vibration sensors are in output connection with a controller; and the control end of the controller is connected with an electronic door lock. Fireproof performance and an escape channel are both taken into account, and particularly, when major natural disasters like earthquake happen, an escape door is provided.

Publication: [CN 104653065 A 20150527](#)

Applicant: XI AN UNITED TRANSP FACILITIES
ENGINEERING CO LTD
Inventor: CAO YONGSHENG
Prio:
Appl.No: CN201310593403
IPC: E06B 5/16

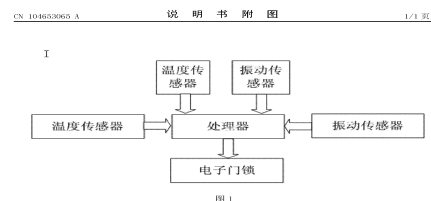


Plate for normally-closed fireproof door

The invention discloses a plate for a normally-closed fireproof door. The plate comprises a first steel plate surface layer, a second steel plate surface layer, a first heat absorbing layer, a second heat absorbing layer and an asbestos flame retarding layer, wherein the asbestos flame retarding layer is positioned between the first steel plate surface layer and the second steel plate surface layer; the second steel plate surface layer is positioned between the second heat absorbing layer and the asbestos flame retarding layer; and the first steel plate surface layer is positioned between the first heat absorbing layer and the asbestos flame retarding layer. The plate for the normally-closed fireproof door uses the heat absorbing layers for absorbing the heat, so that the temperature of a door sheet rises so as to sense the fire condition beforehand.

Publication: [CN 104653066 A 20150527](#)

Applicant: XI AN UNITED TRANSP FACILITIES
ENGINEERING CO LTD

Inventor: CAO YONGSHENG

Prio:

Appl.No: CN201310593448

IPC: E06B 5/16

CN 104653066 A 说明书附图 1/1 页

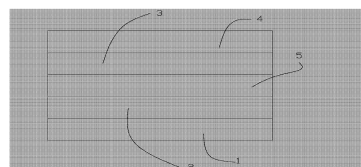


图 1

5

Fireproof door

The invention discloses a fireproof door. The fireproof door comprises a door sheet, wherein the door sheet comprises a first refractory steel plate and a second refractory steel plate; a first ceramic thermal insulating plate and a second ceramic thermal insulating plate are arranged between the first refractory steel plate and the second refractory steel plate; a water accumulating cavity for accumulating water is formed between the first ceramic thermal insulating plate and the second ceramic thermal insulating plate; a coded lock is mounted on the door sheet; a smokeproof adhesive tape is bonded at the edge of the door sheet; and a camera is mounted above the door sheet. The fireproof door retards the flame through setting the refractory steel plates, and stops the heat through setting the ceramic thermal insulating plates at the inner layers of the refractory steel plates; meanwhile, in order to achieve a better thermal insulating effect, the hollow water accumulating cavity is formed in the door sheet, and the water accumulating water can further reduce the temperature of the door sheet after the water accumulation, so that the indoor heating process is slower to gain more rescue time for firefighters and indoor staff.

Publication: [CN 104653067 A 20150527](#)

Applicant: XI AN ALL SAFE SCI & TECH CO

Inventor: YANG PING

Prio:

Appl.No: CN201310593467

IPC: E06B 5/16

CN 104653067 A 说明书附图 1/2 页

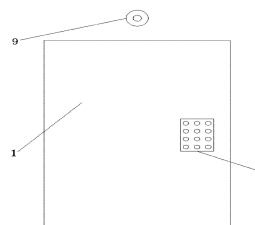


图 1

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Fireproof steel structural door

The invention provides a fireproof steel structural door. The fireproof steel structural door comprises cross beams and a bracket which are fixedly connected by welding; a porous glass panel is arranged between the cross beams at two sides of the bracket and is fixedly connected with the cross beams through angle steels; a plurality of through holes which pass through the whole bracket are formed in the bracket; a transverse separating plate and a longitudinal separating plate are arranged on the bracket; one of the surfaces of the transverse separating plate and the longitudinal separating plate are arranged from the bracket, and while the other one of the surfaces of the transverse separating plate and the longitudinal separating plate are ended in the porous glass panel; the transverse separating plate is manufactured from 45 steel and welded on the bracket; the transverse separating plate, the longitudinal separating plate, the bracket and the porous glass panel form an independent space in which NaHCO_3 and $\text{Al}_2(\text{SO}_4)_3$ powder can be positioned at intervals; the longitudinal separating plate is manufactured from low-melting-point alloy which is bismuth and tin low-melting-point alloy. According to the fireproof steel structural door, the fire is prevented and extinguished by the mode of powder reacting and fire extinguishing mode; the fireproof steel structural door is lightweight and firm in structure.

Publication: [CN 104653068 A 20150527](#)

Applicant: TIANJIN HENGHUA STEEL STRUCTURE PROC
CO LTD

Inventor: WANG YONGSHU

Prio:

Appl.No: CN201310605953

IPC: E06B 5/16

CN 104653068 A 说明书附图 1/1 页

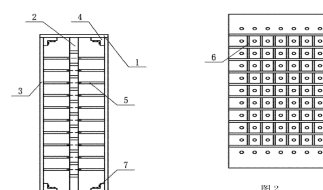


图 1

图 2

5

Sound insulation composite wooden door

The invention discloses a sound insulation composite wooden door, and relates to the technical field of manufacturing of door industry. The sound insulation composite wooden door comprises decorating surface layers, wood face layers and a filling core layer, wherein the filling core layer is arranged between the wood face layers and consists of sound insulation plates and a sound insulation material. The sound insulation composite wooden door can solve the problem of poor sound insulation effect of the existing composite wooden door.

Publication: [CN 104653069 A 20150527](#)

Applicant: LIUZHOU LINDAO LIGHT WOODEN
STRUCTURE MANUFACTURE CO LTD

Inventor: YAN JUN

Prio:

Appl.No: CN201510088316

IPC: E06B 5/20

CN 104653069 A 说明书附图 1/2 页

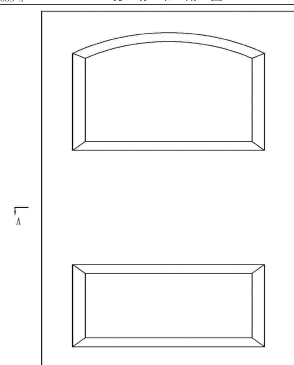


图 1

4

Fingerprint door having ventilating fan and electronic fragrant machine

The invention belongs to the technical field of electromechanical products, in particular provides a fingerprint door having a ventilating fan and an electronic fragrant machine; the ventilating fan is mounted at the right upper corner in a fingerprint door body room; and the electronic fragrant machine is mounted in the middle of the inner surface of the fingerprint door body room. The fingerprint door having the ventilating fan and the electronic fragrant machine solves the problems of single function, no possession of the ventilating fan and the electronic fragrant machine and muddy air in the room in a traditional fingerprint door. The fingerprint door having the ventilating fan and the electronic fragrant machine saves the equipment mounting space, improves the indoor air quality, is beneficial to the health, and satisfies the people demands.

Publication: [CN 104653070 A 20150527](#)

Applicant: SHAANXI TIAN HAO TECHNOLOGY CO LTD

Inventor: SHAO MINGXU

Prio:

Appl.No: CN201310582381

IPC: E06B 7/02

CN 104653070 A 说明书附图 1/3 页

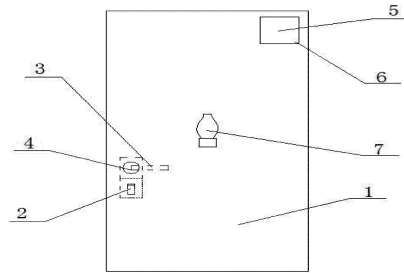


图 1

5

Method of introducing air from building doors and windows and air purification

Disclosed is a method of introducing air from building doors and windows and air purification. The building doors and windows comprise door and window openings formed in a building. The method includes the steps of before mounting doors and windows to the door and window openings, mounting an upper auxiliary frame section, a lower auxiliary frame section, a left auxiliary frame section and a right auxiliary frame section on the inner sides of the window and door openings, and then mounting door and window frames to the inside of the four auxiliary frame sections, wherein at least one the four auxiliary frame sections is provided with an air purification cavity structure internally mounted with an air purification device to form a fresh air and air purification system. The method of introducing air from the building doors and windows and air purification has the advantages of being easy to implement, avoiding affecting the building structure and the building facade, obtaining easy and reliable mounting, being capable of introducing outside fresh air and achieving an air purification function and internal circulation of indoor air and the like.

Publication: [CN 104653071 A 20150527](#)

Applicant: ZHEJIANG ROOMEYE ENERGY SAVING TECHNOLOGY CO LTD

Inventor: DONG CHENGMING; PAN LINJIE; WU WEIXING; ZHANG ZHUYI

Prio:

Appl.No: CN201410564319

IPC: E06B 7/10

CN 104653071 A 说明书附图 1/3 页

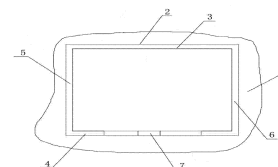


图 1

5

Air duct structure attached to door and window auxiliary frame structure

Provided is an air duct structure attached to a door and window auxiliary frame structure. The door and window auxiliary frame structure is formed by an upper auxiliary frame section, a lower auxiliary frame section, a left auxiliary frame section and a right auxiliary frame section which are arranged and connected on the inner side wall of a door and window opening and mounted between the door and window opening and a door and window frame. At least one of the four auxiliary frame sections is an energy-saving auxiliary frame section. The energy-saving auxiliary frame section is formed by an outer section and an inner section which are connected through an insulating block between the outer section and the inner section. The inner section is provided with an inner notch. An air outlet section is of a non-fully enclosed section structure. The cross section of the air outlet section is composed of a cavity formed by a straight section and an arc-shaped section with an arc. The side surface of the arc-shaped section with the arc is fitted to the inner side wall of the inner section, the position facing a room, of the arc-shaped section is in 7-shaped edge banding, a gap is formed between the end surface of the 7-shaped edge banding and the side facing the room, of the end surface of the straight section on the opposite side, and the gap forms an air outlet connecting with the cavity, namely an air ventilation flow channel.

Publication: [CN 104653072 A 20150527](#)

Applicant: ZHEJIANG ROOMEYE ENERGY SAVING TECHNOLOGY CO LTD

Inventor: JIN PINGPING; LU RIQUAN; PAN LINJIE; ZHANG ZHUYI

Prio:

Appl.No: CN201410564721

IPC: E06B 7/10

CN 104653072 A 说明书附图 1/2页

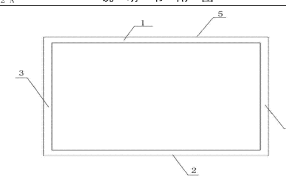


图 1

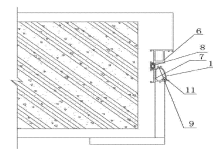


图 2

5

Drainage device of push-pull device

The invention discloses a drainage device of a push-pull device. The drainage device comprises a drainage box, wherein the drainage box comprises a first trough body and a drainage chamber body, the first trough body is communicated with a first end of the drainage chamber body, and the first end of the drainage chamber body is communicated with a second end of the drainage chamber body. The drainage device further comprises a water plugging block, wherein the water plugging block comprises a first connecting part, the first connecting part penetrates through a downwards-sliding first opening of the push-pull device and is fixedly arranged in the first trough body, and the drainage box is arranged in a downwards-sliding chamber body; the second end of the drainage chamber body extends out of a downwards-sliding second opening of the push-pull device. The drainage device further comprises a first one-way valve, wherein the first one-way valve is arranged on the first connecting part and is used for controlling opening and closing a communicated passageway between the first trough body and the drainage chamber body. The drainage device of the push-pull device, disclosed by the invention, has the advantage that the problems of the current push-pull devices that air tightness and water tightness are poor and rainwater backwards flows indoors can be solved.

Publication: [CN 104653073 A 20150527](#)

Applicant: GUANGDONG JIANMEI ALUMINUM PROFILE FACTORY GROUP CO LTD

Inventor: CHEN XIAONA; DENG XINJUN; HUANG JINGSHI; HUANG XIAOMEI; HUANG YONGZHI; HUO YAOLIANG; QIAN HUA; YU ZHILONG; ZHU YONGHAO

Prio:

Appl.No: CN201510083579

CN 104653073 A 说明书附图 1/2页

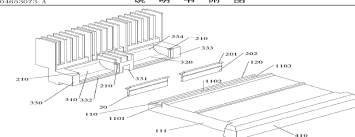


图 1

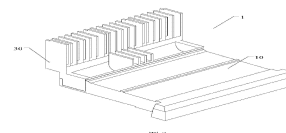


图 2

5

IPC: E06B 7/14

Push-pull door/window cleaning tank

The invention relates to the technical field of door/window manufacturing, in particular to a push-pull door/window cleaning tank. The push-pull door/window cleaning tank comprises a slide tank, wherein a dust collecting tank is formed in one end of the slide tank; and a support plate having the same size with the dust collecting tank is arranged in the dust collecting tank, and is fixedly connected with a handle. The push-pull door/window cleaning tank is simple in structure; one downwards recessed dust collecting tank is formed in any end of the slide tank in the prior art; when dust and impurities in the slide chute is required to be cleaned, a brush is only required to clean from one end of the slide tank to the other end; finally, the dust and the impurities drop into the dust collecting tank; as the dust collecting tank has the support plate as large as the dust collecting tank, the dust and the impurities can drop on the support plate; and finally, the support plate is taken out, so that the dust and the impurities can be removed, and the effects of speediness and convenience are achieved.

Publication: **CN 104653074 A 20150527**

Applicant: TIANJIN SHENGXU METAL DOORS AND WINDOWS CO LTD

Inventor: LI DONG

Prio:

Appl.No: CN201310580787

IPC: E06B 7/28

CN 104653074 A 说明书附图 1/3页

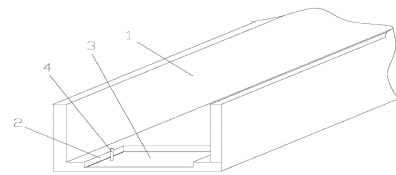


图 1

Train access door extrusion-proof U-shaped clamp

The invention discloses a train access door extrusion-proof U-shaped clamp. The train access door extrusion-proof U-shaped clamp comprises a first extrusion-proof rod, and the first extrusion rod is composed of a straight rod and a bent rod which form a J-shaped component; the free end of the bent rod is threadedly connected with the internal end of a second extrusion-proof rod; the second extrusion-proof rod and the first extrusion-proof rod are connected to form a U-shaped clamp body; the U-shaped clamp body is wrapped by a sheath, the wall thickness of the sheath is 4 mm, and both ends of the sheath are respectively provided with a port. According to the train access door extrusion-proof U-shaped clamp, the U-shaped body is composed of the extrusion-proof rods and provided with the external sheath with wearing resistance and high buffering effects, so that clamping injuries of passengers when an access door is closed accidentally. The train access door extrusion-proof U-shaped clamp can effectively absorb the impact force when the access door is closed accidentally and avoid damage of the access door. The train access door extrusion-proof U-shaped clamp can also be provided with a positioning clamp, which can be matched with an access door handle for positioning to avoid falling off from the access door. The train access door extrusion-proof U-shaped clamp can also be provided with bolts to further avoid falling off from the access door and can be conveniently taken off for closing the access door. The train access door extrusion-proof U-shaped clamp has the advantages of being simple in structure, low in manufacture cost and convenient to use.

Publication: **CN 104653075 A 20150527**

Applicant: TANG WEI

Inventor: TANG WEI

Prio:

Appl.No: CN201310602165

CN 104653075 A 说明书附图 1/3页

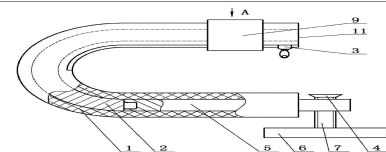


图 1

IPC: E06B 7/28

Public toilet door device

The invention relates to a public toilet door device. The public toilet door device comprises a body, journal boxes, a platform, a ring-shaped handle, lock catches, transverse baffles and magnetic blocks, wherein the journal boxes are arranged at the upper parts of two surfaces of the body; the platform is a semicircular platform surface and is arranged in the middle of the inner surface of the body; the ring-shaped handle is ring-shaped and arranged at the lower part of the inner surface of the body; two lock catches are arranged on the wall; two transverse baffles are respectively arranged at the upper part and the lower part of the body opposite to the positions of the lock catches; the magnetic blocks and the transverse baffles are arranged on the same horizontal plane. The public toilet door device is simple in structure, simple to be operated, low in cost and not liable to be damaged, can be used for helping females to make up by using limited private space and can also be used for helping the aged to stand.

Publication: **CN 104653076 A 20150527**

Applicant: ANHUI HONGGUANG NETWORK
ENGINEERING CO LTD

Inventor: ZHU JINGBAO

Prio:

Appl.No: CN201410814015

IPC: E06B 7/28

CN 104653076 A 说明书附图 1/1页

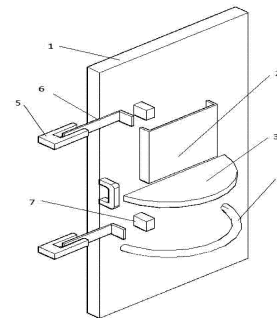


图 1

Automatic express home-entry device

The invention provides an automatic express home-entry device which is electromechanical integrated office equipment. A case body of the automatic express home-entry device is a rectangular hollow frame; the middle of the exterior of the case body is provided with a fixed reinforcement frame and the case body internally sleeves one pushing frame; the front end of the pushing frame is provided with an outer door; the left and right sides of the interior of the pushing frame are provided with pushing rails; the fixed ends of the pushing rails are arranged in a pushing rail rack; a shell of the pushing rail rack and the case body are welded into an integrated structure; the pushing frame is connected with a pushing telescopic motor; the upper part of the interior of the pushing frame is provided with a magnetic electric control lock; the upper part of the front end of the case body is provided with a swipe card reader and a state indication lamp; the rear end of the case body is provided with a rear door frame; the rear door frame is provided with a plug-in type inner door; the bottom of the inner door is provided with an anti-pinch soft rubber plate. By virtue of the automatic express home-entry device, a courier can safely deliver an express parcel into the house of a user without informing the user by call or knocking the door, and the trouble that the user can not take the express parcel because of not being home or other reasons is solved and the parcel delivery time of the courier is saved.

Publication: **CN 104653077 A 20150527**

Applicant: ANYANG HUANGCHAO ELECTRONIC
TECHNOLOGY CO LTD

Inventor: WANG CHAO; WANG QUN

Prio:

Appl.No: CN201410843661

CN 104653077 A 说明书附图 1/10页

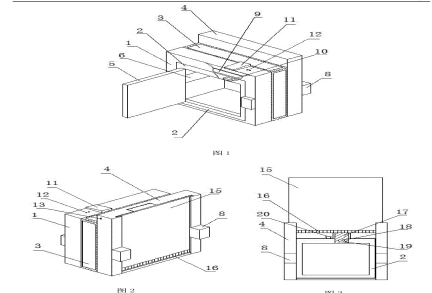


图 1

IPC: E06B 7/28

Peeping-prevention door mirror of antitheft door

The invention provides a new method of a peeping-prevention door mirror of an antitheft door. According to the mirror, the infrared detection technology and the optical switch characteristics of a liquid crystal box are utilized. The new solving thoughts are provided for the peeping-prevention technology of the door mirror. The peeping-prevention door mirror comprises an optical system, the liquid crystal box and a control circuit of the liquid crystal box, and an infrared detection and control circuit.

Publication: [CN 104653078 A 20150527](#)

Applicant: QINGDAO TANGPENG STEEL STRUCTURAL ENGINEERING CO LTD

Inventor: TANG ZIPENG

Prio:

Appl.No: CN201310586312

IPC: E06B 7/30

CN 104653078 A 说明书附图 1/1 页

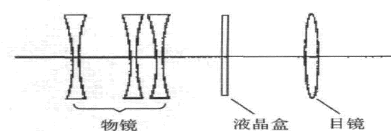


图 1

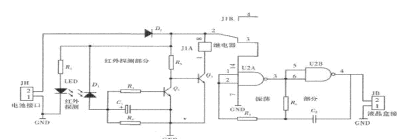


图 2

5

Fingerprint door with pet channel

The invention belongs to the technical field of mechanical and electrical products, and particularly provides a fingerprint door with a pet channel. A pet door frame and a pet door connected to the pet door frame are arranged in the middle bottom of the outer surface of the fingerprint door body, and an infrared induction door bell is mounted above the pet door frame. The fingerprint door with the pet channel solves the problems that an existing fingerprint door is single in function, no pet channel exists, and free activities of a pet are limited; and due to the fact that no pet channel exists, the activities of the pet must be followed by people, and normal life of people is affected. The fingerprint door with the pet channel saves equipment mounting space, and meets the requirement of the pet for the free activities; time for taking care of the pet by people is saved, and life quality of people and the pet is improved; and the requirements of the people and the pet are met.

Publication: [CN 104653079 A 20150527](#)

Applicant: SHAANXI TIAN HAO TECHNOLOGY CO LTD

Inventor: SHAO MINGXU

Prio:

Appl.No: CN201310582759

IPC: E06B 7/32

CN 104653079 A 说明书附图 1/1 页

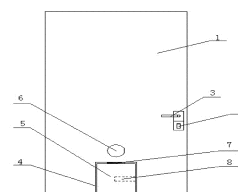


图 1

5

Manufacturing method of electronic antitheft door/window

The invention discloses a manufacturing method of an electronic antitheft door/window. Magnetic inductors are mounted at two sides of a window leaf; an electronic sensor and an alarming device are mounted at the lower end of a window frame; the magnetic inductors and the electronic sensor are related with a household telephone program; an alarming horn is related with a security program; and when a foreign person approaches or opens the window frame, the magnetic inductors and the electronic sensor synchronously give an alarm. The electronic antitheft door/window is provided with dual alarms, is strong in sensitivity and low in misinformation rate, eliminates the firefighting hidden danger caused by an iron protective guard, is convenient for engineering construction, and has better reliability and lower production cost.

Publication: [CN 104653080 A 20150527](#)

Applicant: HARBIN LONGDI BUILDING MATERIAL CO LTD

Inventor: LI JINGHUA

Prio:

Appl.No: CN201310588455

IPC: E06B 9/02

Built-in sunshading hollow glass product

The invention provides a built-in sunshading hollow glass product and belongs to the technical field of door windows. The built-in sunshading hollow glass product comprises two glass layers, a group of spacing strip frames, a blade component, handles and a group of blade transmission control devices, wherein the blade transmission control devices are used for converting the handle movement action and is used for controlling the overturn of blades in the blade component and the ascending and descending of the blades; the spacing strip frames are clamped between the two glass layers; spaces between the outer sides of the spacing strip frames and the two glass layers are covered by sealants; the blade component and the blade transmission control devices are positioned on the two glass layers and are respectively positioned at the inner sides of the spacing strip frames; the blade transmission control devices are positioned at the outer side of the blade component; the handles are positioned outside the two glass layers and correspond to the blade transmission control devices. The built-in sunshading hollow glass product has the advantages of beautiful appearance, convenience, flexibility and comfort of operation, and the like; by virtue of systematically solving various problems, the hollow glass product has the advantages of long overall service life, convenience of assembly, low production cost and the like.

Publication: [CN 104653081 A 20150527](#)

Applicant: MIAO WENXI

Inventor: MIAO WENXI

Prio:

Appl.No: CN201510005205

IPC: E06B 9/264

CN 104653081 A 说明书附图 1/14页

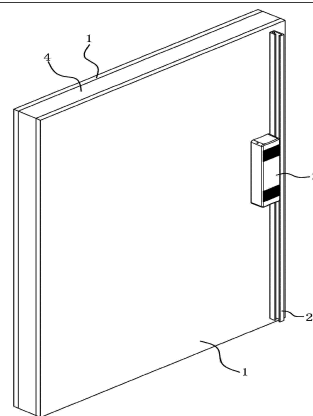


图1
10

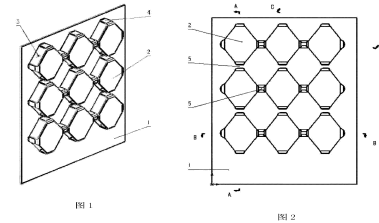
Ventilative mosquito screen

The invention provides a ventilative mosquito screen which can ensure the ventilating capacity and strength in any wind direction. The ventilative mosquito screen (1) is that a plurality of ventilating units protrude from a screen surface; each ventilating unit comprises a bugle (2), a mesh (3) and a fine supporting rib (4); each ventilating unit is of a structure that more than three supporting ribs (4) support the bugles (2) at intervals to enable the bulges (2) to be separated from the screen surface; the meshes (3) are wrapped with the supporting ribs (4); the supporting ribs (4) support the bulges (2) to form a point supporting structure.

Publication: [CN 104653082 A 20150527](#)

Applicant: GAO LI
Inventor: GAO LI
Prio: CN 20131119 201310585119
Appl.No: CN201310640051
IPC: E06B 9/52

CN 104653082 A 说明书附图 1/7页



Invisible screen window

The invention discloses an invisible screen window which comprises a gauze rolling box, a gauze screen and an opening linkage structure, wherein the opening linkage structure comprises a gauze screen connecting piece, a sliding rod, a cam and a bulge locating piece; the bulge locating piece comprises a necking part and a convex head; one end of the necking part is fixedly arranged on a side frame of the window, and the other end of the necking part is provided with the convex head; the sliding rod is provided with a locating clamping hole and a hole, the necking part of the bulge locating piece is clamped in the locating clamping hole, and the convex head passes through the hole; the hole is connected with the lower end of the locating clamping hole, the bore diameter from the hole to the locating clamping hole narrows down, the sliding rod is movably arranged on the gauze screen connecting piece which is fixedly arranged at the free end of the gauze screen; the other end of the gauze screen is fixedly arranged on a reel of the gauze rolling box; the cam is also rotatably arranged on the gauze screen connecting piece and props against the lower end of the sliding rod. The screen window and a window are locked and buckled or loosened by virtue of a cam locking mechanism, so that synchronous opening of the screen window and the window is realized and the operation is convenient.

Publication: [CN 104653083 A 20150527](#)

Applicant: UNIV NORTH CHINA
Inventor: TIAN BAOJUN; WEN QUANKAI; ZHAO HUA
Prio:
Appl.No: CN201510038092
IPC: E06B 9/54

CN 104653083 A 说明书附图 1/7页

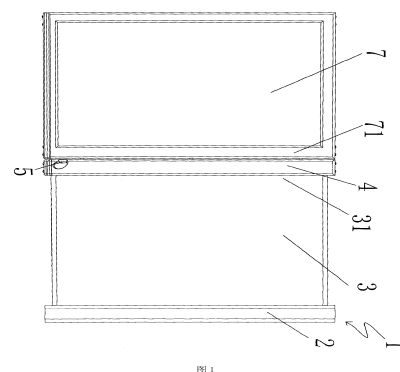


图 1

Theft identification control system of roller shutter door

A theft identification control system of a roller shutter door comprises an external structure (1), a monitoring module (2), an input system, a power supply connection device (4), a power supply socket (5), a switch (6) and a communication interface (7), wherein the monitoring module (2) and the input system (3) are respectively connected with the power supply connection device (4) via a lead. The theft identification control system of the roller shutter door is advantageous in that when equipment fails to work, a prompt can be automatically given out and a power down protection function can be achieved; data can be automatically stored upon power down during detection; the system can work again after connection; and the theft identification control system of the roller shutter door has small size and light weight.

Publication: [CN 104653084 A 20150527](#)

Applicant: WANG LIANYI
Inventor: WANG LIANYI
Prio:
Appl.No: CN201310570763
IPC: E06B 9/56

CN 104653084 A 说明书附图 1/3 页

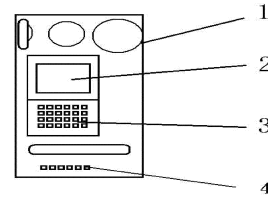


图 1

5

Roll insect screen press lock device arranged inside window frame

The invention provides a roll insect screen press lock device arranged inside a window frame. A roll insect screen includes a housing that accommodates a winding member, a net body that is built into the housing to be capable of elastically protruding, a handle bar that is fastened to one side end portion of the net body, a guide rail that guides the net body and the handle bar, and a stopper that is attached to a lower inner side of the guide rail, and the roll insect screen is inserted into and fixed to an inner accommodating space portion of the window frame. The roll insect screen press lock device arranged inside the window frame is characterized in that a housing fixing member and a pressing fastening member are clamped to the butting portion between the window frame and the roll insect screen in a single contact manner, the housing fixing member fixes the housing, and the pressing fastening member is used for elastically pressing and locking the roll insect screen.

Publication: [CN 104653085 A 20150527](#)

Applicant: DAE SANG WINDOW SYSTEM CO LTD
Inventor: BAK U DAE
Prio: KR 20131119 20130140937
Appl.No: CN201410083717
IPC: E06B 9/56

CN 104653085 A 说明书附图 1/12 页

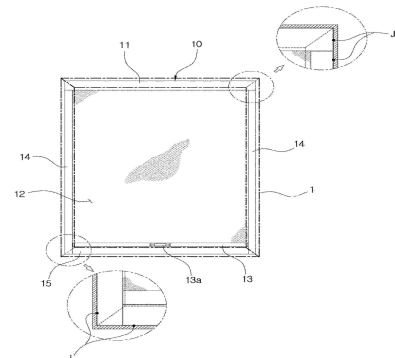


图 1

9

Infrared remote control system for electric rolling gate

The invention discloses an infrared remote control system for an electric rolling gate. The system comprises an infrared receiver and an infrared remote controller; an upper limiting switch is mounted on the top part of a frame of the electric rolling gate, and while a lower limiting switch is mounted at the bottom part of the frame of the electric rolling gate; the infrared remote controller comprises a first single-chip microcomputer, a first power supply circuit, a first crystal oscillating circuit, a first returning circuit, a rolling gate raising key, a rolling gate lowering key, a rolling gate stop key and an infrared emitter; the infrared receiver comprises a second single-chip microcomputer, a second power supply battery, a second crystal oscillating circuit, a second returning circuit, an SD card data storing circuit, an infrared receiver body, a clock circuit, a DC motor driver and an audible and visual alarm; both the upper limit switch and the lower limit switch are connected with the input end of the second single-chip microcomputer. The system is simple in structure, reasonable in design, convenient to achieve, low in cost, convenient to use and operate, high in intelligence degree, high in electric rolling gate safety, high in practicability, good in use effect, and convenient to popularize and use.

Publication: [CN 104653086 A 20150527](#)

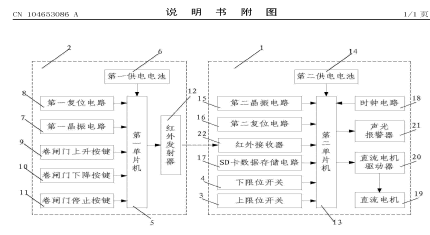
Applicant: SHAANXI YATAI ELECTRIC APPLIANCE CO LTD

Inventor: TANG WEIJUN

Prio:

Appl.No: CN201310607877

IPC: E06B 9/68



6

Dual-purpose ladder

The invention discloses a dual-purpose ladder, relating to the field of daily life. The dual-purpose ladder comprises a long ladder and a short ladder which are hinged through a hinge shaft. The dual-purpose ladder can be used for achieving the purpose that one ladder not only can be used as the inverted V-shaped ladder, but also can be used as a straight ladder.

Publication: [CN 104653087 A 20150527](#)

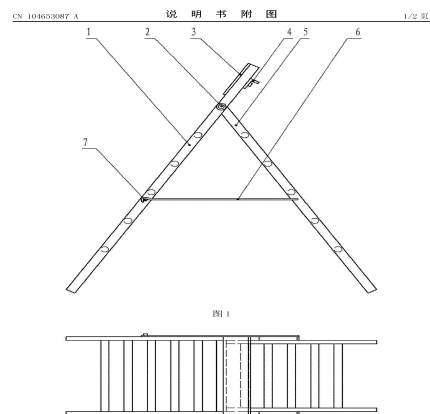
Applicant: LUO JIHONG

Inventor: LUO JIHONG

Prio:

Appl.No: CN201410288470

IPC: E06C 1/08



6

Armrest-carrying insulating ladder

The invention provides an armrest-carrying insulating ladder which comprises four support bars and a pedal installed on the top of the support bars. Two 1-meter guardrails are arranged on the pedal. According to the armrest-carrying insulating ladder, intrinsic height of an insulating ladder is increased, and a certain safety guarantee is provided for electric power operators.

Publication: [CN 104653088 A 20150527](#)

Applicant: XI AN HIGH TECH IND DEV ZONE WEST INFORMATION HARBOR CO LTD

Inventor: YANG XING

Prio:

Appl.No: CN201310570596

IPC: E06C 1/18

CN 104653088 A 说明书附图 1/1页

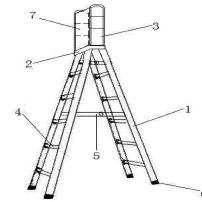


图 1

5

Upright inserted high-voltage line maintaining ladder

The invention discloses an upright inserted high-voltage line maintaining ladder. A stabilizing seat of the upright inserted high-voltage line maintaining ladder is fixed through being matched with an outer conical surface located at the lower end of an upright column body through a middle inner conical hole, and the outer conical surface of the upright column body is fixed through being matched with the inner conical surface of the inner conical hole of the upright column body; the inner conical surface and the outer conical surface which are fitted are automatically locked through the matching of a locking slot in the inner conical surface and a brake pin after the inner conical hole is fixed through being matched with the outer conical surface; and the surface of the upright column body is fixedly provided with steps on which antiskid rubber is adhered, and antiskid rubber is also adhered to the bottom of the stabilizing seat. The upright inserted high-voltage line maintaining ladder is simple in structure and very convenient to assemble and use, and no tools are needed in the assembling and disassembling processes when the ladder is used; after the upright inserted high-voltage line maintaining ladder is adopted, the problems on the aspects of uprightly climbing and standing of high-voltage line maintaining personnel are solved, and the high-voltage line maintaining ladder is rapid, convenient, safe and reliable to assemble and convenient to climb when being used for climbing; and after being used, the upright inserted high-voltage line maintaining ladder is convenient to disassemble, package and transport, so that the production and use costs are reduced.

Publication: [CN 104653089 A 20150527](#)

Applicant: XU YONG

Inventor: XU ZIYUN

Prio:

Appl.No: CN201510045555

IPC: E06C 1/28

CN 104653089 A 说明书附图 1/2页

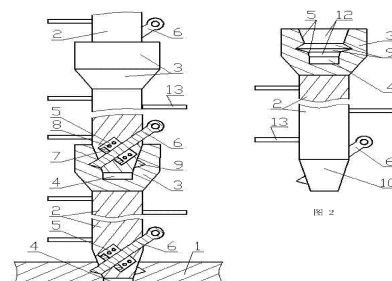


图 2

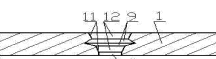


图 3

10

Tandem type upright ladder for maintaining high-voltage lines

The invention discloses a tandem type upright ladder for maintaining high-voltage lines. The ladder is characterized in that a chassis of the ladder is fixed by being matched with an outer conical surface at the lower end of a ladder post body via a middle inner cone hole; the outer conical surface of the ladder post body is fixed by being matched with an inner conical surface of the inner cone hole of the ladder post body; after the inner cone hole is fixed by being matched with the outer conical surface, the inner conical surface and the outer conical surface, which are jointed, are automatically locked by matching a locked groove in the outer conical surface with a shotpin; pedals are fixed on the surface of a post body of the ladder post body; anti-slip glue adheres to the pedals and the bottom of the chassis. The tandem type upright ladder for maintaining high-voltage lines has the beneficial effects that the ladder has a simple structure and is quite convenient to manufacture, assemble and use; tools are not needed in the assembling and dismantling processes during use of the ladder; after the tandem type upright ladder for maintaining high-voltage lines is adopted, the problem that high-voltage line maintenance men climb and stand uprightly is solved; the ladder for maintaining high-voltage lines is fast, convenient, safe and reliable to assemble during climbing and is convenient to climb; after being used, the ladder is convenient to dismantle, package and transport, thus reducing the production cost and the use cost.

Publication: [CN 104653090 A 20150527](#)

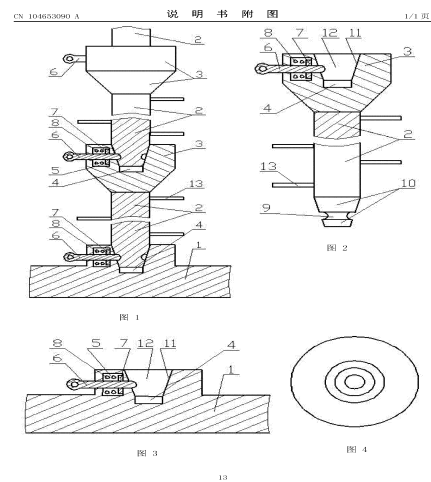
Applicant: XU GANG

Inventor: XU GANG

Prio:

Appl.No: CN201510027344

IPC: E06C 1/30



Tandem type upright ladder for maintaining high-voltage lines

The invention discloses a tandem type upright ladder for maintaining high-voltage lines. The ladder is characterized in that a chassis of the ladder is fixed by being matched with an outer conical surface at the lower end of a ladder post body via a middle inner cone hole; the outer conical surface of the ladder post body is fixed by being matched with an inner conical surface of the inner cone hole of the ladder post body; after the inner cone hole is fixed by being matched with the outer conical surface, the inner conical surface and the outer conical surface, which are jointed, are automatically locked by matching a brake groove in a lock rod with a shotpin; pedals are fixed on the surface of a post body of the ladder post body; anti-slip glue adheres to the pedals and the bottom of the chassis. The tandem type upright ladder for maintaining high-voltage lines has the beneficial effects that the ladder has a simple structure and is quite convenient to manufacture, assemble and use; tools are not needed in the assembling and dismantling processes during use of the ladder; after the tandem type upright ladder for maintaining high-voltage lines is adopted, the problem that high-voltage line maintenance men climb and stand uprightly is solved; the ladder for maintaining high-voltage lines is fast, convenient, safe and reliable to assemble during climbing and is convenient to climb; after being used, the ladder is convenient to dismantle, package and transport, thus reducing the production cost and the use cost.

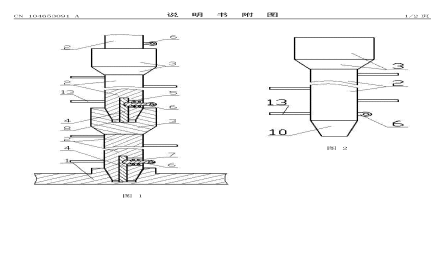
Publication: [CN 104653091 A 20150527](#)

Applicant: XU GANG

Inventor: XU GANG

Prio:

Appl.No: CN201510027355



Insert type upright ladder for maintaining high-voltage lines

The invention discloses an insert type upright ladder for maintaining high-voltage lines. The ladder is characterized in that a chassis of the ladder is fixed by being matched with an outer conical surface at the lower end of a ladder post body via a middle inner cone hole; the outer conical surface of the ladder post body is fixed by being matched with an inner conical surface of the inner cone hole of the ladder post body; after the inner cone hole is fixed by being matched with the outer conical surface, the inner conical surface and the outer conical surface, which are jointed, are automatically locked by matching a locked groove in the inner conical surface with a shotpin; pedals are fixed on the surface of a post body of the ladder post body; anti-slip glue adheres to the pedals and the bottom of the chassis. The insert type upright ladder for maintaining high-voltage lines has the beneficial effects that the ladder has a simple structure and is quite convenient to assemble and use; tools are not needed in the assembling and dismantling processes during use of the ladder; after the insert type upright ladder for maintaining high-voltage lines is adopted, the problem that high-voltage line maintenance men climb and stand uprightly is solved; the ladder for maintaining high-voltage lines is fast, convenient, safe and reliable to assemble during climbing and is convenient to climb; after being used, the ladder is convenient to dismantle, package and transport, thus reducing the production cost and the use cost.

Publication: [CN 104653092 A 20150527](#)

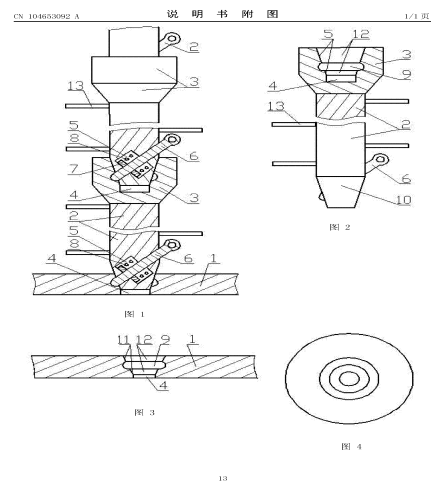
Applicant: XU GANG

Inventor: XU GANG

Prio:

Appl.No: CN201510027380

IPC: E06C 1/30



Upright serially-connected high-voltage line maintaining ladder

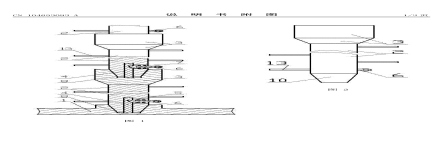
The invention discloses an upright serially-connected high-voltage line maintaining ladder. A supporting seat of the upright serially-connected high-voltage line maintaining ladder is fixed through being matched with an outer conical surface located at the lower end of a supporting column body through a middle inner conical hole, and the outer conical surface of the supporting column body is fixed through being matched with the inner conical surface of the inner conical hole of the supporting column body; the inner conical surface and the outer conical surface which are fitted are automatically locked through the matching of a braking slot in a brake rod and a locking pin after the inner conical hole is fixed through being matched with the outer conical surface; and the surface of the supporting column body is fixedly provided with steps on which antiskid rubber is adhered, and antiskid rubber is also adhered to the bottom of the supporting seat. The upright serially-connected high-voltage line maintaining ladder is simple in structure and very convenient to manufacture, assemble and use, and no tools are needed in the assembling and disassembling processes when the ladder is used; after the upright serially-connected high-voltage line maintaining ladder is adopted, the problems on the aspects of uprightly climbing and standing of high-voltage line maintaining personnel are solved, and the high-voltage line maintaining ladder is rapid, convenient, safe and reliable to assemble and convenient to climb when being used for climbing; and after being used, the upright serially-connected high-voltage line maintaining ladder is conveniently disassembled, packaged and transported, so that the production and use costs are reduced.

Publication: [CN 104653093 A 20150527](#)

Applicant: YU DENGHUI

Inventor: QIU XINGLUN; YU DENGHUI

Prio:



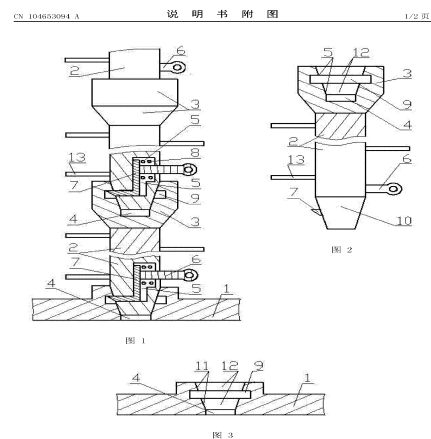
Appl.No: CN201510033433
IPC: E06C 1/30

Upright high-voltage line maintaining ladder

The invention discloses an upright high-voltage line maintaining ladder. A supporting seat of the upright high-voltage line maintaining ladder is fixed through being matched with an outer conical surface located at the lower end of a supporting column body through a middle inner conical hole, and the outer conical surface of the supporting column body is fixed through being matched with the inner conical surface of the inner conical hole of the supporting column body; the inner conical surface and the outer conical surface which are fitted are automatically locked through the matching of a locking slot in the inner conical surface and the locking end of a right-angled body after the inner conical hole is fixed through being matched with the outer conical surface; and the surface of the supporting column body is fixedly provided with steps on which antiskid rubber is adhered, and antiskid rubber is also adhered to the bottom of the supporting seat. The upright high-voltage line maintaining ladder is simple in structure and very convenient to assemble and use, and no tools are needed in the assembling and disassembling processes when the ladder is used; after the upright serially-connected high-voltage line maintaining ladder is adopted, the problems on the aspects of uprightly climbing and standing of high-voltage line maintaining personnel are solved, and the high-voltage line maintaining ladder is rapid, convenient, safe and reliable to assemble and convenient to climb when being used for climbing; and after being used, the upright high-voltage line maintaining ladder is conveniently disassembled, packaged and transported, so that the production and use costs are reduced.

Publication: [CN 104653094 A 20150527](#)

Applicant: YU DENGHUI
Inventor: QIU XINGLUN; YU DENGHUI
Prio:
Appl.No: CN201510033439
IPC: E06C 1/30



Upright serially-connected high-voltage line maintaining ladder

The invention discloses an upright serially-connected high-voltage line maintaining ladder. A supporting seat of the upright serially-connected high-voltage line maintaining ladder is fixed through being matched with an outer conical surface located at the lower end of a supporting column body through a middle inner conical hole, and the outer conical surface of the supporting column body is fixed through being matched with the inner conical surface of the inner conical hole of the supporting column body; the inner conical surface and the outer conical surface which are fitted are automatically locked through the matching of a locking slot in the outer conical surface and a locking pin after the inner conical hole is fixed through being matched with the outer conical surface; and the surface of the supporting column body is fixedly provided with steps on which antiskid rubber is adhered, and antiskid rubber is also adhered to the bottom of the supporting seat. The upright serially-connected high-voltage line maintaining ladder is simple in structure and very convenient to manufacture, assemble and use, and no tools are needed in the assembling and disassembling processes when the ladder is used; after the upright serially-connected high-voltage line maintaining ladder is adopted, the problems on the aspects of uprightly climbing and standing of high-voltage line maintaining personnel are solved, and the high-voltage line maintaining ladder is rapid, convenient, safe and reliable to assemble and convenient to climb when being used for climbing; and after being used, the upright serially-connected high-voltage line maintaining ladder is conveniently disassembled, packaged and transported, so that the production and use costs are reduced.

Publication: [CN 104653095 A 20150527](#)



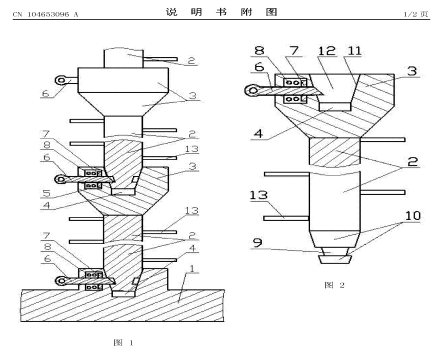
Applicant: YU DENGHUI
Inventor: QIU XINGLUN; YU DENGHUI
Prio:
Appl.No: CN201510033440
IPC: E06C 1/30

Upright serially-connected high-voltage line maintaining ladder

The invention discloses an upright serially-connected high-voltage line maintaining ladder. A stabilizing seat of the upright serially-connected high-voltage line maintaining ladder is fixed through being matched with an outer conical surface located at the lower end of an upright column body through a middle inner conical hole, and the outer conical surface of the upright column body is fixed through being matched with the inner conical surface of the inner conical hole of the upright column body; the inner conical surface and the outer conical surface which are fitted are automatically locked through the matching of a locking slot in the outer conical surface and a brake pin after the inner conical hole is fixed through being matched with the outer conical surface; and the surface of the upright column body is fixedly provided with steps on which antiskid rubber is adhered, and antiskid rubber is also adhered to the bottom of the stabilizing seat. The upright serially-connected high-voltage line maintaining ladder is simple in structure and very convenient to manufacture, assemble and use, and no tools are needed in the assembling and disassembling processes when the ladder is used; after the upright serially-connected high-voltage line maintaining ladder is adopted, the problems on the aspects of uprightly climbing and standing of high-voltage line maintaining personnel are solved, and the high-voltage line maintaining ladder is rapid, convenient, safe and reliable to assemble and convenient to climb when being used for climbing; and after being used, the upright serially-connected high-voltage line maintaining ladder is convenient to disassemble, package and transport, so that the production and use costs are reduced.

Publication: [CN 104653096 A 20150527](#)

Applicant: XU YONG
Inventor: XU ZIYUN
Prio:
Appl.No: CN201510044983
IPC: E06C 1/30



Upright serially-connected high-voltage line maintaining ladder

The invention discloses an upright serially-connected high-voltage line maintaining ladder. A stabilizing seat of the upright serially-connected high-voltage line maintaining ladder is fixed through being matched with an outer conical surface located at the lower end of an upright column body through a middle inner conical hole, and the outer conical surface of the upright column body is fixed through being matched with the inner conical surface of the inner conical hole of the upright column body; the inner conical surface and the outer conical surface which are fitted are automatically locked through the matching of a braking slot in a locking rod and a brake pin after the inner conical hole is fixed through being matched with the outer conical surface; and the surface of the upright column body is fixedly provided with steps on which antiskid rubber is adhered, and antiskid rubber is also adhered to the bottom of the stabilizing seat. The upright serially-connected high-voltage line maintaining ladder is simple in structure and very convenient to manufacture, assemble and use, and no tools are needed in the assembling and disassembling processes when the ladder is used; after the upright serially-connected high-voltage line maintaining ladder is adopted, the problems on the aspects of uprightly climbing and standing of high-voltage line maintaining personnel are solved, and the high-voltage line maintaining ladder is rapid, convenient, safe and reliable to assemble and convenient to climb when being used for climbing; and after being used, the upright serially-connected high-voltage line maintaining ladder is convenient to disassemble, package and transport, so that the production and use costs are reduced.

Publication: [CN 104653097 A 20150527](#)

Applicant: XU YONG
Inventor: XU ZIYUN
Prio:
Appl.No: CN201510045445
IPC: E06C 1/30

CN 104653097 A 说明书附图 1/3页

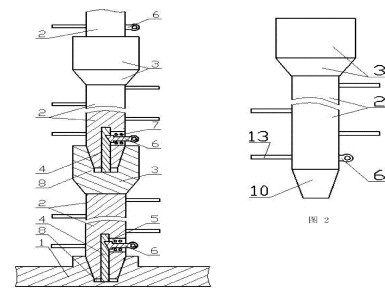


图 1

图 2

15

Ladder convenient to carry

The invention provides a ladder convenient to carry. The ladder comprises supporting legs and antiskid rubber pads arranged at the bottoms of the supporting legs, wherein the supporting legs are provided with rollers. The ladder convenient to carry overcomes the problem that conventional ladders are inconvenient to carry, and has the advantages of convenient carrying, saving of labor and time and capacity of improving work efficiency of people.

Publication: [CN 104653098 A 20150527](#)

Applicant: XI AN YUANBAICHANG TRADING CO LTD
Inventor: SHEN MENG
Prio:
Appl.No: CN201310577598
IPC: E06C 1/397

CN 104653098 A 说明书附图 1/3页

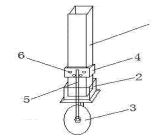


图 1

5

Method of making vacuum insulated glass (vig) window unit including activating getter

Methods of making vacuum insulated glass (VIG) window units are provided, including activating getters in a process of making VIG window units. In certain example embodiments, at least one getter is activated during and/or at the end of a pump-out/evacuation process in which the cavity between the substrates is evacuated. In certain example embodiments, the getter(s) may be activated (e.g., by at least a laser beam that is directed through a pump-out tube) during and/or at the end of the evacuation process in which the cavity between the substrates is evacuated to a low pressure that is below atmospheric pressure.

Publication: [CN 104662247 A 20150527](#)

Applicant: GUARDIAN INDUSTRIES
Inventor: HOGAN JOHN P; PANTKE ANDREW W; PETRMICHL RUDOLPH H
Prio: US 20120731 201213562408, US 20130719 2013051182
Appl.No: CN201380050504
IPC: E06B 3/66

说明书附图 1/3页

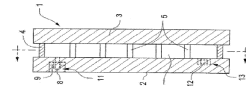


图1(现有技术)

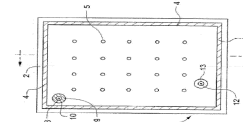


图2(现有技术)

Window structure body

An objective of the present invention is to implement a window structure body whereby a scene viewed from within a room space is ensured by day, and it is possible to prevent peeping from outside the room space either day or night. Provided is a window structure body, which is provided with a translucent planar light emitting body with a half-mirror layer on the inner side, and glass plate bodies on the inner side and the outer side of the planar light emitting body. The planar light emitting body is formed from a translucent resin plate, a light emitting element which is disposed upon the end face of the resin plate, and a light diffusion layer which is disposed upon the surface of the translucent light plate, and light from the light emitting element enters via the end face of the resin plate, is reflected by the half-mirror layer, and is diffused with the light diffusion layer, thereby causing the surface of the planar light emitting body to emit light.

Publication: [CN 104662248 A 20150527](#)

Applicant: MIRAI KIKAKU CO LTD
Inventor: ARIGA SHUNJI; NOHARA TSUYOSHI
Prio: JP 20120903 2012192821, JP 20130226 2013036330, JP 20130830 2013073262
Appl.No: CN201380045673
IPC: E06B 9/24

说明书附图 1/3页

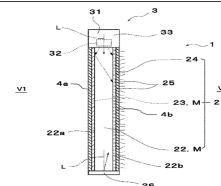


图1

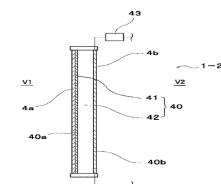


图2

Electromechanical actuator for driving a home automation screen

The invention relates to an electromechanical actuator for driving a home automation screen, comprising a motor, a reduction gear, and a brake which includes an input member (110), an output member (120), and a spring (130) provided with two folded tabs (132a, 132b). The spring-operated brake (105) includes a friction element (118) between the input member (110) and the output member (120). Said friction element (118) is rotatably secured to a first member (110), among the input member and the output member. The second member (120), among the input member and the output member, rubs against the friction element in the event of a relative rotation movement between the input member and the output member, about a central axis (X100) of the actuator.

Publication: [CN 104662249 A 20150527](#)

Applicant: SOMFY SAS
Inventor: DEBORNES YANNICK; LAGARDE ERIC
Prio: EP 20130904 2013068230, FR 20120905 1258301
Appl.No: CN201380049827
IPC: E06B 9/84

CN 104662249 A 说明书附图 1/6页

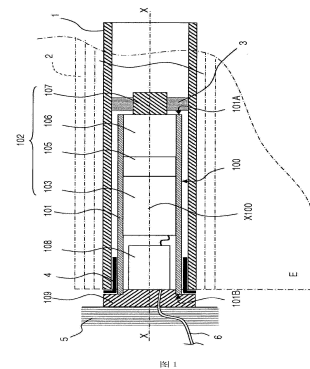


图 1

10

Vertical blind with integrated curtain

Publication: [CN 102439255 B 20150527](#)

Applicant: SON YOUNG-TAE
Inventor: SON YOUNG-TAE
Prio: KR 20100608 20100053765, KR 20101118 2010008156
Appl.No: CN201080021360
IPC: E06B 9/24

CN 102439255 B 说明书附图 1/7页

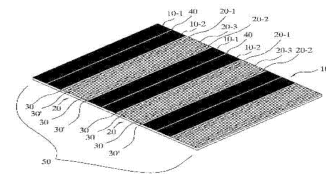


图 1

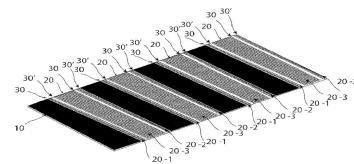


图 2

14

Composite energy-saving door window frame or door window sash frame and forming method

Publication: [CN 102518357 B 20150527](#)

Applicant: OUCHUANG PLASTIC BUILDING MAT
Inventor: HU QINGHUA; NIE LEI

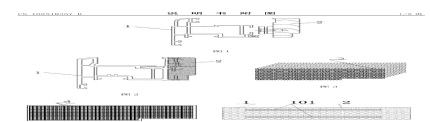


图 1

14

Prio: CN 20101225 201010604876, CN 20101225
201010604877
Appl.No: CN201110423767
IPC: E06B 1/32

Rotary driving device for shutters

Publication: **CN 102536074 B 20150520**
Applicant: SHENZHEN QINTAI VONTONE INTELLIGENT
TECHNOLOGY CO LTD
Inventor: SONG XINPING
Prio:
Appl.No: CN201210047908
IPC: E06B 7/086

CN 102536074 B 说明书附图 1/1页

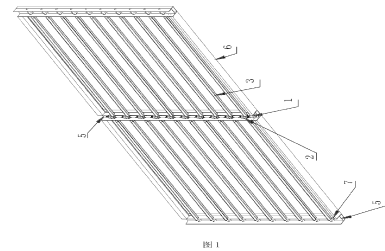


图 1

5

Door frame cover board and processing method thereof

Publication: **CN 102587789 B 20150527**
Applicant: LI FEI
Inventor: LI FEI
Prio:
Appl.No: CN201210086925
IPC: E06B 1/08

CN 102587789 B 说明书附图 1/1页

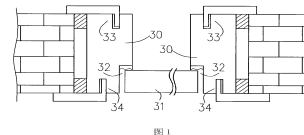


图 1

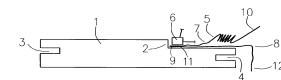


图 2

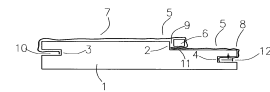
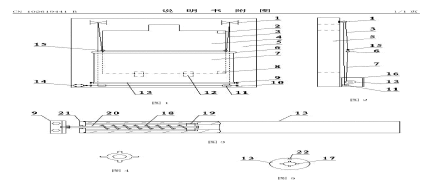


图 3

5

Fully-automatic logistics dustproof door

Publication: **CN 102619441 B 20150527**
Applicant: TIANJIN BOXIN AUTO PARTS CO
Inventor: LIANG XUEJIAO; NIU HAICHAO; ZHANG
CHUNXIAO; ZHOU QINGJIA
Prio:



5

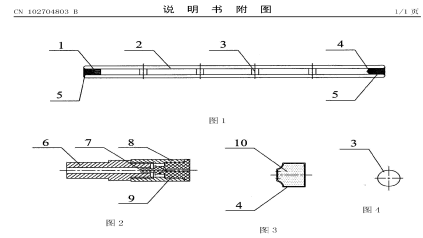
Appl.No: CN201210095066
IPC: E06B 3/52

Vacuum hollow glass

Publication: **CN 102704803 B 20150513**

Applicant: SHENYANG YUANDA AL IND ENG CO
Inventor: JIANG CHUNGUO; KANG BAOHUA; LI JUN; LI PENG; ZHANG LEI

Prio:
Appl.No: CN201210159680
IPC: E06B 3/67

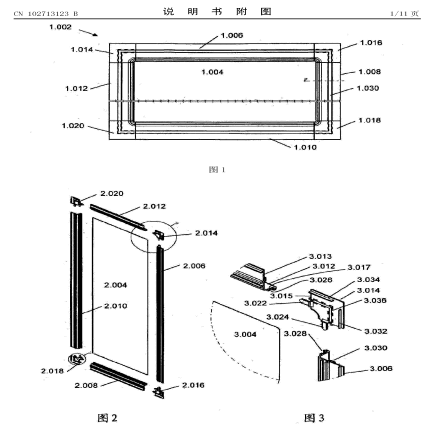


Insulated door and method of assembling insulated door

Publication: **CN 102713123 B 20150506**

Applicant: ELECTROLUX HOME PRODUCTS PTY LTD
Inventor: ROBERTS MARK
Prio: AU 20091120 2009905701, AU 20101119 2010001559

Appl.No: CN201080058278
IPC: E06B 3/263

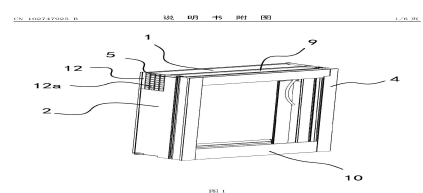


Window frame

Publication: **CN 102747925 B 20150527**

Applicant: NINGBO XIANFENG NEW MAT CO LTD
Inventor: LU XIANFENG; SANG JIANHUA

Prio:
Appl.No: CN201210244303



IPC: E06B 1/36

System for combining exterior lighting and artificial lighting

Publication: [CN 102770617 B 20150520](#)

Applicant: KONINKL PHILIPS ELECTRONICS NV
Inventor: VAN DER LANS DORIEN CATO; VAN DER POEL LUCAS LEO DESIREE

Prio: EP 20100302 10155113, IB 20110225 2011050811

Appl.No: CN201180011759

IPC: E06B 9/26

CN 102770617 B 说明书附图 1/8页

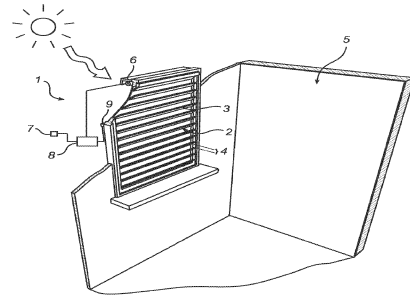


图 1

8

System for stabilizing the top lamella against wind load by using a linear chain

Publication: [CN 102791951 B 20150506](#)

Applicant: ASSA ABLOY ENTRANCE SYSTEMS AB
Inventor: FREDE FRIEDHELM; SIEWERT HOLGER; STEFFEN MEINOLF

Prio: US 20100922 2010049817, US 20090925 56735109

Appl.No: CN201080047772

IPC: E06B 9/171

CN 102791951 B 说明书附图 1/5页

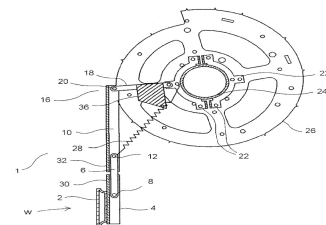


图 1

8

Structural element with a fan-like openable material layer

Publication: [CN 102812199 B 20150513](#)

Applicant: KNAUER DIETER

Inventor: KNAUER DIETER

Prio: DE 20100113 102010005066, DE 20101210 2010001446

Appl.No: CN201080063377

CN 102812199 B 说明书附图 1/4页

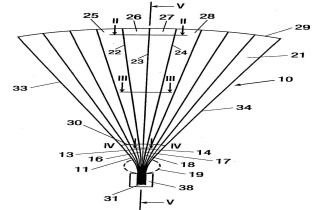


图 1

8

IPC: E06B 9/262

Movable burglary-resisting window

Publication: [CN 102817539 B 20150520](#)

Applicant: HUNAN JINWEI SECTION MATERIAL

Inventor: XIE BINQUAN; XU YOUPEI

Prio:

Appl.No: CN201210311861

IPC: E06B 5/01

CN 102817539 B 说明书附图 1/3页

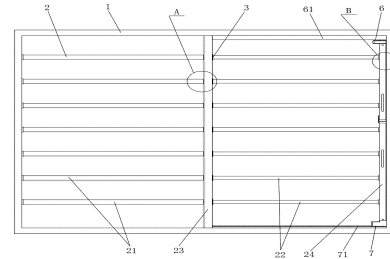


图 1

7

Transparent-aerogel vacuum glass and manufacturing method thereof

Publication: [CN 102839893 B 20150513](#)

Applicant: QINGDAO CREEK NEW ENVIRONMENTAL MATERIALS CO LTD

Inventor: LI ZHUANGXIAN; ZHAI CHUANWEI

Prio:

Appl.No: CN201210308477

IPC: E06B 3/67

CN 102839893 B 说明书附图 1/1页

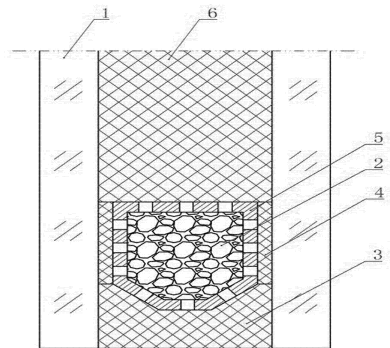


图 1

5

Movable hard rescue capsule emergency door

Publication: [CN 102865021 B 20150513](#)

Applicant: UNIV HENAN POLYTECHNIC

Inventor: JIAO FENG; LI YANFENG; LYU KUN; YUAN YANG; ZHANG HAI; ZHAO BO

Prio:

Appl.No: CN201210333223

CN 102865021 B 说明书附图 1/1页

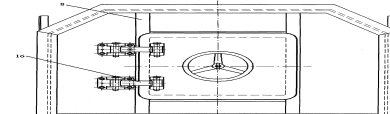


图 1

6

IPC: E06B 5/14

All-weather outdoor window shutter and slat driving method thereof

Publication: [CN 102877770 B 20150513](#)

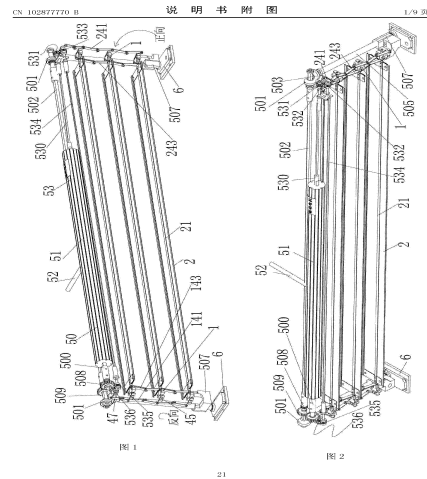
Applicant: BEIJING GAOBASI MACHINERY MFG CO LTD;
NAT RESIDENTIAL HUMAN HABITAT
ENGINEERING CONSULTANTS CO LTD

Inventor: JIN YUELI; ZHONG JISHOU

Prio:

Appl.No: CN201210371396

IPC: E06B 9/28



Cord winder for a window-covering device

Publication: [CN 102884272 B 20150513](#)

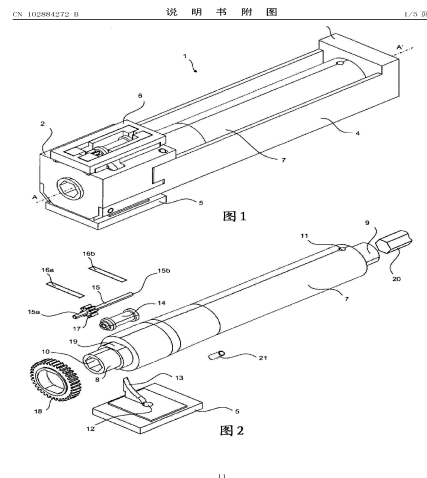
Applicant: SOMFY SAS

Inventor: DUPIELET NORBERT; LAGARDE ERIC

Prio: EP 20110322 2011054336, FR 20100323
1052075

Appl.No: CN201180022064

IPC: E06B 9/322



Wood-foam sheet-wood composite inward opening heat insulating window

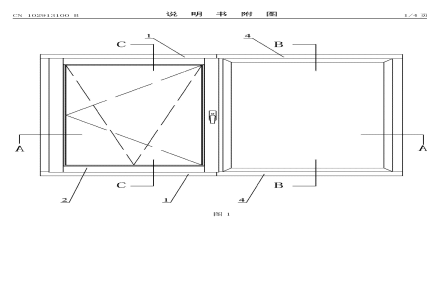
Publication: [CN 102913100 B 20150520](#)

Applicant: HARBIN SAYYAS WINDOWS CO LTD

Inventor: BIAN SHUPING; SUN CHUNHAI; WANG YONG

Prio:

Appl.No: CN201210460062



IPC: E06B 3/26

Wood-extruded sheet-wood composite inward opening heat insulating window

Publication: [CN 102913101 B 20150520](#)

Applicant: HARBIN SAYYAS WINDOWS CO LTD
Inventor: BIAN SHUPING; SUN CHUNHAI; WANG YONG
Prio:
Appl.No: CN201210460064
IPC: E06B 3/26

CN 102913101 B 说明书附图 1/4页

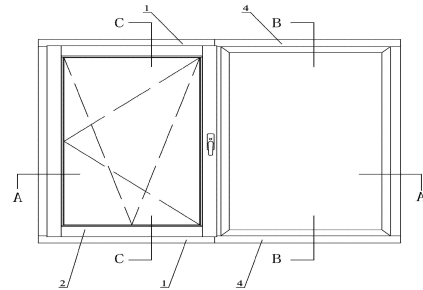


图 1

6

Three-glass aluminum-clad wood detachable shutter

Publication: [CN 102943611 B 20150513](#)

Applicant: PARKROCK HANGZHOU BUILDING MATERIALS CO LTD
Inventor: JIANG PINGPING; JING XIAOMING
Prio:
Appl.No: CN201210474795
IPC: E06B 9/264

CN 102943611 B 说明书附图 1/1页

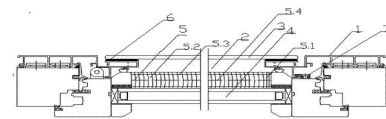


图 1

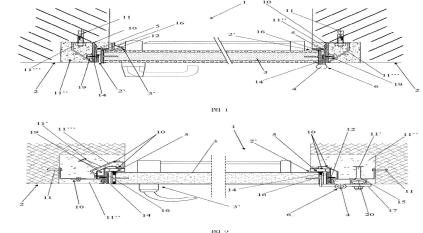
5

Prehung door unit structure

Publication: [CN 102947529 B 20150527](#)

Applicant: BAUMERT TECHNOLOGIES
Inventor: BAUMERT BERNARD
Prio: FR 20100610 2010051155, FR 20100608 1054476
Appl.No: CN201080067639

CN 102947529 B 说明书附图 1/4页



5

IPC: E06B 1/02

Embedded electric retractable door

Publication: [CN 102966299 B 20150506](#)

Applicant: NANJING JIUZHU TECHNOLOGY INDUSTRY CO LTD

Inventor: ZHAO JIANHUA

Prio:

Appl.No: CN201210559945

IPC: E06B 11/02

CN 102966299 B 说明书附图 1/10页

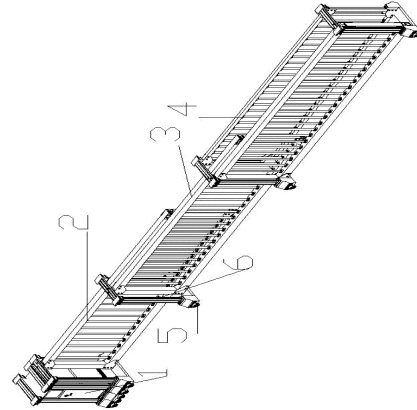


图 1
7

Dual roll blind

Publication: [CN 102985633 B 20150527](#)

Applicant: WINTEC KOREA INC

Inventor: JANG SEONG-RYONG

Prio: KR 20100720 20100070008, KR 20110614 2011004352

Appl.No: CN201180032898

IPC: E06B 9/40

CN 102985633 B 说明书附图 1/10页

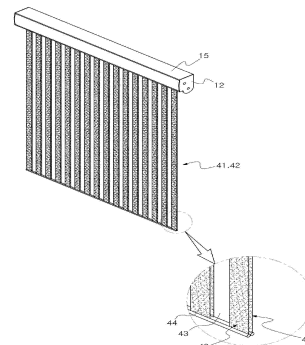


图 1

12

Flexible insulated door panels with internal baffles

Publication: [CN 103025990 B 20150520](#)

Applicant: RITE HITE HOLDING CORP

Inventor: MANICH GLENN R; UNGS MARK

Prio: US 20110705 2011042947, US 20100726 84353810

Appl.No: CN201180036502

CN 103025990 B 说明书附图 1/10页

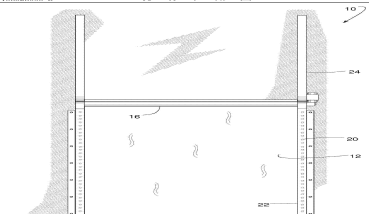


图 1

12

IPC: E06B 9/13

External adjusting and internal sliding type aluminum alloy group frame structure free of corner combing machine assembling

Publication: **CN 103046844 B 20150520**

Applicant: SHENZHEN GUANGTIAN HIGH TECH NEW MATERIALS CO LTD

Inventor: PENG KEQIAN; WANG JIAN

Prio:

Appl.No: CN201210556616

IPC: E06B 3/96

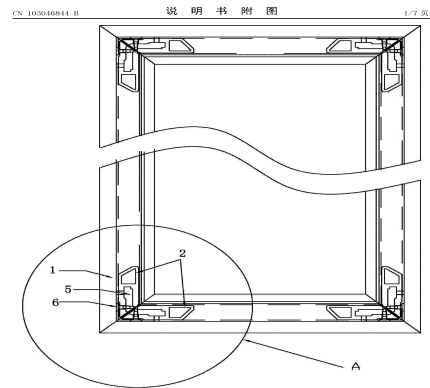


图 1

8

Variable actuation rate shutter louvers

Publication: **CN 103046852 B 20150520**

Applicant: GM GLOBAL TECH OPERATIONS INC

Inventor: CHINTA BALAKRISHNA

Prio: US 20111013 201113272422

Appl.No: CN201210390106

IPC: E06B 7/084

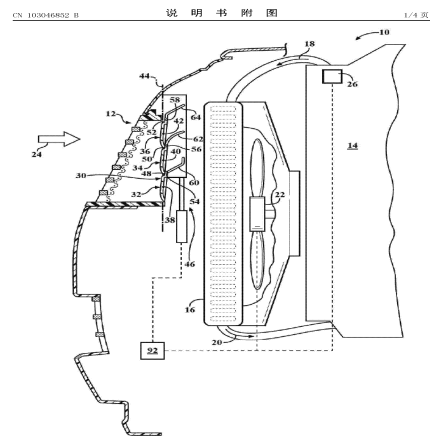


图 1

8

Embedded sealed door-window structure

Publication: **CN 103046853 B 20150520**

Applicant: TIANJIN HUIFENG HONGCHUAN PLASTIC PROFILE CO LTD

Inventor: SONG HONGCHUAN

Prio:

Appl.No: CN201310035973

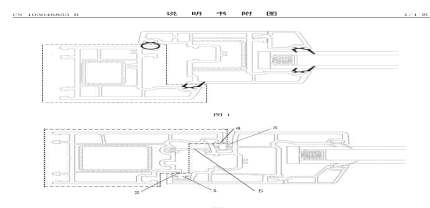


图 1

8

IPC: E06B 7/16

Safety window

Publication: [CN 103046854 B 20150527](#)

Applicant: LIU HAITAO
Inventor: LIU HAITAO; ZHANG FALIANG; ZHANG GAOMAN; ZHANG YONGHUA; ZHANG YONGQIANG

Prio:
Appl.No: CN201310016928
IPC: E06B 9/04

CN 103046854 B 说明书附图 1/3页

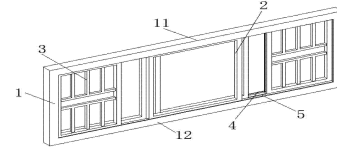


图 1

5

Fireproof foam concrete door core plate and preparation method thereof

Publication: [CN 103089118 B 20150513](#)

Applicant: HENAN YONGLI BUILDING MATERIAL CO LTD
Inventor: GAO ERNI; LU HUIYONG; LU XUELI; WANG XUEJUAN

Prio:
Appl.No: CN201210426017
IPC: E06B 3/70

Green fire door core and manufacturing method of same and fire door

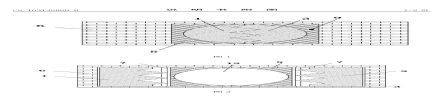
Publication: [CN 103089126 B 20150513](#)

Applicant: FOSHAN KECHENG ADVANCED FIREPROOF MATERIAL TECHNOLOGY CO LTD; KUANG JUCHI; LIANG ZHICHANG
Inventor: KUANG JUCHI; WU RONGXIU

Prio:
Appl.No: CN201310005990
IPC: E06B 5/16

Science fiction door

Publication: [CN 103132869 B 20150520](#)



5

Applicant: SUZHOU ZHENGZHIHUN PATENT TECHNOLOGY SERVICE CO LT
Inventor: CHEN QIAOYUN; ZHENG MAODE
Prio:
Appl.No: CN201210469191
IPC: E06B 3/46

Closure assembly equipped with ventilation and locking system

Publication: **CN 103180536 B 20150527**

Applicant: NINGBO YINZHOU SONGJING IND AND TRADE CO LTD
Inventor: DONG ZHIJUN
Prio: CN 20100802 2010075639
Appl.No: CN201080068532
IPC: E06B 7/02

CN 103180536 B 说明书附图 1/9页

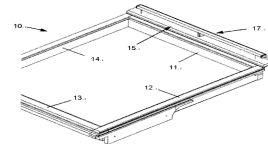


图 1

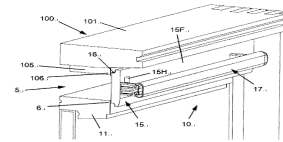


图 2

14

Shutter

Publication: **CN 103255996 B 20150520**

Applicant: NINGBO GELEKO COMMODITY COMPANY LTD
Inventor: ZHANG ZHOUYI
Prio:
Appl.No: CN201310172927
IPC: E06B 9/322

CN 103255996 B 说明书附图 1/9页

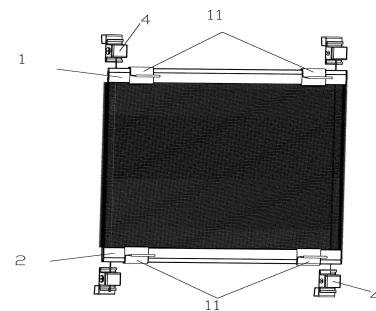


图 1

7

End door of rail transit platform

Publication: **CN 103266835 B 20150513**

Applicant: SHANGHAI JIACHENG RAILWAY TRANSP SAFETY SYSTEM CO LTD

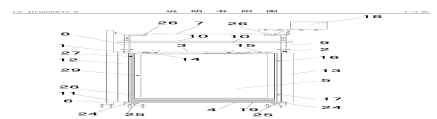


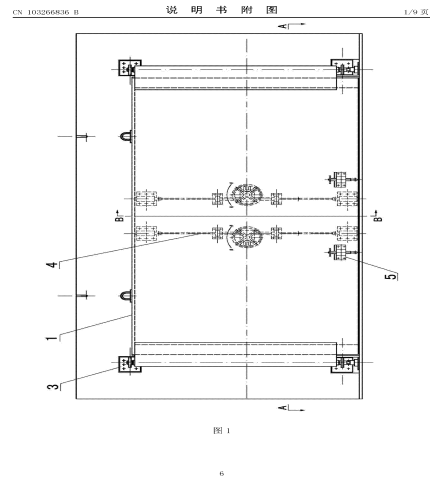
图 1

11

Inventor: SHI HEPING; YIN XIANAO; ZHANG CHAOYING
Prio:
Appl.No: CN201310225199
IPC: E06B 5/00

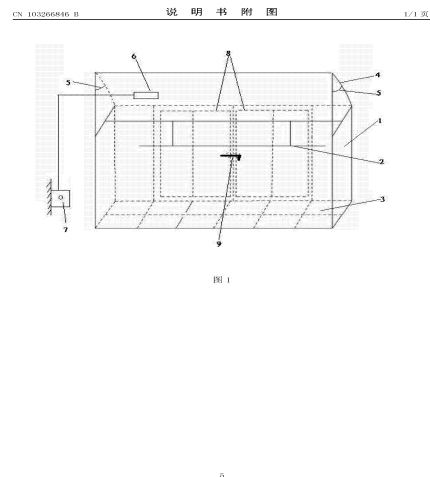
High-resistance protection door for metro transfer channel

Publication: **CN 103266836 B 20150513**
Applicant: ENGINEER NO 4 DESIGN & RES INST OF HEADQUARTERS OF THE GENERAL STAFF OF THE P L A
Inventor: HAO LUBO; HU SHENGWEI; HUANG JINGHUA; LIU SHOU; LIU YIPING; LU XUZHI; WANG YANGMING; YANG HAIPING; YANG JIE
Prio:
Appl.No: CN201310189507
IPC: E06B 5/10



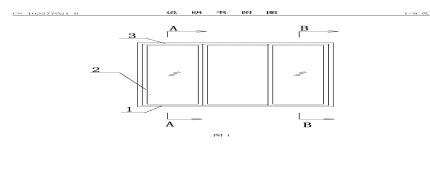
Intelligent multifunctional safety window

Publication: **CN 103266846 B 20150520**
Applicant: SUZHOU HUANYAN ELECTRICAL CO
Inventor: XU ZHIJIAN
Prio:
Appl.No: CN201310186250
IPC: E06B 9/02



Aluminum alloy door and window capable of linearly arranged

Publication: **CN 103277021 B 20150520**
Applicant: DONGCHENG BRANCH OF DONGGUAN HUAFENG CURTAIN WALL DECORATION ENGINEERING CO LTD



Inventor: GUO JIANTANG; HUANG GUOSI; HUANG HANQIANG; HUANG HAOHUI; HUANG WEICHENG; HUANG YUQIANG; LI JU; PAN LIHUA; XIAO DONG; YANG ZHIGANG

Prio:

Appl.No: CN201310258941

IPC: E06B 3/46

Screen assembly for a window or door opening

Publication: [CN 103291202 B 20150527](#)

Applicant: CENTALAND DESIGN CO LTD

Inventor: BILEK CHARLES; HABERLAND MARTIN; HICKS CRAIG FREDERICK; PACHOLKE GLEN; SIMEON ROBIN; SPORK NIGEL

Prio: AU 20060526 2006902850

Appl.No: CN201310130357

IPC: E06B 9/40

CN 103291202 B 说明书附图 1/14页

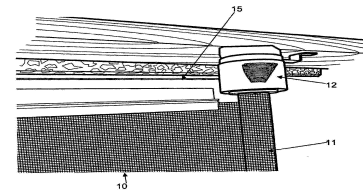


图 1

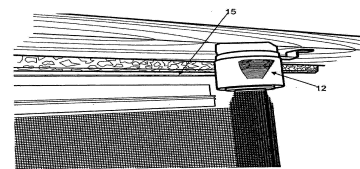


图 2

14

Assembling integrated type window frame for steel structure, and construction method of assembling integrated type window frame

Publication: [CN 103306573 B 20150520](#)

Applicant: GUIZHOU HUITONG SHENFA STEEL STRUCTURE CO LTD; HUNAN JINHAI STEEL STRUCTURE CO LTD; UNIV GUIZHOU

Inventor: JIN XIN; MA HUA; MA KEJIAN; WANG ZHOUQIAO; WEI YANHUI; XIAO JIANCHUN; XU WEI; ZENG YONG; ZHANG HUAGANG; ZHU FANGZHENG

Prio:

Appl.No: CN201310262389

IPC: E06B 1/02

CN 103306573 B 说明书附图 1/4页

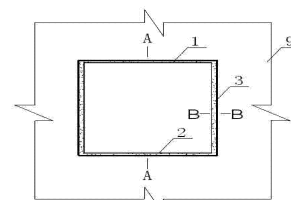
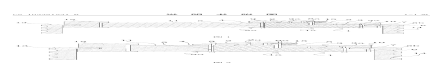


图 1

7

Combined door frame convenient for standardized machining

Publication: [CN 103321531 B 20150506](#)



Applicant: GUANGDONG SINPOLO DOOR CO LTD
Inventor: WU GUOHONG
Prio:
Appl.No: CN201310173927
IPC: E06B 1/52

Curtain bead chain fixator

Publication: **CN 103321564 B 20150506**

Applicant: NINGBO XIANFENG NEW MAT CO LTD
Inventor: LU XIANFENG; SANG JIANHUA
Prio:
Appl.No: CN201310225162
IPC: E06B 9/56

CN 103321564 B 说明书附图 1/9页

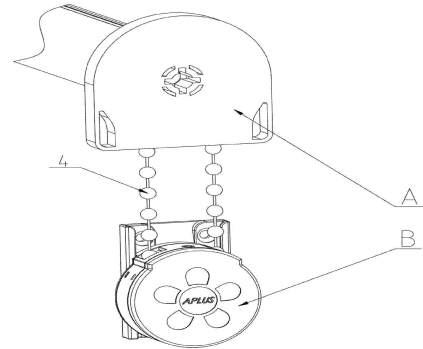


图 1

7

Wind-proof and sun-shading roller curtain pulled by synchronous belt

Publication: **CN 103352653 B 20150506**

Applicant: NINGBO XIANFENG NEW MAT CO LTD
Inventor: LU XIANFENG; YANG SHIJU
Prio:
Appl.No: CN201310256894
IPC: E06B 9/42

CN 103352653 B 说明书附图 1/22页

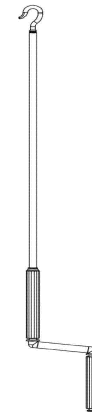


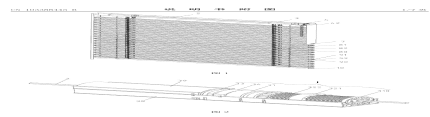
图 1

8

Flat and round rope winding mechanism for variable pitch window shutter lifting overturning machine

Publication: **CN 103388445 B 20150520**

Applicant: HANGZHOU WOKASOLAR TECHNOLOGY

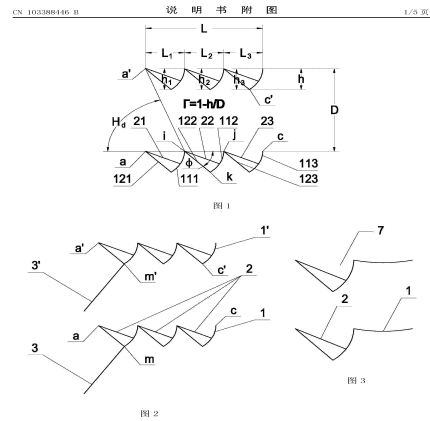


Inventor: WU CHENGSHANG; XU HUIWEN; ZHANG YIFEI
Prio:
Appl.No: CN201310314877
IPC: E06B 9/322

Multi-blade-combined saw toothed louvre blade

Publication: **CN 103388446 B 20150520**

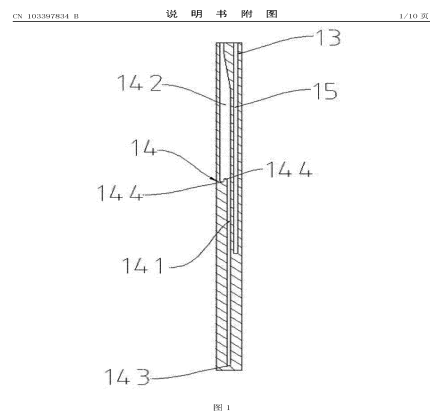
Applicant: HANGZHOU WOKASOLAR TECHNOLOGY
Inventor: ZHANG YIFEI
Prio:
Appl.No: CN201310245437
IPC: E06B 9/386



Multi-section location type sliding door mechanism

Publication: **CN 103397834 B 20150527**

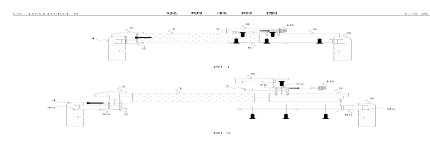
Applicant: SUZHOU ANTAI AIRTECH CO LTD
Inventor: JIANG YAO; MA JIANHUI; WU ZHIJIAN; YAO XIAOMIN
Prio:
Appl.No: CN201310371807
IPC: E06B 3/44



Combined type door frame processed in standardized mode and combination method thereof

Publication: **CN 103410404 B 20150506**

Applicant: GUANGDONG SINPOLO DOOR CO LTD
Inventor: WU GUOHONG

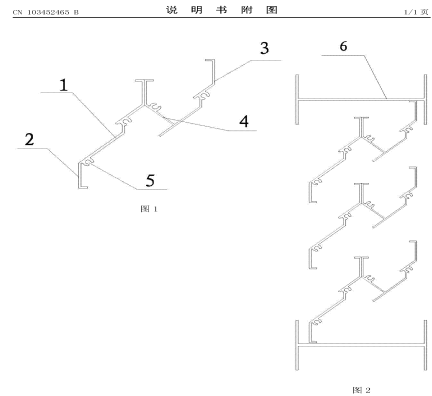


Prio:
Appl.No: CN201310386268
IPC: E06B 1/06

Louvre blade capable of forming air backflow cavity

Publication: **CN 103452465 B 20150513**

Applicant: JIANGSU SHENMA ALUMINUM CO LTD
Inventor: XU DERONG
Prio:
Appl.No: CN201310393741
IPC: E06B 9/02

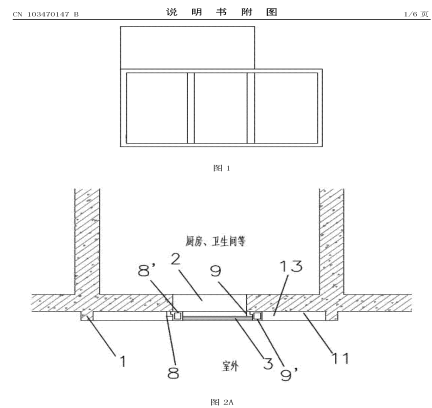


6

Novel sliding window

Publication: **CN 103470147 B 20150520**

Applicant: XIAMEN HORDOR ARCHITECTURE & ENGINEERING DESIGN GROUP CO LTD
Inventor: CAI MINGWEI
Prio:
Appl.No: CN201310455425
IPC: E06B 3/46

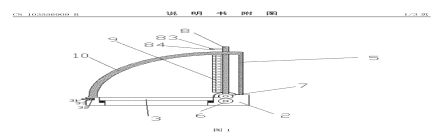


7

Sealed bin gate system driven by gears and provided with locking stop pin

Publication: **CN 103556909 B 20150520**

Applicant: YE KUI
Inventor: QU XIAOPEI; YE KUI; ZHANG XIA
Prio:
Appl.No: CN201310586794



7

IPC: E06B 3/36

Seal bin gate system provided with lock pin and driven by screw rod

Publication: [CN 103556910 B 20150527](#)

Applicant: SUN XUDONG
Inventor: SUN XUDONG
Prio:
Appl.No: CN201310587338
IPC: E06B 3/36

CN 103556910 B 说明书附图 1/3页

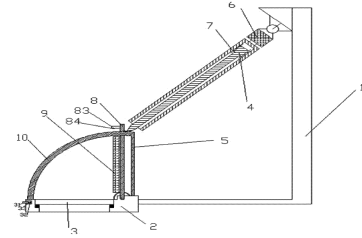


图 1

7

Connecting piece and window alarm guardrail provided with same

Publication: [CN 103556931 B 20150527](#)

Applicant: ZHANG CHAOFENG
Inventor: HUANG SHANNENG; ZHANG CHAOFENG
Prio:
Appl.No: CN201310582454
IPC: E06B 9/02

CN 103556931 B 说明书附图 1/3页

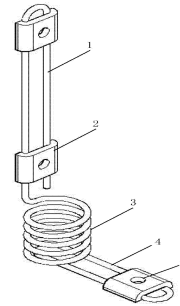


图 1

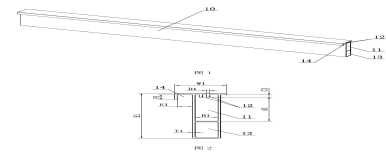
6

Control cabinet door frame and embedded frame type profile screen cabinet door

Publication: [CN 103573107 B 20150520](#)

Applicant: BEIJING XINLI CREATE ELECTRONIC EQUIPMENT CO LTD
Inventor: ZHAO CHANGQUAN
Prio:
Appl.No: CN201310600012

CN 103573107 B 说明书附图 1/3页



...

IPC: E06B 3/16

Foamed aluminum safety door processing method

Publication: [CN 103603577 B 20150520](#)

Applicant: ANHUI SANCHE ENERGY SAVING TECHNOLOGY CO LTD

Inventor: ZHAO YUNQING

Prio:

Appl.No: CN201310560616

IPC: E06B 3/70

Sealing bin door system driven by screw and provided with elastic materials on vertical portions

Publication: [CN 103603580 B 20150527](#)

Applicant: CHEN XUECHAN

Inventor: CHEN XUECHAN

Prio:

Appl.No: CN201310588330

IPC: E06B 5/00

CN 103603580 B 说明书附图 1/3页

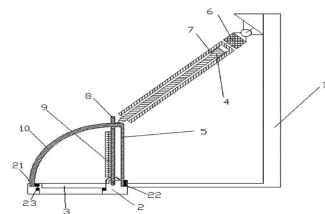


图 1

7

Screen door / window used on doors and windows

Publication: [CN 103615175 B 20150527](#)

Applicant: HARBIN CHUANGBANLV TECHNOLOGY DEV CO LTD

Inventor: CONG QINGYAN; LI GUIFA

Prio:

Appl.No: CN201310661465

IPC: E06B 3/26

CN 103615175 B 说明书附图 1/7页

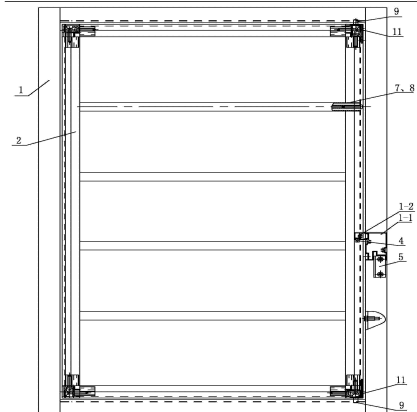
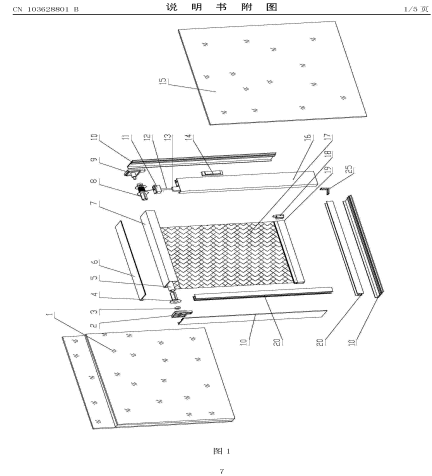


图 1

8

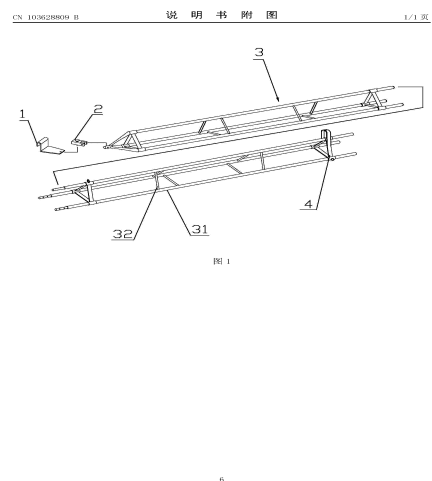
Integrated energy-saving window internally provided with sun-shading roller shutter

Publication: [CN 103628801 B 20150513](#)
Applicant: WUXI ZONGHENG SCIENCE AND TECHNOLOGY CO LTD
Inventor: JIN SHUZHONG; XIA PIXIN; ZHU YANMING
Prio:
Appl.No: CN201310690729
IPC: E06B 9/40



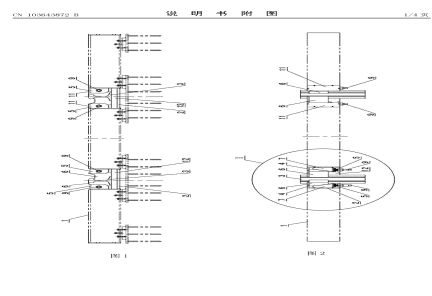
Man riding rotary horizontal ladder

Publication: [CN 103628809 B 20150513](#)
Applicant: SHAOXING POWER SUPPLY CO OF STATE GRID ZHEJIANG ELECTRIC POWER CO; STATE GRID CORP CHINA; STATE GRID ZHEJIANG ELECTRIC POWER CO
Inventor: LUO TIANYU; MA JUNHAI; YANG XIAOFENG
Prio:
Appl.No: CN201310659918
IPC: E06C 1/36



Novel track sealing device

Publication: [CN 103643872 B 20150506](#)
Applicant: CHINA INST BUILDING STANDARD DESIGN & RES
Inventor: CHENG ZHIQIANG; LIU LIGUO; LIU ZHENG; LU YIDONG; TIAN JIANGZE; WANG SHUJING; XU SHENG; YUAN DAIGUANG; ZHANG RUILONG
Prio:
Appl.No: CN201310666583



IPC: E06B 7/22

Bottom rail lifting cord regulating mechanism of venetian blind without pull cord

Publication: **CN 103670250 B 20150527**

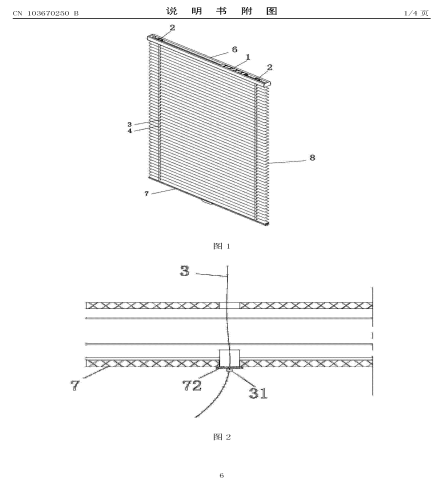
Applicant: GUANGZHOU FENG DING HARDWARE
PRODUCT CO LTD

Inventor: CHEN HEXIONG

Prio:

Appl.No: CN201310742171

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Intelligent movable high-rise escape scaling ladder based on singlechip control

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