

Title (en)

OPERATING DEVICE FOR A TILT AND TURN DOOR OR WINDOW

Title (de)

BETRIEBSVORRICHTUNG FÜR KIPPBARE UND DREHBARE TÜR ODER FENSTER

Title (fr)

DISPOSITIF DE COMMANDE POUR UNE PORTE OU UNE FENÊTRE OSCILLO-BATTANTE

Publication

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Application

EP 16716693 A 20160322

Priority

- IT BO20150149 A 20150327
- IB 2016051594 W 20160322

Abstract (en)

[origin: WO2016157023A1] Described is an operating device for a tilt and turn door or window (1) comprising a fixed frame (2) and a movable sash (3) connected to each other along a corresponding vertical upright (4, 5) by a pair of hinges, a lower hinge (6) and an upper hinge (7), and a control handle (8) positioned on the upright (9) of the sash (3) opposite to that connected to the fixed frame (2); the operating device (100) comprises a slider (10) for transmitting the movement of the handle (8) housed and slidable inside a groove (11) of an upper crosspiece (12) of the sash (3); a positioning body (13) fixed in the groove (11) of the upper crosspiece (12); the body (13) has a slot (14) with a longitudinal operating extension (L); a connecting arm (15) articulated, at a first end, to the movable portion of the upper hinge (7) and, at the other end, to the positioning body (13) by means of a pin (16) housed in the slot (14) of the positioning body (13); the arm (15) has a relative surface provided with two elements (17, 18) protruding towards the groove (11) and a free zone (19), spaced from each other along the arm (15); a selector element (20) connected to the slider (10), slidable inside the groove (11) of the upper crosspiece (12) for intercepting, according to a sequence predetermined by the relative position of the protruding elements (17, 18) and the free zone (19), the protruding elements (17, 18) and free zone (19), in such a way as to define corresponding closed, turning opening and tilted open configurations which can be adopted by the movable sash (3), the device (100) comprising at least one (18) of the protruding elements (17, 18) provided with removable positioning means (21) acting between at least one (18) of the protruding elements (17, 18) and the connecting arm (15) for modifying the position of the protruding element (18) relative to the other protruding element (17), along the arm (15), in such a way as to vary the sequence of configurations which can be adopted by the movable sash (3).

IPC 8 full level

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CPC (source: CN EP)

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Citation (opposition)

Opponent : Anonymous

- EP 1715125 A2 20061025 - FUHR CARL GMBH & CO KG [DE]
- EP 2080863 A1 20090722 - VAN PARYS REMI EMIEL [BE]
- BE 200800036 A 20080117
- DE 4313610 A1 19941027 - SCHUECO INT KG [DE]
- ANONYMOUS: "Optima. Assembly drawings", REYNAERS, 1 September 2009 (2009-09-01), pages 12K.F.062 - 612K.F.064, XP055937859, [retrieved on 20220704]

Cited by

EP4056797A1

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