

Title (en)

OPENING AND CLOSING DEVICE FOR LIFT-UP SLIDING DOORS AND WINDOWS

Title (de)

ÖFFNE- UND SCHLIESSVORRICHTUNG FÜR AUFWÄRTSSCHIEBETÜREN UND -FENSTER

Title (fr)

DISPOSITIF D'OUVERTURE/FERMETURE POUR PORTES ET FENETRES COULISSANTES A SYSTEME DE LEVAGE

Publication

EP 1891292 A4 20130522 (EN)

Application

EP 06783742 A 20060825

Priority

- KR 2006003355 W 20060825
- KR 20050127054 A 20051221
- KR 20060058719 A 20060628

Abstract (en)

[origin: WO2007073027A1] An opening and closing device for lift-up sliding doors and windows is disclosed. The opening and closing device includes a roller unit (10), which removably contacts a rail (203b) of a support frame (203), a pane frame support unit (20), which is provided in a pane frame (205) and moves away from and approaches the roller unit, a handle (5), which is rotatably provided on a leading end of the pane frame, and a lift operating unit (7), which moves the pane frame support unit with respect to the roller unit. The lift operating unit (7) includes a lift operating bar (40), which is movably provided in the leading end of the pane frame and is coupled to the roller unit, and a lift operating gear unit (60). The lift operating gear unit has a drive gear (61), which is coupled to the handle, a driven gear (65), which increases the rotating force of the drive gear, and a rack gear (67), which engages with the driven gear.

IPC 8 full level

E05D 15/56 (2006.01); **E05B 63/20** (2006.01); **E05B 65/08** (2006.01)

CPC (source: EP)

E05B 63/20 (2013.01); **E05B 65/087** (2013.01); **E05C 9/021** (2013.01); **E05C 9/24** (2013.01); **E05D 15/565** (2013.01); **E05C 2009/1866** (2013.01); **E05Y 2201/64** (2013.01); **E05Y 2201/71** (2013.01); **E05Y 2201/712** (2013.01); **E05Y 2201/722** (2013.01); **E05Y 2600/20** (2013.01); **E05Y 2800/00** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01)

Citation (search report)

- [Y] DE 2804274 A1 19780817 - PANTO S P A
- [Y] KR 200397177 Y1 20050930
- [Y] EP 0021080 A1 19810107 - GRETSCH UNITAS GMBH [DE]
- [A] DE 1948274 U 19661020 - FERCO SARL [FR]
- See references of WO 2007073027A1

Cited by

EP3901402A1

Designated contracting state (EPC)

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