

Title (en)

Carriage unit for sliding door or window of the lift and slide type

Title (de)

Trägervorrichtung für Hebe-Schiebe-Tür oder Fenster

Title (fr)

Ensemble de chariot du type levage et coulissement pour une porte ou fenêtre coulissante

Publication

EP 2712990 A1 20140402 (EN)

Application

EP 13186066 A 20130926

Priority

IT BO20120521 A 20120926

Abstract (en)

Described is a carriage unit applicable to sliding doors or windows of the lift and slide type (1) comprising a fixed frame (2) and a sash (3) horizontally slidable relative to the frame (2), between an open position and a closed position; the carriage unit comprises at least one main carriage (4, 5), associated, in use, on the lower crosspiece (6) of the sash (3) and resting on a horizontal base track (7) to allow the sliding of the sash (3) in both the opening and closing directions; the main carriage (4, 5) comprises a first box-type frame (8) having an upper portion (8a) configured to be slidably coupled, in use, to the lower crosspiece (6) of the sash; a second frame (9) supporting a pair of wheels (10, 11) positioned, in use, resting on the track (7); the second frame (9) is configured to allow a pivoting movement of the two wheels (10, 11) about a single pivot point (P1); a link mechanism (12) for lifting and lowering the sash (3) relative to the track (7), corresponding to the open and closed positions, respectively, of the sash (3); the link mechanism (12) is positioned and acting between the first frame (8) and, in use, a drive linkage (13) controlled by a handle (14) positioned on the sash (3).

IPC 8 full level

E05D 15/06 (2006.01); **E05D 15/56** (2006.01)

CPC (source: BR EP)

E05D 15/0665 (2013.01 - BR EP); **E05D 15/565** (2013.01 - BR EP)

Citation (applicant)

- DE 7816563 U1 19801204
- EP 1298271 A2 20030402 - GRETSCH UNITAS GMBH [DE]
- EP 1298272 A2 20030402 - GRETSCH UNITAS GMBH [DE]
- EP 1437471 A2 20040714 - GRETSCH UNITAS GMBHBAUBESCHLAE [DE]
- KR 200397177 Y1 20050930
- EP 2220316 A1 20100825 - GSG INT SPA [IT]
- DE 2443647 A1 19760401 - JOHANNES SCHMID FENSTERFABRIK
- BE 645016 A 19640701

Citation (search report)

- [A] KR 200397177 Y1 20050930
- [AD] EP 2220316 A1 20100825 - GSG INT SPA [IT]
- [A] DE 2443647 A1 19760401 - JOHANNES SCHMID FENSTERFABRIK
- [A] BE 645016 A 19640701
- [A] US 5257477 A 19931102 - KVASNES ODDMUND J [NO]
- [A] FR 2300879 A1 19760910 - DEVILCA FB [BE]

Cited by

DE102016212793A1; WO2018011234A1; CN112647807A; EP3064683A1; DE102016212793B4; WO2016023738A1; WO2017144249A1; DE102016212793C5

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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