

Title (en)

Anti-lifting device for sliding doors or windows

Title (de)

Aushebesicherungsvorrichtung für Schiebetüren oder -fenster

Title (fr)

Dispositif anti-relevage pour fenêtres ou portes coulissantes

Publication

EP 2133490 A3 20120314 (EN)

Application

EP 09162000 A 20090605

Priority

IT BO20080366 A 20080610

Abstract (en)

[origin: EP2133490A2] An anti-lifting device for sliding doors or windows comprises: a fixed frame (2); a mobile frame (3); a pair of carriages (4,5) connected to the lower rail (6) of the sash (3); a control element (8), located on the sash (3), connected to operating means and to closing means and designed to define a sash (3) open and a sash closed configuration; a contact element or plug (11) projecting from the sash (3) upper rail (12) close to its first upper corner, and in practice designed to prevent sash (3) lifting relative to the fixed frame (2); a positioner/spacer element (13); the positioner/spacer element (13) having, along its length, a second contact element (14), projecting above the positioner/spacer element (13), the first end (13a) of the positioner/spacer element being able to connect to the first element (11) to form a single rigid anti-lifting unit.

IPC 8 full level

E05D 15/06 (2006.01); **E05B 17/20** (2006.01); **E05B 65/08** (2006.01); **E06B 5/11** (2006.01)

CPC (source: EP)

E05B 17/2088 (2013.01); **E05B 65/08** (2013.01); **E05D 15/0691** (2013.01); **E05Y 2201/614** (2013.01); **E05Y 2600/20** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01)

Citation (search report)

- [X] DE 20118906 U1 20020418 - GRETSCH UNITAS GMBH [DE]
- [A] DE 29713191 U1 19970925 - ALL CO SPA [IT]
- [A] US 5386664 A 19950207 - LUMENELLO PETER [US]

Cited by

DE102016216835A1; DE102016216835B4; FR3017407A1; US2020232271A1; US11739588B2; GB2586272A; GB2586272B; WO2018046285A1

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2133490 A2 20091216; **EP 2133490 A3 20120314**; **EP 2133490 B1 20160831**; **EP 2133490 B9 20161221**; IT BO20080366 A1 20091211

DOCDB simple family (application)

EP 09162000 A 20090605; IT BO20080366 A 20080610