

Title (en)

Return and damping device for sliding doors, drawers and the like

Title (de)

Rückführungs- und Federungsvorrichtung für Schiebetüren, Schubladen und dergleichen

Title (fr)

Dispositif de retour et d'amortissement pour portes coulissantes, tiroirs et similaires

Publication

EP 2136021 A3 20131225 (EN)

Application

EP 09162794 A 20090616

Priority

IT RM20080320 A 20080618

Abstract (en)

[origin: EP2136021A2] A return and damping device for sliding doors, drawers and the like comprising a sliding rail or profile for sliding shutters 204 and a shutter 200, between which the device is interposed to accompany the shutter or door to be received at the full opening or closing stop position of the shutter. Said damping device 1 comprises a shock absorber 4 of the piston type, connected by a first end 42 to the rail and pivotally at the second end 41 to a hook 5. The hook 5 is adapted to slide in a guide between a first position, in which the shock absorber 4 is retracted and the door is in a distal position, and a second position in which the shock absorber is extended and the door is in a proximal position with respect to the device 1. The hook 5 is adapted to keep the door blocked. In particular, it is caused by the guide to rotate about said end 41 close to the sliding position in which the shock absorber is retracted, so as to release the shutter, while in some intermediate positions until the extended position of the shock absorber, the door remains secured to the hook which, by cooperating with the shock absorber, accompanies it in a damped manner to the full opening or closing.

IPC 8 full level

E05F 5/00 (2006.01); **E05F 1/16** (2006.01)

CPC (source: EP)

E05F 1/16 (2013.01); **E05F 5/003** (2013.01); **E05Y 2201/21** (2013.01); **E05Y 2201/256** (2013.01); **E05Y 2201/264** (2013.01); **E05Y 2201/478** (2013.01); **E05Y 2600/45** (2013.01); **E05Y 2800/24** (2013.01); **E05Y 2800/742** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/146** (2013.01)

Citation (search report)

- [XAY] DE 102006019351 A1 20071025 - ZIMMER GUENTHER [DE], et al
- [XA] DE 102006007897 A1 20061026 - EKU AG [CH]
- [XAY] EP 1705330 A1 20060927 - MURAKOSHI SEIKOH KK [JP]
- [Y] EP 1700985 A1 20060913 - RIOJA CALVO MIGUEL ANGEL [ES]
- [YA] DE 20315124 U1 20040226 - HETTICH HEINZE GMBH & CO KG [DE]

Cited by

CN105452586A; CN105927086A; DE102010007128A1; EP2354407A3; DE102010007128B4; WO2018009049A1

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)

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