

Title (en)
Device helping to close sliding doors

Title (de)
Vorrichtung zur Unterstützung des Schließens von Schiebetüren

Title (fr)
Dispositif aidant à fermer les portes coulissantes

Publication
EP 2546444 A2 20130116 (EN)

Application
EP 12173957 A 20120627

Priority
ES 201131208 A 20110715

Abstract (en)
A device helping to close sliding doors, comprising a frame (1) mounted in the inner part of an end of a guiding channel (2a) being finished off by opposing flanges in its ends, which is part of a conventional guide-profile (2) of the assembly of sliding doors (3) and which is inherent in the displacement rail (2b) of the wheels (6) of the sliding door (3), in whose frame (1) a closing damper (4) is installed and a swinging trigger (5) is adapted to engage with a side hook (6a) of the wheel (6) of the sliding door (3), which is forward according to the closing direction, and there is a tension spring (7) having an end attached to the swinging trigger (5) and it is tightened when opening the sliding door; taking into account that the reference of forward of the device will be understood as the first part the wheel reaches in the advancing direction of the closing of the sliding door, and vice versa. In the device exits a flexible brace (8) having an end attached to the swinging trigger (5) and, in a rear pulley (9), it forms a flat loop along which it extends rearwards in the rear pulley (9), leaves it forwards and it extends out of the frame (1) locating another end being engaged to a removable carriage (10) being susceptible to receive the rear end of an independent tension spring (7) being located out of the frame (1) and having a forward end attached to an outer anchorage (11) being susceptible to be fixed along the guiding channel (2a) selectively.

IPC 8 full level
E05F 5/00 (2006.01); **E05F 1/16** (2006.01)

CPC (source: EP ES)
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Cited by
JP2015068065A; KR20180097307A; KR102327282B1; US9611684B2; KR20180097308A; US2015204129A1; CN109025604A; CN105986720A; CN110621841A; CN104500127A; CN104763261A; US2016333622A1; US9708844B2; WO2018210901A1; WO2017018890A1; US10513876B2

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