

Title (en)

Safety device without contact specifically for vertical sliding closing systems

Title (de)

Sicherheitsvorrichtung ohne Kontakt, insbesondere für vertikale Schiebeschließsysteme

Title (fr)

Dispositif de sécurité sans contact, en particulier pour des systèmes de fermeture à coulissement vertical

Publication

EP 2273051 B1 20120627 (EN)

Application

EP 10425155 A 20100511

Priority

IT BS20090101 A 20090609

Abstract (en)

[origin: EP2273051A1] The invention concerns a safety device without contact for motorized doors movable in height, The device comprises two opposite safety units (14) attached to the internal face of the door, on its lower side, carrying means for defining at least an optical barrier positioned on the movement trajectory of the door and designed to provoke the stoppage of said door in the presence of an obstacle. The means for defining the optical barrier (23) are on board the parallel cursors (16, 26, 36)) each one belonging to one of said two safety units (14). The cursors are guided in cam slots of respective supporting elements and each one is susceptible to combined horizontal and vertical translation movements to position the optical barrier in parallel below the lower side and in the plane of the door during its opening and closing movements, and in parallel at a distance from the internal face of the door when the latter is in the lowered closed position.

IPC 8 full level

E05F 15/00 (2006.01)

CPC (source: EP)

E05F 15/43 (2015.01); **E05F 2015/436** (2015.01); **E05Y 2600/13** (2013.01); **E05Y 2600/46** (2013.01); **E05Y 2900/106** (2013.01)

Cited by

EP3696360A1; IT201900001999A1; JP2013047415A

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2273051 A1 20110112; EP 2273051 B1 20120627; ES 2390045 T3 20121106; IT 1397700 B1 20130124; IT BS20090101 A1 20101210

DOCDB simple family (application)

EP 10425155 A 20100511; ES 10425155 T 20100511; IT BS20090101 A 20090609