

Title (en)
DEVICE FOR SECURING A GARAGE DOOR

Title (de)
VORRICHTUNG ZUR BEFESTIGUNG EINER GARAGENTÜR

Title (fr)
DISPOSITIF POUR FIXER UNE PORTE DE GARAGE

Publication
EP 1831493 A4 20130904 (EN)

Application
EP 05825319 A 20051222

Priority
• NO 2005000472 W 20051222
• NO 20045605 A 20041222

Abstract (en)
[origin: WO2006068498A1] The present invention relates to a bottom bracket for fall arrest of a garage door, where the bottom bracket is arranged to a door leaf of the garage door and set up to be connected to a suspension wire (52) from the spring suspension of the garage door, comprising an L-shaped corner plate (12), fastened adjoining a side edge of said door leaf, with a bolt (14) and a pulley wheel (16) fastened to the one side edge of the corner plate (12), set up to roll in an adjoining side rail (50) of the garage door, and where the corner plate (12) on its other side edge comprises a rotatable fall arrest unit (22;222;322) with a locking edge (34;234) that, under the influence of a spring force, is set up to engage with the side rail (50) to stop or brake the garage door if the suspension wire (52) breaks or becomes loose. The fall arrest unit (22;222;322) is rotatable arranged to a suspension bolt (20;220;320) fastened on the side edge of the corner plate against the side rail, as the locking edge (34;234) is placed diagonally and directed downwards at a distance adjoining and against wall fastening side of the side rail (50), where said suspension wire (52) is eccentrically connected to the fall arrest unit (22;222;322) in relation to its mounting point, and contributes to maintaining the locking edge (34;234) at a given distance from the wall fastening side of the side rail (50) when the suspension wire (52) is taut, and the bottom bracket comprises spring means (46;146;246,346) arranged to rotate the fall arrest unit (22;222;322) so that the locking edge (34;234) engages with an outwardly extending protrusion (54) on the wall fastening side of the side rail (50), if the suspension wire (52) breaks or becomes loose.

IPC 8 full level
E05D 13/00 (2006.01)

IPC 8 main group level
E05D (2006.01)

CPC (source: EP)
E05D 13/006 (2013.01); **E05D 15/24** (2013.01); **E05Y 2900/106** (2013.01)

Citation (search report)
• [XDAI] EP 1199432 A1 20020424 - CARDO DOOR CONTINENTAL B V [NL]
• [X] US 2003041520 A1 20030306 - MULLET WILLIS J [US]
• [IA] DE 2735123 A1 19790208 - KRUEGER KG MASCHFAB GMBH
• [I] CA 1108198 A 19810901 - MITRO TEBOR
• [I] FR 2746842 A1 19971003 - CARDO DOOR FRANCE [FR]
• [A] EP 1229197 A2 20020807 - HOERMANN KG [DE]
• See references of WO 2006068498A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006068498 A1 20060629; EP 1831493 A1 20070912; EP 1831493 A4 20130904; NO 20045605 D0 20041222

DOCDB simple family (application)
NO 2005000472 W 20051222; EP 05825319 A 20051222; NO 20045605 A 20041222