

Title (en)

Door closing device and door device provided therewith

Title (de)

Türschließvorrichtung sowie damit ausgestattete Türvorrichtung

Title (fr)

Dispositif de fermeture de porte et dispositif de porte doté de celui-ci

Publication

EP 2128370 B1 20140514 (EN)

Application

EP 09160008 A 20090512

Priority

JP 2008139107 A 20080528

Abstract (en)

[origin: EP2128370A2] A door closing device includes a device main body 6 attached to a door frame and a guided member 7 attached to a door A. The device main body 6 includes a door closing arm 20 which moves into and out of engagement with the guided member 7 with the turning of the door A, a biasing mechanism which holds the door closing arm 20 in a standby position in which the door closing arm 20 can engage with the guided member 7 when the guided member 7 is not engaged with the door closing arm 20, and forcedly turns the door closing arm 20 in the direction that closes the door A when the guided member 7 is engaged with the door closing arm 20, and a direct-acting shock-absorbing mechanism which suppresses the turning of the door closing arm 20 when the door closing arm 20 is turning in the direction that closes the door A, and promotes the turning thereof when the door closing arm 20 is turning in an opposite direction.

IPC 8 full level

E05F 5/02 (2006.01)

CPC (source: EP KR)

E05F 1/08 (2013.01 - KR); **E05F 1/1066** (2013.01 - EP); **E05F 3/20** (2013.01 - KR); **E05F 5/02** (2013.01 - KR); **E05F 5/027** (2013.01 - EP); **E05Y 2900/132** (2013.01 - EP)

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

DOCDB simple family (publication)

EP 2128370 A2 20091202; **EP 2128370 A3 20110810**; **EP 2128370 B1 20140514**; CN 101592004 A 20091202; CN 101592004 B 20131218; CN 201486333 U 20100526; JP 2009287237 A 20091210; JP 5248917 B2 20130731; KR 101250335 B1 20130403; KR 20090123823 A 20091202

DOCDB simple family (application)

EP 09160008 A 20090512; CN 200910145657 A 20090527; CN 200920155540 U 20090527; JP 2008139107 A 20080528; KR 20090046804 A 20090528