

Title (en)

Door-lock device for a household appliance door

Title (de)

Türverriegelungsvorrichtung für ein Haushaltgerät

Title (fr)

Dispositif de verrouillage de porte pour un appareil ménager

Publication

EP 2479364 B1 20141105 (EN)

Application

EP 12425012 A 20120120

Priority

IT RM20110026 A 20110124

Abstract (en)

[origin: EP2479364A1] The present invention concerns a door lock device (1) for a household appliance door, said door being provided with a locking prong (50), said door lock device (1) comprising a slider (41), provided with an internal compartment (411), and capable to assume a resting position and an operating position, a strut (43), placed in said compartment (411) and slidable in it along said slider (41), a locking hook (42) capable to interact with said locking prong (50), rotatably coupled with an end of said slider (41) and cinematically connected with said strut (43), pushing means (46), placed within said compartment (411) of said slider (41), arranged to exert a force on said strut (43) so as to keep said strut (43) in contact with said locking hook (42), so that when said prong (50) interacts with said locking hook (42), said locking hook (42) rotates and translates, engaging with said locking hook (42), and remaining engaged with said locking prong (42) by the force exerted by said pushing means (46) through said strut (43), so that said slider (41) passes from said resting position to said operating position.

IPC 8 full level

E05C 19/02 (2006.01); **A47L 15/42** (2006.01); **E05B 47/06** (2006.01); **E05C 5/00** (2006.01)

CPC (source: EP US)

A47L 15/4259 (2013.01 - EP); **D06F 37/42** (2013.01 - EP US); **E05B 47/06** (2013.01 - EP); **E05C 5/00** (2013.01 - EP); **E05C 19/024** (2013.01 - EP US); **E05B 2015/0431** (2013.01 - EP); **E05B 2015/0493** (2013.01 - EP); **E05B 2015/0496** (2013.01 - EP)

Cited by

WO2020040653A1; US12024809B2; CN108309185A; CN108420382A

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 RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2479364 A1 20120725; **EP 2479364 B1 20141105**; IT 1404221 B1 20131115; IT RM20110026 A1 20120725

DOCDB simple family (application)

EP 12425012 A 20120120; IT RM20110026 A 20110124