

Title (en)

A door lock device of increased safety, particularly for domestic electrical appliances

Title (de)

Sicherheitstürschloss, insbesondere für elektrische Haushaltsgeräte

Title (fr)

Serrure de sécurité pour une porte, notamment pour des appareils électroménagers

Publication

EP 1544387 B1 20101215 (EN)

Application

EP 04106630 A 20041216

Priority

IT TO20031021 A 20031218

Abstract (en)

[origin: EP1544387A2] A door locking device comprising: a support structure (2) with an aperture (3) into which a hook member (4) connected to this door (P) is introduced when the door (P) is closed, a retainer slide (7) movable between a working position in which it is able to obstruct the aperture (3) partially and retain the hook member (4), and a rest position in which it is able to allow disengagement of the hook member (4); and an electro-mechanical control device (27) including a movable lock member (27) displaceable from an inactive to a locking position, in which it is able respectively to allow and prevent the passage of the retainer slide (7) from the working position to the rest position. The device further includes a safety mechanism (30) including a feeler member (31b) sensitive to the position of the hook member (4) when the door (P) is closed and an intervention member (34) associated with the feeler member (31b) and operable, when the hook member (4) is disengaged from the feeler member (31b) whilst the lock member (27) is in the locking position, to interact with the lock member (27) causing it to return to the release position, and with the retainer slide (7) locking it in the said working position.

IPC 8 full level

E05B 47/00 (2006.01); **D06F 37/42** (2006.01); **E05B 17/22** (2006.01); **E05B 63/24** (2006.01); **E05C 19/10** (2006.01)

CPC (source: EP US)

D06F 37/42 (2013.01 - EP US); **E05B 17/22** (2013.01 - EP); **E05B 47/0603** (2013.01 - EP US); **E05B 63/244** (2013.01 - EP); **E05B 47/0046** (2013.01 - EP); **E05B 2047/0069** (2013.01 - EP)

Cited by

EP1936018A1; DE102016008317A1; DE102016008317B4; EP1741378A1; CN110565330A; CN104481277A; CN103649447A; CN102257232A; ITTO20080992A1; ITRM20100128A1; EP2369050A3; CN103228856A; US11352731B2; US11441334B2; WO2010073231A1; WO2019236443A1; US9926728B2; US10806322B2; US11624209B2; US11629528B2; US11891838B2

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DOCDB simple family (application)

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