

Title (en)
A door-lock, particularly for household appliances

Title (de)
Türschloss, insbesondere für Haushaltsgeräte

Title (fr)
Serrure de porte, notamment pour appareils ménagers

Publication
EP 1304436 A2 20030423 (EN)

Application
EP 02023459 A 20021021

Priority
IT TO20011003 A 20011022

Abstract (en)
The device (1) comprises a support structure (2) with an opening (3) for the insertion of a hook (4) connected to a door (5), and a cam member (14) which is rotatable about a pin (13) translatable along an axis parallel to the direction of insertion of the hook (4), and which has a reaction profile (14a) disposed between a first recess or notch and a second recess or notch (14b, 14c). The cam member (14) is capable of: adopting a rest position in which it is adjacent the opening (3) and its reaction profile (14a) bears against a stop member (25), and in which its first notch (14b) faces towards the opening (3) and can house an end portion (4a) of the hook (4) when the latter (4) is inserted in the opening (3), and performing, as a result of a further insertion of the hook (4), a reversible rotational/translational movement towards a working position in which it is adjacent the stop member (25), which engages in its second notch (14c), and in which position the hook-like member (4) is held in the first notch (14b). <??>A toggle mechanism (16) is connected to the cam member (14), and can adopt a first configuration and a second configuration in which it tends to keep the cam member (14) in the rest position and in the working position, respectively. <IMAGE> <IMAGE>

IPC 1-7
E05C 3/24; E05C 5/00; D06F 37/28; D06F 49/00; E05C 3/26; D06F 39/14; E05C 5/02; E05B 15/00; E05B 17/00

IPC 8 full level
D06F 39/14 (2006.01); **E05C 3/24** (2006.01); **E05C 5/00** (2006.01); **E05B 15/00** (2006.01); **E05B 17/00** (2006.01)

CPC (source: EP US)
D06F 37/42 (2013.01 - EP US); **D06F 39/14** (2013.01 - EP US); **E05C 3/24** (2013.01 - EP US); **E05C 5/00** (2013.01 - EP); **E05B 15/0086** (2013.01 - EP); **E05B 17/0025** (2013.01 - EP)

Cited by
EP1741378A1; ITTO20100940A1; CN102648314A; ITRM20090622A1; DE102005033538B4; US2015238065A1; CN111373111A; CN114737834A; US9995067B2; CN113197536A; US2021238888A1; EP2479364A1; ITRM20110026A1; EP2369048A3; US11272826B2; US8459705B2; US8733802B2; WO2018236850A1; WO2015189668A1; WO2007140755A1; WO2012070023A1; WO2011064803A1; US8246089B2; US9487976B2; US2015035295A1; US10858859B2; EP3916181A1; CN113585888A; IT202000012172A1; EP3859106A1; US11739575B2; WO2022268651A1; EP2370737B1

Designated contracting state (EPC)
DE ES FR GB

DOCDB simple family (publication)
EP 1304436 A2 20030423; **EP 1304436 A3 20041208**; **EP 1304436 B1 20070124**; DE 60217790 D1 20070315; DE 60217790 T2 20071115; ES 2281482 T3 20071001; IT TO20011003 A1 20030422

DOCDB simple family (application)
EP 02023459 A 20021021; DE 60217790 T 20021021; ES 02023459 T 20021021; IT TO20011003 A 20011022