

Title (en)
Door locking device, in particular for a domestic electrical appliance

Title (de)
Türverriegelungsvorrichtung für ein elektrisches Haushaltsgerät

Title (fr)
Serrure de porte, notamment pour un appareil ménager électrique

Publication
EP 1674606 A1 20060628 (EN)

Application
EP 05112619 A 20051221

Priority
IT TO20040160 U 20041221

Abstract (en)
The device (1) comprises a monolithic support housing (2), of electrically insulating material, having the shape substantially of a shaped tank, with a main assembly opening (3) and with an intermediate baffle (4) which extends between the main opening (3) and a base wall (5) and divides the area within the housing (2) into a first and a second cavity (6, 7) communicating with one another via a thin slot (8). A lateral wall (9) of the housing (2) comprises a secondary working opening (10) for the insertion into this first cavity (6) of a hook member (11) of a door of the domestic electrical appliance. A slide (12) is mounted in the housing (2) via the main opening (3) and extends into the first and second cavity (6, 7) through the slot (8) and can, in operation, move in translation in the housing (2) adjacent to the lateral wall (9) in a direction (16) parallel to the secondary opening (10). This slide (12) comprises a first and a second portion (13, 14) which extend into the first and second cavity (6, 7) respectively, the first portion (13) comprising a hooking opening (17) facing the secondary opening (10) of the housing (2) and adapted to cooperate with the hook member (11) of the door, the second portion (14) having a locking opening (18). A resilient member (19) is mounted in the first cavity (6) and tends to maintain the slide (12) in a predetermined rest position. An electronically operated control module (24) is mounted through the main opening (3) in the second cavity (7) adjacent to the second portion (14) of the slide (12) and comprises a moving locking member (25) which may be engaged in the locking opening (18) of the second portion (14) of the slide (12).

IPC 8 full level
D06F 39/14 (2006.01); **A47L 15/42** (2006.01); **D06F 37/42** (2006.01)

CPC (source: EP US)
A47L 15/4259 (2013.01 - EP); **D06F 37/42** (2013.01 - EP US); **D06F 39/14** (2013.01 - EP US)

Citation (search report)
• [A] DE 19915669 A1 20001012 - LTD LOCKING TECHNOLOGIES AND D [DE]
• [A] EP 1418266 A2 20040512 - ELETTROTECNICA ROLD SRL [IT]
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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)
EP 1674606 A1 20060628; **EP 1674606 B1 20081203**; AT E416268 T1 20081215; DE 602005011391 D1 20090115; ES 2318429 T3 20090501; IT TO20040160 U1 20050321

DOCDB simple family (application)
EP 05112619 A 20051221; AT 05112619 T 20051221; DE 602005011391 T 20051221; ES 05112619 T 20051221; IT TO20040160 U 20041221