

Title (en)
Door-lock device for a household appliance

Title (de)
Türverriegelung für einen Haushaltsgerät

Title (fr)
Verrouillage de porte pour appareil ménager

Publication
EP 1640493 A3 20071010 (EN)

Application
EP 05108596 A 20050919

Priority
IT TO20040636 A 20040922

Abstract (en)
[origin: EP1640493A2] A door-lock device for a household appliance comprises a body (2) to which there is hinged, via a pin (8), a catch (7) that is capable of angular movement, as well as an actuating system (3-5) having actuator means (3) that can be controlled to determine passage of the locking member (7) between a first inoperative condition, in which opening of the door (9) of the household appliance is enabled, and an operative condition, in which opening of the door (9) is prevented. Switching means (14) are provided for enabling translation of the pin (8), and hence of the catch (7), between a position of normal operation and a position of special operation, both of which stable. In the position of normal operation, the movement of the catch (7) is obtained via the actuating system (3-5), whilst in the position of special operation the catch (7) can assume a second inoperative condition. The switching means (14) can be actuated by applying on the door (9) a force that is considerably greater than the minimum force necessary for opening the door itself when the catch (7) is located in its first inoperative condition.

IPC 8 full level
D06F 37/42 (2006.01); **F24C 14/02** (2006.01)

CPC (source: EP US)
D06F 37/42 (2013.01 - EP US); **F24C 15/022** (2013.01 - EP US)

Citation (search report)
• [XY] DE 19846863 A1 20000413 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
• [X] US 4927996 A 19900522 - GENBAUFFE FRANCIS S [US], et al
• [XY] US 6364376 B1 20020402 - SPARGO THOMAS W [US]
• [A] EP 1388604 A1 20040211 - ELLENBERGER & POENSGEN [DE]

Cited by
US10145565B2; FR2934671A1; ITRM20110342A1; CN107554967A; US11578508B2; US2015308695A1; EP1703212A3; ITTO20100892A1; EP2450510A3; EP2930437A1; IT201600127578A1; CN110462151A; US11761640B2; US9493971B2; US9786455B2; EP3073199A1; ITTO20130255A1; EP2784312A1; WO2013001556A1; WO2016099886A1; WO2018109590A1; EP1703212A2; EP2933567A2

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

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1640493 A2 20060329; EP 1640493 A3 20071010; EP 1640493 B1 20110406; DE 602005027296 D1 20110519; IT TO20040636 A1 20041222; PL 1640493 T3 20110930

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