

Title (en)

A retaining device, particularly for a door of a household appliance

Title (de)

Haltevorrichtung, insbesondere für eine Tür eines elektrischen Haushaltsgerätes

Title (fr)

Dispositif de retenue, en particulier pour une porte d'un appareil électrique domestique

Publication

EP 1741378 B1 20130703 (EN)

Application

EP 06116787 A 20060707

Priority

IT TO20050473 A 20050708

Abstract (en)

[origin: EP1741378A1] The device (1, 4) comprises a support structure (2) secured to the door (D) and in which a hook member (3) is mounted to oscillate, and a door locking device (4) secured in the domestic electrical appliance (A) facing an opening (5) provided in this appliance (A). The hook member (3) is mounted in the support structure (2) such that it may move in translation between a retracted position and a forward position, and may oscillate about a moving axis (12a, 12b). When the door (D) is closed the hook member (3) engages with the retaining formation (6a) of the appliance (A), oscillates about the axis (12a, 12b) against the action of a recall spring (13), leaving the rest position but remaining in the retracted position, and thus enters and passes through the opening (5), and then oscillates towards the rest position and engages with the retaining formation (6a) under the action of the recall spring (13). When the door (D) is urged to open while a locking slider (7) of the door locking device (4) is in the rest position, the hook member (3), initially retained by the retaining formation (6a), moves from the retracted position to the forward position, as a result of the relative displacement of the support structure (2), and oscillates about the axis (12a, 12b) against the action of the recall spring (13), becoming disengaged from the retaining formation (6a) and thus passing through and leaving the opening (5) of the appliance (A).

IPC 8 full level

A47L 15/42 (2006.01); **D06F 37/42** (2006.01); **D06F 39/14** (2006.01)

CPC (source: EP US)

A47L 15/4259 (2013.01 - EP); **D06F 37/42** (2013.01 - EP US)

Cited by

EP1952749A1; EP2248938A1; US2012137595A1; EP2154287A1; CN105996948A; CN109972343A; CN103228856A; US2010115848A1; US8979141B2; WO2008086934A1; US8661859B2; US9926728B2

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DOCDB simple family (publication)

EP 1741378 A1 20070110; **EP 1741378 B1 20130703**; IT TO20050473 A1 20070109; PL 1741378 T3 20131129

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