

Title (en)

A device for locking and unlocking the door of an electric household appliance

Title (de)

Verriegelungs- und Entriegelungsvorrichtung für die Tür eines elektrischen Haushaltgeräts

Title (fr)

Dispositif de verrouillage et déverrouillage pour une porte d'un appareil électroménager

Publication

EP 1469147 A2 20041020 (EN)

Application

EP 04008956 A 20040415

Priority

IT TO20030304 A 20030417

Abstract (en)

The device comprises: a housing (2, 13) with an opening (3) into which a retaining member (A) connected to the door can be introduced along a predetermined axis, a slide (4) which is movable along the said axis and to which a hook member (5), pivotable about an axis (6) transverse the said axis, is articulated; a resilient member (8) is interposed between the slide (4) and the housing (2) and can adopt two stable configurations in which it arranges the slide (4) in a first operative position and in a second operative position, respectively, and in which guide profiles (7) which are fixed relative to the housing (2) and cooperate with the hook member (5) arrange the hook member in a rest position in which it allows the retaining member (A) to be introduced into the opening (3) and in a working position in which the hook member (5) can restrain the retaining member (A) which has been introduced into the opening (3), respectively. The arrangement is such that, when the retaining member (A) of the door is introduced into the opening (3), it can bring about a movement of the slide (4) from the first position towards the second position by a distance sufficient to bring about a snap-switching of the resilient member (8) from the first configuration to the second and the consequent movement of the slide (4) to the second operative position. The device (1) further comprises a locking member (14) movable between a release position and an engagement position in which it can permit and prevent the movement of the slide (4) from the working position to the rest position, respectively.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

US11272826B2; ITTO20120087A1; CN102191894A; CN104894811A; EP1972714A1; ITTO20120469A1; EP2636957A1; EP2479364A1; ITRM20110026A1; CN103228856A; CN102168351A; EP2369048A3; US9926728B2; US8459705B2; WO2013181289A1; WO2013114252A1; US10119312B2; US12024809B2; WO2013109585A3; WO2024081985A1; JP2011174359A; EP2370737B1

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