

Title (en)

Retaining and locking device for a door of an electric household appliance, in particular an oven

Title (de)

Halte- und Schließvorrichtung für eine Tür eines elektrischen Haushaltsgeräts, insbesondere eines Backofens

Title (fr)

Dispositif de blocage et de retenue pour la porte d'un appareil électroménager, en particulier un four

Publication

EP 2846099 A1 20150311 (EN)

Application

EP 14183934 A 20140908

Priority

IT TO20130724 A 20130909

Abstract (en)

The device (1) comprises a support structure (2) adapted to be fixed at an opening with which a door is associated, a slider (7) mounted in the support structure (2) movably along a predetermined operational trajectory, from a rest position to a working position, against the action of return means (8), this slider (7) being adapted to be displaced by the door from the rest position to the working position when the door is being closed, to activate an electric sensor device (10), which indicates that the door has been closed. A lever (13) is mounted oscillatably in the support structure (2) about a fixed axis (14) and has a retaining arm (13a) for interaction with the door. The slider (7) has a control formation (15) adapted, when the slider passes from the rest position to the working position, to cause the lever (13) to pass from an inactive disengagement position to an active engagement position in which its retaining arm (13a) is capable of retaining the door in the closed position. Locking devices (5, 20, 21) can be activated to lock the slider (7) in the working position and, consequently, lock the lever (13) in the active engagement position.

IPC 8 full level

F24C 15/02 (2006.01); **D06F 37/42** (2006.01); **D06F 39/14** (2006.01); **E05B 47/06** (2006.01); **E05C 3/02** (2006.01)

CPC (source: EP)

E05B 15/101 (2013.01); **E05B 47/0603** (2013.01); **E05C 3/02** (2013.01); **F24C 15/022** (2013.01)

Citation (search report)

- [X] WO 2010041210 A1 20100415 - ITW IND COMPONENTS SRL [IT], et al
- [A] EP 2450510 A2 20120509 - ELTEK SPA [IT]
- [A] WO 2006123220 A1 20061123 - ITW IND COMPONENTS SRL [IT], et al
- [A] US 2005121919 A1 20050609 - SMOCK STEVE W [US], et al

Cited by

US2016138809A1; US9587837B2; WO2019010061A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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