

Title (en)
DOOR LOCKING DEVICE WITH INTEGRATED DOOR SENSING SWITCH

Title (de)
TÜRVERRIEGELUNGSVORRICHTUNG MIT INTEGRIERTEM TÜRSENSORSCHALTER

Title (fr)
DISPOSITIF DE VERROUILLAGE DE PORTE AVEC COMMUTATEUR DE DÉTECTION DE PORTE INTÉGRÉ

Publication
EP 2834829 B1 20160302 (EN)

Application
EP 13716922 A 20130402

Priority
• IT TO20120291 A 20120403
• US 2013034894 W 20130402

Abstract (en)
[origin: WO2013151964A1] Door locking device for a domestic appliance, comprising: a housing (12) carrying at least a first and a second fixed electric contact (N, L), - a retaining slider (14) having a locking hole (42) and movable with respect to the housing (12) between a rest position corresponding to the open position of the door and a locking position corresponding to the closed position of the door, - an electric actuator (26) electrically connected to the second electric contact (L) and movable between a de-energized position and an energized position, the electric actuator (26) including a locking pin (38) which, in the energized position of the electric actuator (26), engages the locking hole (42) of the retaining slider (14) when the retaining slider (14) is in said locking position, - a door sensing switch (58) electrically connected between the first electric contact (N) and the electric actuator (26), the door sensing switch (58) including a compression spring (62) having a first end electrically connected to the first contact (N) and a second end which selectively opens and closed electrical connection with an intermediate contact (56) electrically connected to said electric actuator (26), the second end of the compression spring (62) being housed in a seat (63) of a spring holder (60) movable between a disconnected circuit position and a connected circuit position, the spring holder (60) being elastically biased towards the connected circuit position and cooperating with a ramp portion (68) of the retaining slider (14) that pushes the spring holder (60) to the disconnected circuit position when the retaining slider (14) is in the rest position and allows the spring holder (60) to move to the connected circuit position when the retaining slider (14) is in the locking position.

IPC 8 full level
H01H 89/04 (2006.01); **E05B 47/00** (2006.01); **H01H 9/22** (2006.01); **H01H 37/10** (2006.01); **H01H 37/20** (2006.01); **H01H 61/04** (2006.01)

CPC (source: EP)
E05B 47/0009 (2013.01); **E05B 47/0603** (2013.01); **H01H 89/04** (2013.01); **E05B 2047/0068** (2013.01); **H01H 9/22** (2013.01); **H01H 37/10** (2013.01); **H01H 37/20** (2013.01); **H01H 61/04** (2013.01)

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

DOCDB simple family (publication)
WO 2013151964 A1 20131010; EP 2834829 A1 20150211; EP 2834829 B1 20160302; IT TO20120291 A1 20131004; PL 2834829 T3 20160831

DOCDB simple family (application)
US 2013034894 W 20130402; EP 13716922 A 20130402; IT TO20120291 A 20120403; PL 13716922 T 20130402