

Title (en)  
DOOR LOCKING DEVICE FOR HOUSEHOLD APPLIANCES

Title (de)  
TÜRVERRIEGELUNGSVORRICHTUNG FÜR HAUSHALTSVORRICHTUNGEN

Title (fr)  
DISPOSITIF DE VERROUILLAGE DE PORTE POUR APPAREILS MÉNAGERS

Publication  
**EP 2625329 A1 20130814 (EN)**

Application  
**EP 11781624 A 20111005**

Priority

- IT TO20100814 A 20101005
- IB 2011054391 W 20111005

Abstract (en)  
[origin: WO2012046198A1] The door locking device comprises a solenoid actuator (A) associated with a control circuit (1) including: a power source (2), a switch (3) interposed between the power source (2) and the actuator (A), and a heat-sensitive device (4) connected in series with the actuator (A) and adapted to increase its own resistance when its temperature exceeds a predetermined level, so as to limit the current flowing in the actuator (A). The heat-sensitive device (4) is such that in a first temperature range (C1), substantially equal to that of the ambient operating temperature, it has a high impedance which can limit the current flowing in the actuator (A) to a level below that required for its activation; in an adjacent second range (C2) of higher temperatures, it has a reduced impedance which allows sufficient current to flow in the actuator (A) to cause its activation; and in a third range (C3) of even higher temperatures, adjacent to the second range (C2), it has a high impedance which can limit the current flowing in the actuator (A).

IPC 8 full level  
**D06F 39/14** (2006.01); **D06F 37/42** (2006.01); **H01F 7/18** (2006.01); **D06F 34/10** (2020.01)

CPC (source: EP KR US)  
**D06F 37/42** (2013.01 - EP KR US); **D06F 39/14** (2013.01 - EP KR US); **H01F 7/1805** (2013.01 - EP KR); **D06F 34/10** (2020.02 - EP KR US)

Citation (search report)  
See references of WO 2012046198A1

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 2012046198 A1 20120412; WO 2012046198 A8 20120907**; CN 103228835 A 20130731; CN 103228835 B 20161012;  
EP 2625329 A1 20130814; EP 2625329 B1 20160420; IT 1402217 B1 20130828; IT TO20100814 A1 20120406; KR 101884488 B1 20180830;  
KR 20130143578 A 20131231

DOCDB simple family (application)  
**IB 2011054391 W 20111005**; CN 201180048541 A 20111005; EP 11781624 A 20111005; IT TO20100814 A 20101005;  
KR 20137011447 A 20111005