

Title (en)

DOOR LOCK FOR THE DOOR OF A HOUSEHOLD APPLIANCE

Title (de)

TÜRVERRIEGELUNG FÜR EINE TÜR EINES HAUSHALTSGERÄTS

Title (fr)

SERRURE DE PORTE POUR LA PORTE D'UN APPAREIL MENAGER

Publication

EP 1834027 B1 20090121 (DE)

Application

EP 05814595 A 20051130

Priority

- EP 2005012778 W 20051130
- DE 102004060607 A 20041216

Abstract (en)

[origin: DE102004060607B3] The door locking system for a household appliance (1) may lock the door in a partially-open position. It has a main bolt spring-loaded by a main spring. It has a detector determining the state of the door together with a locking mechanism. The detector and the lock may be electrically connected together in series, and there is a thermoelectric PTC actuator (24) which may move the bolt. The actuator has an electromagnet (26) and a moving armature (28). There is a door contact line (16) and first and second door contacts (48).

IPC 8 full level

D06F 39/14 (2006.01); **A47L 15/42** (2006.01); **D06F 34/20** (2020.01); **D06F 37/42** (2006.01); **H01H 9/22** (2006.01)

CPC (source: EP KR US)

A47L 15/4259 (2013.01 - EP KR US); **D06F 34/20** (2020.02 - EP KR US); **D06F 37/42** (2013.01 - EP KR US); **D06F 39/14** (2013.01 - EP KR US); **F24C 15/022** (2013.01 - EP); **H01H 9/226** (2013.01 - EP KR US); **A47L 2501/22** (2013.01 - EP KR US); **D06F 2103/40** (2020.02 - EP KR US); **Y10S 292/69** (2013.01 - EP KR US); **Y10T 292/1021** (2015.04 - EP US); **Y10T 292/1092** (2015.04 - EP US); **Y10T 292/699** (2015.04 - EP US)

Cited by

WO2015155055A1; WO2015114597A1; WO2015121772A1

Designated contracting state (EPC)

IT PL TR

DOCDB simple family (publication)

DE 102004060607 B3 20060323; CN 101080528 A 20071128; CN 101080528 B 20110504; EP 1834027 A1 20070919; EP 1834027 B1 20090121; KR 100923146 B1 20091023; KR 20070089237 A 20070830; PL 1834027 T3 20090529; US 2008106105 A1 20080508; US 8991877 B2 20150331; WO 2006063684 A1 20060622

DOCDB simple family (application)

DE 102004060607 A 20041216; CN 200580043156 A 20051130; EP 05814595 A 20051130; EP 2005012778 W 20051130; KR 20077016357 A 20051130; PL 05814595 T 20051130; US 79309805 A 20051130