

Title (en)

A door-lock system for a household electrical appliance

Title (de)

Türverriegelungseinrichtung für ein elektrisches Haushaltsgerät

Title (fr)

Système de verrou de porte pour appareil électrique domestique

Publication

EP 1988207 A3 20110608 (EN)

Application

EP 08155354 A 20080429

Priority

IT TO20070295 A 20070503

Abstract (en)

[origin: EP1988207A2] The system comprises a first and a second electrical terminal (1, 2); a normally-open switch (10), arranged between the electrical terminals (1, 2) and intended to control the supply of current to consumer devices of the household electrical appliance which are connected to the second terminal (2), and including a movable contact (13) controlled by means of a bimetallic component (14); a movable lock part (9) operatively coupled to the switch (10) and able, when the switch (10) is opened and closed, to take up a rest position and a work position, respectively, in which it enables and prevents, respectively, the opening of the door; a third electrical terminal (3) intended to receive a supply voltage (V 1-3); a PCT resistive heating element (50) arranged between the first terminal (1) and the third terminal (3), in thermal exchange contact with the bimetallic component (14) associated with the switch (10); and an electric actuator device (25) set up to control, according to pre-established methods, the position of the movable lock part (9) and of the switch (10). An electronic control circuit (30) is connected at its input to the first and third terminals (1, 3), and at its output to the actuator device (25), and is set up to drive the actuator device (25) according to predetermined characteristics of a supply and control voltage (V 1-3) applied across the first and third terminals (1, 3).

IPC 8 full level

D06F 37/42 (2006.01)

CPC (source: EP US)

D06F 37/42 (2013.01 - EP US)

Citation (search report)

- [AD] US 6334637 B1 20020101 - CHIOFFI MARIO [IT]
- [A] EP 1467048 A1 20041013 - BITRON SPA [IT]
- [A] EP 0965677 A1 19991222 - BITRON SPA [IT]
- [A] US 2004140677 A1 20040722 - HENGELIN GUNTER [DE], et al

Cited by

CN109884418A; ITTO20080905A1; EP2384376A4; ITTO20100814A1; CN103228835A; US8952577B2; WO2021110408A1; WO2012046198A1; WO2020049603A1; WO2020049602A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 1988207 A2 20081105; EP 1988207 A3 20110608; IT TO20070295 A1 20081104

DOCDB simple family (application)

EP 08155354 A 20080429; IT TO20070295 A 20070503