

Title (en)
Control switch for a domestic cooking appliance

Title (de)
Befehlsschalter für ein Haushaltskochgerät

Title (fr)
Commutateur de commande pour appareil de cuisson domestique

Publication
EP 0600780 B1 19970115 (FR)

Application
EP 93402883 A 19931129

Priority
FR 9214672 A 19921204

Abstract (en)
[origin: EP0600780A1] Switch for an element heating through a non-pierced glass plate of a domestic cooking appliance (1), in order to change over at least one relay (16) closing or opening an electrical circuit (19) by means of a small permanent magnet (11). This relay is a magnetic relay mounted in a fixed chassis (17) immobilised against the face (18) of the glass plate (7) situated towards the inside of the appliance, and the switch (8) includes an operating knob (9) being applied against the opposite face (15) of the plate turned outwards and accessible to the user of the appliance. The switch is characterised in that this knob is able to be driven freely in rotation with respect to the plate around a stud (10), the location of which on the face of the plate is defined so as to arrange the knob in proximity to the relay mounted against the other face, and includes, the permanent magnet (11), offset radially in a plane passing through the stud. In this way, consequent on the rotation of the knob on the stud, the magnet is brought in line with the relay, causing the latter to close, or is moved away with respect to this relay, the latter then automatically returning to the open state, the stud (10) locating the operating knob (9) around which the rotation of this knob takes place, interacting with an open indentation (12) formed in a hollow at the centre of the latter in its surface (13) which is applied against the plate (7).

IPC 1-7
H01H 36/00; **F24C 7/08**

IPC 8 full level
F24C 7/08 (2006.01); **H01H 36/00** (2006.01); **H01H 19/11** (2006.01); **H01H 19/14** (2006.01)

CPC (source: EP)
F24C 7/082 (2013.01); **H01H 36/006** (2013.01); **H01H 36/0066** (2013.01); **H01H 19/11** (2013.01); **H01H 19/14** (2013.01)

Cited by
US5920131A; EP1647774A3; EP0844325A3; CN110320830A; EP2458287A1; EP0959646A3; EP1039497A1; FR2791174A1; DE4432399A1; DE4432399C2; EP0797227A3; EP3360458A1; IT201700014858A1; DE10212954A1; EP1220570A3; EP3562265A1; US8134431B2; US7016744B2; WO2004070903A1; WO2004019359A1; US8662071B2; US9007184B2; US7439835B2; US6838785B2; WO2007104480A3; WO2016173660A1

Designated contracting state (EPC)
BE DE DK ES FR GB IE IT LU NL SE

DOCDB simple family (publication)
EP 0600780 A1 19940608; **EP 0600780 B1 19970115**; DE 69307480 D1 19970227; DE 69307480 T2 19970522; DK 0600780 T3 19970512; ES 2096252 T3 19970301; FR 2699002 A1 19940610; FR 2699002 B1 19950324

DOCDB simple family (application)
EP 93402883 A 19931129; DE 69307480 T 19931129; DK 93402883 T 19931129; ES 93402883 T 19931129; FR 9214672 A 19921204