

Title (en)

Switch with a temperature sensitive switching mechanism

Title (de)

Schalter mit einem temperatur-abhängigen Schaltwerk

Title (fr)

Interrupteur avec un mécanisme de commutation sensible à la température

Publication

EP 0887827 A3 19990616 (DE)

Application

EP 98104101 A 19980307

Priority

DE 19727383 A 19970627

Abstract (en)

[origin: EP0887827A2] The switch (10) has a temperature-dependent switch mechanism (12) contained within a housing (11) provided by a base (14) with a counter-contact (16) on its inside surface and a cooperating cover (17). The cover has a second counter-contact (19) on the inside (18). The switch mechanism employs a conductive spring disc (31) carrying a movable contact (32) and a bimetallic snap-action disc (34), fitted around the outside of the movable contact. The spring disc acts against one counter-contact at its edge (33) and presses the movable contact against the other counter-contact below the response temperature of the bimetallic snap-action disc. The counter-contact against which the edge of the spring disc acts is magnetic.

IPC 1-7

H01H 37/54

IPC 8 full level

H01H 37/54 (2006.01); **H01H 37/66** (2006.01); **H01H 1/54** (2006.01)

CPC (source: EP US)

H01H 37/5427 (2013.01 - EP US); **H01H 1/54** (2013.01 - EP US); **H01H 2001/545** (2013.01 - EP US)

Citation (search report)

- [A] US 4689599 A 19870825 - CALENDIA CIRO [IT], et al
- [A] US 3014104 A 19611219 - COBINE JAMES D, et al
- [A] GB 1356575 A 19740612 - DREAMLAND ELECTRICAL APPLIANCE
- [DA] DE 3710672 A1 19881013 - HOFSAASS P [DE]
- [DA] DE 2121802 A1 19730125 - THERMIK GERAETEBAU GMBH

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0887827 A2 19981230; **EP 0887827 A3 19990616**; **EP 0887827 B1 20050518**; AT E295994 T1 20050615; DE 19727383 A1 19990204; DE 19727383 C2 19990729; DE 59812803 D1 20050623; ES 2242244 T3 20051101; PT 887827 E 20050729; US 6054916 A 20000425

DOCDB simple family (application)

EP 98104101 A 19980307; AT 98104101 T 19980307; DE 19727383 A 19970627; DE 59812803 T 19980307; ES 98104101 T 19980307; PT 98104101 T 19980307; US 10496698 A 19980625