

Title (en)  
OVERLOAD SNAP CIRCUIT-BREAKING SWITCH FOR DOMESTIC APPARATUSES

Publication  
**EP 0275517 A3 19900103 (DE)**

Application  
**EP 87118881 A 19871219**

Priority  
DE 3701275 A 19870117

Abstract (en)  
[origin: US4821009A] The invention is directed to an overcurrent-protective switch for household appliances such as a vacuum cleaner. The snap switch has a housing in which a contact mounting unit is mounted at one end of the housing and contains one of two current terminals of the switch. The other current terminal is mounted at the other end of the housing and is configured to define a contact-engaging surface. A resilient interrupting contact member is fixedly connected to the one current terminal and has a metal center strip by means of which it is held in one of two end positions. In the first end position, the contact member is held in contact engagement with the contact-engaging surface of the other current contact terminal and, in the second end position, it is disengaged from the contact-engaging surface. When the center resistance strip is cool, the contact member is in its first position and the current circuit between the two current terminals is closed. On the other hand, when excessive current passes through the center strip, the latter heats and expands causing the contact member to snap over into the second position to interrupt the current circuit between the two current terminals. A reset plunger returns the contact member to its first position.

IPC 1-7  
**H01H 77/04**

IPC 8 full level  
**H01H 37/32** (2006.01); **H01H 77/04** (2006.01)

CPC (source: EP US)  
**H01H 77/04** (2013.01 - EP US)

Citation (search report)  
• [AD] GB 1116688 A 19680612 - NIKKO DENKI SEISAKUSHO LTD  
• [A] DE 1275188 B 19680814 - TUNG SOL IND INC  
• [A] GB 2125626 A 19840307 - TAYLOR TERENCE HENRY  
• [A] GB 2073493 A 19811014 - BK PATENT DEV  
• [A] FR 2531266 A1 19840203 - HUTOGEPGYAR [HU]

Cited by  
US5451729A; WO9520234A1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0275517 A2 19880727; EP 0275517 A3 19900103; EP 0275517 B1 19921209**; AT E83337 T1 19921215; DE 3701275 A1 19880728; DE 3701275 C2 19900531; DE 3783025 D1 19930121; ES 2037066 T3 19930616; JP S63190223 A 19880805; US 4821009 A 19890411

DOCDB simple family (application)  
**EP 87118881 A 19871219**; AT 87118881 T 19871219; DE 3701275 A 19870117; DE 3783025 T 19871219; ES 87118881 T 19871219; JP 328688 A 19880112; US 14526988 A 19880119