

Title (en)
Safety switch.

Title (de)
Sicherheitsschalter.

Title (fr)
Interrupteur de sûreté.

Publication
EP 0181006 A2 19860514 (EN)

Application
EP 85114263 A 19851108

Priority
• US 67055484 A 19841109
• US 71893185 A 19850402
• US 71968485 A 19850404

Abstract (en)
A switch (10) for providing a safety function when its main contacts are fused or stuck together in the "ON" position, comprising a housing (16) containing a pair of main contacts (42, 54), one being designated an ON contact, and the other main contact being carried by a movable switch arm (50) in the housing (16). This switch arm (50) has a first end which carries the movable main contact (54) and a second end, and spring means (56) mechanically coupled to the movable switch arm (50) normally bias the movable main contact (54) toward open position away from engagement with the ON contact. Switch operating means including movable actuator means (78) overcome the biasing force of the spring means (56) for moving the movable main contact (54) to closed position into engagement with the ON main contact. There are auxiliary safety contact means (60) within the switch housing for completing a safety circuit and/or for deenergizing the main circuit in response to abnormal movement of the movable switch arm (50) when the actuator means (78) is moved to OFF position, but the movable main contact (54) remains fused or stuck to the ON main contact.

IPC 1-7
H01H 3/00; **H01H 9/16**

IPC 8 full level
H01H 3/00 (2006.01); **H01H 9/16** (2006.01)

CPC (source: EP)
H01H 3/001 (2013.01); **H01H 9/167** (2013.01)

Cited by
EP0632473A1; EP0788209A1; GB2275574A; GB2275574B; EP2182253A1; CN102203468A; RU2509940C2; WO9305525A1; WO2010062694A1

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

DOCDB simple family (publication)
EP 0181006 A2 19860514; **EP 0181006 A3 19871014**; **EP 0181006 B1 19910925**; AU 4919385 A 19860626; AU 587208 B2 19890810; CA 1272235 A 19900731; DE 181006 T1 19870115; DE 3584229 D1 19911031

DOCDB simple family (application)
EP 85114263 A 19851108; AU 4919385 A 19851030; CA 495087 A 19851112; DE 3584229 T 19851108; DE 85114263 T 19851108