

Title (en)
Electrical switch with rotating arc.

Title (de)
Elektrischer Schalter mit rotierendem Lichtbogen.

Title (fr)
Interrupteur électrique à arc tournant.

Publication
EP 0401131 A1 19901205 (FR)

Application
EP 90420243 A 19900518

Priority
FR 8907290 A 19890531

Abstract (en)
An electric medium-voltage switch comprises contacts (16, 22) actuated by a connecting-rod/crank system (54, 58). An arc circuit comprising a cylindrical electrode (26) arranged inside a coil (24) and whose inside surface cooperates with a moving arc contact (34) is arranged parallel to the main contacts (16, 22). The mechanical link connecting the main contact (22) to the arc contact (34) comprises a crank (48)/connecting rod (42) system comprising an elastic element consisting of a slot (46) and a spring (50) making it possible to provide the contact pressure for the arc contacts. In the open position of the switch the connecting-rod (42) extends perpendicular to the crank (48), and the elastic element is neutralised in such a way as to maintain the moving arc contact (34) without play in the open position despite the electrodynamic forces acting on it. <IMAGE>

IPC 1-7
H01H 33/18

IPC 8 full level
H01H 33/18 (2006.01)

CPC (source: EP US)
H01H 33/187 (2013.01 - EP US)

Citation (search report)
• [Y] GB 2103018 A 19830209 - INT STANDARD ELECTRIC CORP [US], et al
• [Y] EP 0092205 A2 19831026 - HITACHI LTD [JP]
• [A] US 3763340 A 19731002 - NOACK D
• [A] FR 2493034 A1 19820430 - MERLIN GERIN [FR]
• [A] EP 0053524 A1 19820609 - MERLIN GERIN [FR]

Cited by
EP0676782A3

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

DOCDB simple family (publication)
EP 0401131 A1 19901205; AU 5608990 A 19901206; AU 619159 B2 19920116; BR 9002557 A 19910813; CA 2016980 A1 19901130; CN 1022271 C 19930929; CN 1047756 A 19901212; FR 2647948 A1 19901207; FR 2647948 B1 19940304; JP H0329227 A 19910207; US 5003138 A 19910326; ZA 903982 B 19910327

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