

Title (en)

Vacuum tube, especially for circuit breaker or h.t. electrical switch, and switch incorporating such a tube

Title (de)

Vakuum Röhre, insbesondere für Lastschalter oder elektrischer Mittelspannungsschalter und Schalter mit einer solchen Röhre

Title (fr)

Ampoule sous vide, notamment pour disjoncteur ou interrupteur électrique moyenne tension et interrupteur intégrant une telle ampoule

Publication

EP 0689217 A1 19951227 (FR)

Application

EP 95410054 A 19950607

Priority

FR 9407615 A 19940620

Abstract (en)

The circuit breaker includes an evacuated ampoule consisting of a main envelope (40) closed by two end plates (42,44) within which three contacts (46,47,48) are lodged to extend axially. Two of these contacts (46,47) include a disc shaped contact region and are solidly attached to the two end plates respectively. The third contact consists of a rod (48) mounted to slide within the second fixed contact (47). The rod is held in contact with the first fixed contact (46) for a sufficiently long time to generate an electric arc between the two contacts (46,47), in order than to break the circuit between the two fixed contacts. The ampoule is mounted within a container (12) filled with sulphur hexafluoride with main contacts and a control mechanism. <IMAGE>

IPC 1-7

H01H 33/66; **H01H 33/12**

IPC 8 full level

H01H 33/66 (2006.01); **H01H 33/12** (2006.01); **H01H 33/664** (2006.01)

CPC (source: EP US)

H01H 33/125 (2013.01 - EP US); **H01H 33/6646** (2013.01 - EP US); **H01H 33/6641** (2013.01 - EP US); **H01H 33/6661** (2013.01 - EP US)

Citation (applicant)

FR 2655766 A1 19910614 - MERLIN GERIN [FR]

Citation (search report)

- [Y] US 4171474 A 19791016 - HOLMES FRANCIS A [US]
- [Y] DE 1226693 B 19661013 - GEN ELECTRIC
- [A] DE 1806880 A1 19690911 - GEN ELECTRIC
- [DA] EP 0433184 A1 19910619 - MERLIN GERIN [FR]

Cited by

CN111816500A

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

EP 0689217 A1 19951227; **EP 0689217 B1 20011107**; DE 69523669 D1 20011213; DE 69523669 T2 20020801; FR 2721434 A1 19951222; FR 2721434 B1 19960802; JP H0845397 A 19960216; US 5591948 A 19970107

DOCDB simple family (application)

EP 95410054 A 19950607; DE 69523669 T 19950607; FR 9407615 A 19940620; JP 14647995 A 19950613; US 46673595 A 19950606