

Title (en)

SELF-BLAST SWITCH WITH PERMANENT MAGNET

Publication

EP 0078719 B1 19850828 (FR)

Application

EP 82401779 A 19820929

Priority

FR 8120201 A 19811026

Abstract (en)

[origin: EP0078719A1] 1. Self-blast switch with rotating arc comprising : - a tight enclosure (10) filled with a gas of high dielectric strength, - a divisional chamber (30) inside said enclosure, - a pair of contacts located in said divisional chamber (30) and having ring-shaped contact electrodes (12, 14) constituting rotation tracks of said arc, - a housing, located inside one of the contacts, in which is disposed a ring-shaped permanent magnet (10) the front side of which is covered by the associated one (12) of the ring-shaped electrodes so that the magnet (10) generates a magnetic blast rotation of the arc fastened on the said associated ring-shaped electrode (12), - a gas exhaust conduct (44) of said divisional chamber (30) extending through the central opening (18) of the ring-shaped magnet (10) and of the associated ring-shaped electrode (12), characterized by the fact that said magnet (10) is polarized axially in order to produce in the area adjacent to the associated ring-shaped electrode (12) on the one hand a radial magnetic field directed in the central part in one direction (56) and in the external part in the opposite direction (54), and on the other hand an axial magnetic field at the return (52) which separate the central and external parts, and that the ring-shaped electrode (14) opposite to said associated electrode (12) is so arranged that the arc extends between said ring-shaped electrodes (12, 14) in said central part (56) of the magnetic field, said switch comprising means (46, 58) in order to transmit to said external front face said return points (52, 64) and to avoid any movement of the arc towards said return points (52, 64).

IPC 1-7

H01H 33/18

IPC 8 full level

H01H 33/18 (2006.01); **H01H 33/985** (2006.01)

CPC (source: EP)

H01H 33/182 (2013.01)

Cited by

FR2824182A1; EP0483121A3; EP0298809A1; FR2617633A1; US4900882A; US2012280772A1; US8902026B2

Designated contracting state (EPC)

BE CH DE GB IT LI NL SE

DOCDB simple family (publication)

EP 0078719 A1 19830511; **EP 0078719 B1 19850828**; DE 3265864 D1 19851003; FR 2515418 A1 19830429; FR 2515418 B1 19831202; JP H0311494 B2 19910218; JP S5882425 A 19830518; YU 238682 A 19841231; YU 44170 B 19900228

DOCDB simple family (application)

EP 82401779 A 19820929; DE 3265864 T 19820929; FR 8120201 A 19811026; JP 18809182 A 19821025; YU 238682 A 19821022