Title (en)

INTERRUPTER WITH ROTATING ARC IN AN INSULATING GAS

Publication

EP 0064425 B1 19851218 (FR)

Application

EP 82400548 A 19820326

Priority

JP 5766081 U 19810420

Abstract (en)

[origin: EP0064425A2] 1. Interrupter with rotating arc and thermal blast gas expansion comprising : - a gas-tight enclosure (12) containing an insulating gas of high dielectric rigidity such as sulfur hexafluoride, - a pair of separable contacts (22, 23) aligned in the axial direction of the enclosure (12), one of said contacts (24) being hollow to form an escape pipe (28) between the arcing zone and the inner volume of the enclosure (12), - an electromagnetic coil (34) for generating a magnetic field in the arcing zone, - and a conducting electrode (36) shaped as an annular running track of the rotating arc under the action of said field, characterized in that the interrupter further comprises a transversal wall (16) to subdivide the inner of the enclosure (12) in two adjacent chambers, an arc extinguishing chamber (18) containing the arcing zone, and an expansion chamber (20) communicating with the extinguishing chamber (18) by said pipe (28) when the contacts (22, 24) separate, and that the gas flow in the extinguishing chamber (18) is guided by a fixed deflector (38) in an insulating material and having a side face around the arcing zone, and by a repartition device (40) of the ionized gas flow, guided by the deflector (38), said device (40) comprising a partition wall (44) disposed coaxially in the annular space between the enclosure (12) and the movable contact (24), and respectively separated from the deflector (38) and from the transversal wall (16) by upper (46) and lower (48) passages, so as to force a gas flow loop path.

IPC 1-7

H01H 33/98; H01H 33/18

IPC 8 full level

H01H 33/18 (2006.01); **H01H 33/98** (2006.01); **H01H 33/985** (2006.01)

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