

Title (en)

MODULAR CIRCUIT INTERRUPTER WITH MAGNETIC BLOW-OUT FIELD AND WITH GAS COOLING

Publication

EP 0079293 A3 19850619 (FR)

Application

EP 82420103 A 19820719

Priority

US 32014081 A 19811110

Abstract (en)

[origin: US4401870A] A gas-cooled magnetic blast circuit breaker made up of a plurality of identical modules. Each module is a flat body made of electrically non-conductive air-permeable material and is formed with an upper and a lower arc breaking chamber, the chambers being separated from one another by a central wall of the body. An electrically conductive stationary contact member is provided in each chamber, each member extending through the body for connection to the power line on opposite faces of the body. There is also provided an electrically conductive dual contact member which is pivotally mounted across the central wall of the body, this dual member having a contact gate at each end, each gate being located in one of the chambers to cooperate with the stationary contact member in that chamber. A pivotable shaft, made of electrically non-conductive material, extends transversely through the body and is connected to the dual contact member to pivot it whereby to move the contact gates simultaneously into and out of electrical junction with the stationary contact members so as to make and break current in the power line. There is provided a coil which is energizable by the current in the power line and which is adapted to create a magnetic field suitable to blow, into the arc chambers, arcs that are formed when the contact gates are moved away from the stationary contact members. The chambers are formed so as to be provided with guideways extending from outside the body to the contact members so that air may be sucked into the chamber by the blown arcs so as to cool the contact members.

IPC 1-7

H01H 9/44; **H01H 9/34**

IPC 8 full level

H01H 33/18 (2006.01); **H01H 9/34** (2006.01); **H01H 9/44** (2006.01)

CPC (source: EP US)

H01H 9/34 (2013.01 - EP US)

Citation (search report)

- [A] FR 1109180 A 19560123 - JEUMONT FORGES CONST ELEC
- [A] DE 533477 C 19310915 - VOIGT & HAEFFNER AG
- [A] CH 470093 A 19690315 - GEN ELECTRIC [US]
- [A] FR 2037534 A5 19701231 - GEN ELECTRIC
- [A] US 3611045 A 19711005 - SAKSHAUG EUGENE C

Cited by

CN111584321A

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0079293 A2 19830518; **EP 0079293 A3 19850619**; **EP 0079293 B1 19880203**; AT E32396 T1 19880215; CA 1140625 A 19830201; DE 3278093 D1 19880310; JP H0147848 B2 19891017; JP S5885232 A 19830521; US 4401870 A 19830830

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EP 82420103 A 19820719; AT 82420103 T 19820719; CA 389909 A 19811112; DE 3278093 T 19820719; JP 18762682 A 19821027; US 32014081 A 19811110