

Title (en)

Electrical circuit breaker with rotating arc and self blast mechanism.

Title (de)

Elektrischer Lastschalter mit rotierendem Lichtbogen und Selbstbebläsung.

Title (fr)

Disjoncteur électrique à arc tournant et à autoexpansion.

Publication

EP 0470014 B1 19941228 (FR)

Application

EP 91420245 A 19910712

Priority

FR 9009938 A 19900801

Abstract (en)

[origin: EP0470014A1] The arc chamber (13) of one pole of an electric circuit-breaker with rotating arc and self-blast mechanism, comprises an elongate envelope (12) closed off at its two ends by endplates (17,18). Tubular contacts (14,15) and a magnetic quenching coil (22) are arranged coaxially inside the envelope (12). Level with the arc zone defined by the zone of separation of the contacts (14,15) is arranged a collar (31) close to the envelope (12) but leaving an annular gap (32) which makes the upper portion (28) of the chamber (13) communicate with the lower portion (29) of this chamber, which is arranged on either side of the arc zone. The gap (32) enables gases to circulate between these two portions (28,29) and vanes (30) arranged in this lower portion (29) slow the rotation of the gases in order to direct them towards the arc zone. <IMAGE>

IPC 1-7

H01H 33/98; **H01H 33/70**

IPC 8 full level

H01H 33/74 (2006.01); **H01H 33/70** (2006.01); **H01H 33/91** (2006.01); **H01H 33/915** (2006.01); **H01H 33/98** (2006.01); **H01H 33/985** (2006.01)

CPC (source: EP KR US)

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Cited by

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BE CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

EP 0470014 A1 19920205; **EP 0470014 B1 19941228**; AU 642758 B2 19931028; AU 8146591 A 19920206; BR 9103250 A 19920526; CA 2047476 A1 19920202; CA 2047476 C 20000912; CN 1027841 C 19950308; CN 1058671 A 19920212; DE 69106266 D1 19950209; DE 69106266 T2 19950629; FR 2665571 A1 19920207; FR 2665571 B1 19921016; JP 3083597 B2 20000904; JP H04253129 A 19920908; KR 100204546 B1 19990615; KR 920005203 A 19920328; MX 9100444 A 19920401; RU 2037902 C1 19950619; US 5347097 A 19940913; ZA 916014 B 19920429

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