

Title (en)

Rotating arc switch.

Title (de)

Schalter mit rotierendem Lichtbogen.

Title (fr)

Interrupteur à arc tournant.

Publication

EP 0012048 A1 19800611 (FR)

Application

EP 79400820 A 19791105

Priority

FR 7832206 A 19781110

Abstract (en)

[origin: US4329551A] An alternating current interrupter is contained in a sealed elongated housing filled with dielectric gas, such as SF₆. The interrupter comprises a pair of separable stationary and movable contacts and a magnetic blow-out arc extinguishing device including an annular coil disposed coaxially with a first ring-shaped electrode which surrounds the stationary contact. The coil produces a radial magnetic field in the arcing zone causing the arc to rotate rapidly along the first electrode which is secured to the inner edge of the coil's front face in order to reduce the electrodynamic repulsion forces between said coil and electrode. A metallic shield is disposed between the arcing zone and the outer portion of the front face which is not covered by the first electrode.

Abstract (fr)

L'invention concerne un interrupteur à arc tournant. Au contact fixe (12) de l'interrupteur est associé un ensemble de soufflage magnétique, constitué par une carcasse (18) de support d'une électrode annulaire massive (32) accolée à une bobine de soufflage (22) logée dans un évidement annulaire (20) ménagé dans la carcasse. L'interrupteur est du type à enveloppe (10) isolante remplie d'hexafluorure de soufre. Se référer à la figure unique.

IPC 1-7

H01H 33/18

IPC 8 full level

H01H 33/18 (2006.01)

CPC (source: EP US)

H01H 33/18 (2013.01 - EP US)

Citation (search report)

- FR 1171319 A 19590123 - C K D MODRANY
- FR 2368792 A1 19780519 - CEM COMP ELECTRO MEC [FR]
- GB 1086546 A 19671011 - GEN ELECTRIC
- DE 2723552 A1 19781102 - BBC BROWN BOVERI & CIE
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- US 4052576 A 19771004 - SMITH ROBERT KIRKLAND
- DE 2511238 A1 19750925 - FUJI ELECTRIC CO LTD
- CH 612293 A5 19790713 - BBC BROWN BOVERI & CIE [CH]
- FR 2285700 A1 19760416 - ALSTHOM CGEE [FR]
- FR 2389219 A1 19781124 - BBC BROWN BOVERI & CIE [CH]

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Designated contracting state (EPC)

BE CH DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0012048 A1 19800611; EP 0012048 B1 19821124; DE 2964113 D1 19821230; FR 2441261 A1 19800606; FR 2441261 B1 19810821; SG 61185 G 19861121; US 4329551 A 19820511; YU 269179 A 19820630; YU 41190 B 19861231

DOCDB simple family (application)

EP 79400820 A 19791105; DE 2964113 T 19791105; FR 7832206 A 19781110; SG 61185 A 19850820; US 9136579 A 19791105; YU 269179 A 19791105