

Title (en)

Arc chamber for a medium- or high-voltage circuit breaker with reduced operating energy

Title (de)

Unterbrechungskammer eines Schutzschalters für Hoch- und Mittelspannung mit reduzierter Bedienungsenergie

Title (fr)

Chambre de coupure pour disjoncteur à moyenne ou haute tension à énergie de manoeuvre réduite

Publication

EP 2402969 A1 20120104 (FR)

Application

EP 11172006 A 20110629

Priority

FR 1055323 A 20100701

Abstract (en)

The device has a pair of movable arc contacts (5, 6), and a compression chamber whose volume (V1) varies and opens in a blowing chamber under action of a blowing-piston (60). One of the arc contacts is indirectly linked to an operating rod by mechanical transmission units for obtaining a value of ratio of displacement speed of the movable arc contact and the operating rod greater than 1. The blowing chamber is integrated to the movable arc contact and a permanent arc contact (3), and a contact carrier tube (8) provides current to the permanent arc contact while movable arc contact is fixed.

Abstract (fr)

L'invention concerne une nouvelle chambre de coupure (1) à énergie de manoeuvre réduite. Selon l'invention, au moins un contact d'arc mobile (3, 5) est lié indirectement à la tige de manoeuvre (4) par des moyens mécaniques de transmission adaptés pour augmenter le rapport de vitesses en translation entre ledit contact mobile et la tige de manoeuvre et le piston de soufflage (60) est solidaire d'un contact d'arc (6) mobile et d'un contact d'arc permanent (3), le tube porte-contact (8) d'amenée du courant au contact permanent (3) mobile étant fixe.

IPC 8 full level

H01H 33/90 (2006.01)

CPC (source: EP)

H01H 33/90 (2013.01); **H01H 2033/028** (2013.01); **H01H 2033/907** (2013.01); **H01H 2033/908** (2013.01)

Citation (applicant)

- EP 0907195 A1 19990407 - GEC ALSTHOM T & D SA [FR]
- EP 1879207 A1 20080116 - ABB TECHNOLOGY AG [CH]
- US 6229109 B1 20010508 - KRETZ HARALD [CH], et al
- EP 0483840 A2 19920506 - ASEA BROWN BOVERI [SE]

Citation (search report)

- [A] EP 0483840 A2 19920506 - ASEA BROWN BOVERI [SE]
- [A] US 2007181536 A1 20070809 - HUNGER OLAF [CH], et al
- [A] JP 2003109480 A 20030411 - TOSHIBA CORP
- [A] JP 2003109479 A 20030411 - TOSHIBA CORP
- [A] JP H10269913 A 19981009 - TOSHIBA CORP

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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