

Title (en)

Autopneumatic circuit breaker with pneumatically locked semi-mobile piston

Title (de)

Selbstbeblasener Leistungsschalter mit pneumatisch festlegbarem halbbeweglichem Kolben

Title (fr)

Disjoncteur à auto-soufflage à piston semi-mobile verrouillé pneumatiquement

Publication

EP 0667633 B1 19991006 (FR)

Application

EP 95400111 A 19950119

Priority

FR 9400762 A 19940125

Abstract (en)

[origin: EP0667633A1] The circuit breaker is housed in a porcelain container (1) and filled with dielectric gas. The static arc contact (3A) contacts an arc contact (7A) on a moving tube. An arc suppression protrusion (10) is fixed to the top of the tube and forms a first extinction chamber (17) with the contact plate (9). A one-way valve (9A) in the contact plate wall leads to a second extinction chamber (18). A piston (12) slides in the chamber, forming the back wall (11) of the chamber and has a valve (11A). There is a restraining spring (15) at the back of the piston. During the first opening period, the piston remains fixed in position by the spring, removing gas from the second extinction chamber. Once the piston reaches the first end wall, it moves back with the contact breaker, forming a two stage mechanism.

IPC 1-7

H01H 33/91

IPC 8 full level

H01H 33/90 (2006.01); **H01H 33/915** (2006.01)

CPC (source: EP US)

H01H 33/905 (2013.01 - EP US)

Cited by

FR2753564A1; CN109416997A; EP0897185A1; FR2767221A1; US6018133A; FR2761520A1; US10714274B2

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