Title (en)

PRESSURISED-GAS SWITCH

Publication

EP 0126929 B2 19930623 (DE)

Application

EP 84104058 A 19840411

Priority

CH 296883 A 19830531

Abstract (en)

[origin: US4556767A] A gas-blast breaker with two contact members which are movable relative to one another. Each contact member is provided with a respective sparking contact. The contacts communicate with a cylindrical compression chamber whose volume varies as a function of the movement of the contact members and which is filled pressurized gas. A channel leading into a quenching zone between the sparking contacts extends into a first one of the two end faces of the compression chamber. A second one of the two end faces is bounded by a piston which is displaceable along the cylinder axis of the compression chamber and which is subjected to the action of a tensioned spring. The circuit breaker is suited for reliably interrupting both small and large currents, with a comparatively weak and simple drive mechanism for the movable contact member. The piston interacts with a fixed stop which is arranged such that the movement of the piston which is subjected to the action of the tensioned spring is blocked, below a predetermined first gas pressure in the compression chamber, against the movement of one of the contact members which is moved upon the occurrence of a breaking operation in the circuit breaker.

IPC 1-7

H01H 33/915

IPC 8 full level

H01H 33/91 (2006.01); **H01H 33/90** (2006.01); **H01H 33/915** (2006.01)

CPC (source: EP US)

H01H 33/901 (2013.01 - EP US); H01H 33/905 (2013.01 - EP US)

Cited by

EP2822017A1; FR2761520A1; CH679095A5; EP0807946A1; FR2748598A1; FR2715499A1; EP0667633A1; US5567923A; CN1071483C; US9147539B2

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