

Title (en)

Circuit breaker having and outlet channel for the compression chamber

Title (de)

Lastschalter mit Ausgangskanal für die Druckkammer

Title (fr)

Disjoncteur incluant un canal de vidange de la chambre de compression par piston

Publication

EP 1235243 B1 20100428 (FR)

Application

EP 02290175 A 20020124

Priority

FR 0102627 A 20010227

Abstract (en)

[origin: EP1235243A1] The circuit breaker includes two contacts (1,2) in a cut-off space filled with dielectric gas under pressure. A thermal extinguishing chamber (4) and a piston compression chamber (5) are linked, with a control valve regulating the movement of dielectric gas according to operating circumstances. The gas pressure within the cut-off space varies with different cut-off currents passing between arcing contacts. The circuit breaker includes two contacts (1,2) in a cut-off space filled with dielectric gas under pressure, and between which an arc forms during opening of the circuit breaker. A thermal extinguishing chamber (4) communicates directly with the cut-off space, and a piston compression chamber (5) communicates with the thermal extinguishing chamber. The piston compression chamber (5) communicates with the cut-off space by an evacuation channel (13) which is separated from the thermal extinguishing chamber and which is closed by a valve (14). The valve is situated between the thermal extinguishing chamber (4) and the piston compression chamber (5) so as to open and allow the evacuation of over-pressure gas from the piston compression chamber through the cut-off space via the channel (13), when the over-pressure of gas in the thermal extinguishing chamber is greater than the over-pressure of gas in the piston compression chamber.

IPC 8 full level

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CPC (source: EP US)

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