

Title (en)
CIRCUIT BREAKER WITH SELFPRODUCED FLOW OF EXTINGUISHING GAS

Publication
EP 0296363 B1 19930414 (DE)

Application
EP 88108091 A 19880520

Priority
DE 3720816 A 19870624

Abstract (en)
[origin: EP0296363A2] The invention relates to a circuit breaker with a self-produced flow of extinguishing gas, having a compression device for blasting out arcs. In the known self-blasting circuit breakers, intensive current arcs produce an overpressure which penetrates into the compression device, inhibits the switching movement and is not used optimally for blasting out the arc. Furthermore, the pressure chamber and the nozzle gap are not matched to the current intensity of the arc. The invention provides the following measures, to improve the switching characteristics in the case of intensive current arcs: Seals (10) arranged in the openings (1) between the compression chamber (7) and the pressure chamber (6), which seals close in the pressure chamber (6) in the case of a sharp increase in pressure, venting the compression chamber (7) in the case of a sharp increase in pressure, a pressure-dependent increase in the size of the pressure chamber (6), by means of a movable cylinder base (9) and a nozzle gap (15), which adjusts itself as a function of the pressure. <IMAGE>

IPC 1-7
H01H 33/91

IPC 8 full level
H01H 33/90 (2006.01); **H01H 33/91** (2006.01); **H01H 33/915** (2006.01); **H01H 3/60** (2006.01)

CPC (source: EP)
H01H 33/901 (2013.01); **H01H 3/605** (2013.01); **H01H 2033/906** (2013.01); **H01H 2033/908** (2013.01)

Cited by
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Designated contracting state (EPC)
CH DE FR LI SE

DOCDB simple family (publication)
EP 0296363 A2 19881228; EP 0296363 A3 19891018; EP 0296363 B1 19930414; DE 3720816 A1 19890105; DE 3720816 C2 19900628; DE 3880211 D1 19930519

DOCDB simple family (application)
EP 88108091 A 19880520; DE 3720816 A 19870624; DE 3880211 T 19880520