

Title (en)
GAS-BLAST HIGH TENSION CIRCUIT BREAKER

Publication
EP 0149470 A3 19850814 (FR)

Application
EP 85100183 A 19850110

Priority
FR 8400474 A 19840113

Abstract (en)
[origin: US4577074A] The gas-blast type high voltage circuit breaker includes a first volume (27) in which gas pressure is increased due to heating by the breaking arc, the gas in this volume escaping to blow out the arc at current zero of the current being interrupted, and a second volume (37) in which the gas is compressed by a piston (39) at the beginning of the breaker opening phase, said gas being directed at the arc during the following phases. Circuit breaker further comprises main fixed contacts (21), fixed arcing contacts (24), main moving contacts and moving arcing contacts, the arc extending between the arcing contacts as the circuit breaker opens, said first volume (27) and second volume (37) being disposed to each side of the arcing region, being annular and ending in nozzles (26, 42) which direct separate jets of gas to the two respective roots of the arc.

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)

CPC (source: EP US)
H01H 33/901 (2013.01 - EP US); **H01H 2033/902** (2013.01 - EP US)

Citation (search report)
• [AD] DE 1127442 B 19620412 - SIEMENS AG
• [AD] FR 2373141 A1 19780630 - CEM COMP ELECTRO MEC [FR]
• [AD] DE 2948976 A1 19810205 - SPRECHER & SCHUH AG
• [A] FR 2506511 A1 19821126 - MITSUBISHI ELECTRIC CORP [JP]
• [A] CH 517371 A 19711231 - BBC BROWN BOVERI & CIE [CH]
• [A] EP 0067460 A1 19821222 - BBC BROWN BOVERI & CIE [CH]
• [A] FR 2520928 A1 19830805 - ALSTHOM ATLANTIQUE [FR]
• [A] EP 0035581 A1 19810916 - SPRECHER & SCHUH AG [CH]
• [A] FR 890516 A 19440210 - DELLE ATEL CONST ELECTR
• [A] EP 0021951 A1 19810107 - MERLIN GERIN [FR]
• [AD] FR 2519470 A1 19830708 - ALSTHOM ATLANTIQUE [FR]

Cited by
FR2575323A1; FR2586136A1; FR2711013A1; EP0458236A1; FR2662540A1; US5155313A

Designated contracting state (EPC)
AT BE CH DE GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0149470 A2 19850724; EP 0149470 A3 19850814; EP 0149470 B1 19880113; AT E31995 T1 19880115; DE 3561429 D1 19880218; FR 2558299 A1 19850719; FR 2558299 B1 19870320; US 4577074 A 19860318

DOCDB simple family (application)
EP 85100183 A 19850110; AT 85100183 T 19850110; DE 3561429 T 19850110; FR 8400474 A 19840113; US 69104285 A 19850114