

Title (en)
HIGH VOLTAGE POWER CIRCUIT BREAKER

Publication
EP 0042456 B1 19850123 (DE)

Application
EP 80200596 A 19800623

Priority
EP 80200596 A 19800623

Abstract (en)
[origin: US4427859A] A high voltage power switch has a stationary contact and an axially displaceable contact, with a nozzle-like orifice through which quenching gas flows during the disconnecting process from a quenching chamber to an expansion chamber, and a coil through which the disconnect current flows after the commutation of the disconnect arc to an annular contact. Between the stationary contact and the annular contact at least one exhaust channel is provided, whereby prior to the commutation of the disconnect arc to the annular contact, the quenching gas heated by the disconnect arc is removed from the contact-break path and conducted into a discharge chamber. This feature enables the dielectric strength of the arc path to be increased by simple means, while simultaneously effecting a commutation of the disconnect arc from the stationary arcing contact to the annular contact in a constantly secure manner.

IPC 1-7
H01H 33/74; **H01H 33/98**; **H01H 9/52**

IPC 8 full level
H01H 33/98 (2006.01)

CPC (source: EP US)
H01H 33/982 (2013.01 - EP US)

Cited by
FR2542918A1; FR2554274A1; EP0175209A3; EP0731482A3; EP0388323A1; FR2644624A1; US5057655A; WO2017032667A1

Designated contracting state (EPC)
CH DE FR IT

DOCDB simple family (publication)
EP 0042456 A1 19811230; **EP 0042456 B1 19850123**; CS 229671 B2 19840618; DE 3070004 D1 19850307; US 4427859 A 19840124; YU 108581 A 19830630; YU 39700 B 19850320

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EP 80200596 A 19800623; CS 463981 A 19810619; DE 3070004 T 19800623; US 27534881 A 19810618; YU 108581 A 19810427