Title (en)

## PUFFER TYPE GAS-BLAST CIRCUIT INTERRUPTER

Publication

# EP 0039096 A3 19820428 (DE)

Application

# EP 81200351 A 19810330

Priority

DE 3015946 A 19800425

#### Abstract (en)

[origin: US4438308A] A puffer piston circuit breaker has a stationary contact and a movable contact, of which at least the movable contact is tubular in shape. A piston-cylinder puffer assembly is fixedly connected with the movable contact for providing a flow of gas to extinguish the arc when the cylinder and the piston are displaced with respect to each other. In order to reduce the driving force required to actuate the moving parts to effect a flow of gas, a supplemental piston-cylinder assembly is also provided, the compression space of which is compressed by a helical spring device actuated by the current during a switching operation, such that additional quenching gas is supplied to the extinguishing flow. At least part of the current is commutated onto the spring during a switching action. The helical spring is securely clamped on one end and on the other end is fixedly connected with a movable piston of the supplemental piston-cylinder assembly. When current is flowing through the helical spring, the windings contract so that the movable piston is urged against a stationary piston member at one end of the supplemental piston-cylinder assembly.

IPC 1-7

H01H 33/88

### IPC 8 full level

H01H 33/88 (2006.01); H01H 33/915 (2006.01)

CPC (source: EP US)

H01H 33/882 (2013.01 - EP US)

Citation (search report)

• DE 1151586 Ċ

- DE 1226682 B 19661013 SIEMENS AG
- DE 2526493 A1 19761223 LICENTIA GMBH
- DD 77527 A

Cited by

EP1811537A1; EP0061992A3; EP0175954A3; FR2542499A1; EP0146671A1; US4598188A; FR2704685A1; WO2007082399A1

Designated contracting state (EPC) CH DE FR LI NL

DOCDB simple family (publication)

EP 0039096 A2 19811104; EP 0039096 A3 19820428; EP 0039096 B1 19851113; DE 3015946 A1 19811029; DE 3172868 D1 19851219; US 4438308 A 19840320

DOCDB simple family (application)

EP 81200351 Å 19810330; DE 3015946 A 19800425; DE 3172868 T 19810330; US 25770981 A 19810427