

Title (en)

HIGH OR MEDIUM VOLTAGE GAS BLAST CIRCUIT BREAKER WITH OPENING ENERGY TAKEN FROM THE ARC ENERGY

Publication

**EP 0302390 B1 19920617 (FR)**

Application

**EP 88112228 A 19880728**

Priority

FR 8710988 A 19870803

Abstract (en)

[origin: JPS6459732A] PURPOSE: To generate the second arc only when the current to be cut off is strong by separating auxiliary contact pieces generating the second arc only when the pressure in a blast zone reaches the prescribed threshold value. CONSTITUTION: For the cutoff of a strong current, pressure is increased in the zone adjacent to the generated primary arc 30, and a member 24 is moved against the action of a spring 23. When auxiliary arc contact pieces 22a, 21c are separated by the movement of the member 24, the secondary arc 31 is generated. A current flows on members 4, 3, 5a, 5b, 18, 18a, 19, 22, the arc 31, members 21c, 21, 21a, the arc 30, and members 25a, 25. The arc 31 remarkably increases the pressure in a space V2, and the pressure applied to a piston 12 is increased. This piston 12 acts on a large area S4, and the blow-off force of the primary arc 30 by the gas in a space V1 is increased. The threshold value of the cutoff current generating the secondary arc 31 is adjusted by the force of the spring 23.

IPC 1-7

**H01H 33/70**; **H01H 33/95**

IPC 8 full level

**H01H 33/91** (2006.01); **H01H 33/70** (2006.01); **H01H 33/90** (2006.01); **H01H 33/915** (2006.01); **H01H 33/95** (2006.01)

CPC (source: EP US)

**H01H 33/7007** (2013.01 - EP US); **H01H 33/903** (2013.01 - EP US)

Cited by

FR2691575A1; EP0554686A1; EP0526296A1; FR2679696A1; US5258589A; EP0406794A1; FR2649531A1; US4996399A; EP0456025A1; FR2661550A1; US5160818A

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