

Title (en)

High power circuit breaker with sealing against hot arcing gasses

Title (de)

Hochleistungsschalter mit Dichtung gegen Heissgas

Title (fr)

Disjoncteur à haute puissance avec joint contre les gaz d'arc

Publication

EP 1675145 A1 20060628 (DE)

Application

EP 04405797 A 20041223

Priority

EP 04405797 A 20041223

Abstract (en)

A seal (1) protects a hot-gas/gas-pressure-sensitive element (10) from a flow (8) of hot gas and has a means (2a) of generating a sectional flow so as to create a sectional flow (8a) of hot gas in the flow of hot gas. Downstream to this, a channel (2) reduces mass flow rate in the sectional flow. A means (3) of expansion expands the sectional flow according to volume. An independent claim is also included for a method for protecting a hot-gas/gas-pressure-sensitive element in a heavy-duty circuit breaker from a flow of hot gas.

IPC 8 full level

H01H 33/70 (2006.01)

CPC (source: EP US)

H01H 33/70 (2013.01 - EP US); **H01H 2033/888** (2013.01 - EP US)

Citation (search report)

- [X] DE 1271241 B 19680627 - SIEMENS AG
- [X] EP 0290950 A1 19881117 - BBC BROWN BOVERI & CIE [CH]
- [A] US 5483210 A 19960109 - OTTERBERG TOMAS B [US], et al
- [A] US 3674957 A 19720704 - KORNER GERHARD, et al
- [A] US 3670126 A 19720613 - ROIDT ROBERT M
- [A] US 3612799 A 19711012 - CARTER WILLIAM A, et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1675145 A1 20060628; AT E400885 T1 20080715; CN 101088135 A 20071212; CN 101088135 B 20120418; DE 502005004684 D1 20080821; EP 1829076 A1 20070905; EP 1829076 B1 20080709; JP 2008525946 A 20080717; US 2008011719 A1 20080117; US 7732727 B2 20100608; WO 2006066429 A1 20060629

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EP 04405797 A 20041223; AT 05812904 T 20051214; CH 2005000750 W 20051214; CN 200580044563 A 20051214; DE 502005004684 T 20051214; EP 05812904 A 20051214; JP 2007547140 A 20051214; US 81272907 A 20070621