

Title (en)

CIRCUIT BREAKER, VALVE ASSEMBLY AND OPERATING METHOD THEREOF

Title (de)

SCHUTZSCHALTER, VENTILANORDNUNG UND BETRIEBSVERFAHREN DAFÜR

Title (fr)

DISJONCTEUR, ENSEMBLE SOUPAPE ET LEUR PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 3979287 A1 20220406 (EN)

Application

EP 20199459 A 20200930

Priority

EP 20199459 A 20200930

Abstract (en)

A circuit breaker, a valve assembly and an operating method thereof are provided. The circuit breaker comprises a compression volume surrounding at least a portion of a space between first and second electric contacts, and a low-pressure volume, filled with insulating gas, disposed adjacent to the compression volume. The circuit breaker further comprises a valve assembly interconnecting the compression volume and the low-pressure volume, and configured to allow threshold-based flow of the insulating gas. The valve assembly comprises a valve body. The valve assembly also comprises a first valve plate movably mounted in the valve body and a second valve plate movably seated on the first valve plate. The valve assembly further comprises a plurality of Belleville springs radially arranged in the valve body, and configured to constrain the movement of the first valve plate up to the third position of the second valve plate in the valve body.

IPC 8 full level

H01H 33/90 (2006.01)

CPC (source: EP)

H01H 33/901 (2013.01); **H01H 2033/906** (2013.01); **H01H 2033/908** (2013.01)

Citation (applicant)

EP 3419039 A1 20181226 - GENERAL ELECTRIC TECHNOLOGY GMBH [CH]

Citation (search report)

- [YD] EP 3419039 A1 20181226 - GENERAL ELECTRIC TECHNOLOGY GMBH [CH]
- [Y] EP 0951039 A1 19991020 - ABB RESEARCH LTD [CH]
- [A] WO 9320573 A1 19931014 - SIEMENS AG [DE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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