

Title (en)  
GAS-INSULATION SWITCH DEVICE

Title (de)  
GASISOLIERTE SCHALTVORRICHTUNG

Title (fr)  
DISPOSITIF DE COMMUTATION À ISOLATION GAZEUSE

Publication  
**EP 3561840 A4 20200819 (EN)**

Application  
**EP 16923924 A 20161216**

Priority  
JP 2016087587 W 20161216

Abstract (en)  
[origin: EP3561840A1] A gas-insulated switchgear which efficiently removes a remaining thermal gas to improve an insulation performance, and which is capable of easily accomplishing a current breaking duty required for a switchgear for a high voltage is provided. Inside a movable shield 23, with a piston 25a of an operation rod 25 being a partition wall, a compression chamber 30 and a suction chamber 31 are formed at a movable-contact-base-22 side and a movable-contact-21 side, respectively. The compression chamber 30 compresses an insulating gas in the compression chamber 30 by a movement of the piston 25a at the time of circuit opening operation, and sprays the insulating gas to an arc 40 produced between the fixed arcing contact 11 and the movable contact 21 via a communication hole 25c, a hollow portion 25b, and a ventilation hole 21a. The suction chamber 31 reduces the internal pressure by expanding an internal space by a movement of the piston 25a to suction a high-temperature gas due to the arc 40 through a clearance 31a between the movable contact 21 and the movable shield 23.

IPC 8 full level  
**H01H 33/04** (2006.01); **H01H 33/88** (2006.01); **H01H 33/90** (2006.01); **H01H 33/91** (2006.01)

CPC (source: EP)  
**H01H 33/88** (2013.01); **H01H 33/90** (2013.01); **H01H 33/904** (2013.01); **H01H 33/91** (2013.01)

Citation (search report)

- [Y] EP 2278604 A1 20110126 - ABB TECHNOLOGY AG [CH]
- [Y] US 2013168357 A1 20130704 - YAGINUMA NORIYUKI [JP], et al
- [Y] EP 2662877 A1 20131113 - MITSUBISHI ELECTRIC CORP [JP]
- See also references of WO 2018109931A1

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

DOCDB simple family (publication)  
**EP 3561840 A1 20191030; EP 3561840 A4 20200819**; CN 110088866 A 20190802; CN 110088866 B 20211119; JP 6823082 B2 20210203; JP WO2018109931 A1 20191024; WO 2018109931 A1 20180621

DOCDB simple family (application)  
**EP 16923924 A 20161216**; CN 201680091563 A 20161216; JP 2016087587 W 20161216; JP 2018556149 A 20161216