

Title (en)  
HIGH VOLTAGE CIRCUIT BREAKER

Title (de)  
HOCHSPANNUNGS-LEISTUNGSSCHALTER

Title (fr)  
DISJONCTEUR HAUTE TENSION

Publication  
**EP 4383302 A1 20240612 (EN)**

Application  
**EP 22212204 A 20221208**

Priority  
EP 22212204 A 20221208

Abstract (en)  
The invention relates to a high voltage circuit breaker (1) comprising two contact elements (2) arranged opposite and movable relative to one another along a centre axis (3) of the high-voltage circuit breaker (1), and forming, during a breaking operation, in an arcing region (4) between the two contact elements (2) an arc extinguishable by an arc extinguishing gas; a heating volume (8) and a heating channel (7) connected to the arcing region (4) and configured for dissipating arc extinguishing gas (14) heated by the arc into the heating volume (8); and a cooling structure (11) embedded in the heating volume (8) and configured for cooling the heated arc extinguishing gas (14) flowing into the heating volume (8).

IPC 8 full level  
**H01H 9/52** (2006.01); **H01H 33/70** (2006.01); **H01H 33/90** (2006.01)

CPC (source: EP)  
**H01H 9/52** (2013.01); **H01H 33/7023** (2013.01); **H01H 33/905** (2013.01); **H01H 2009/526** (2013.01); **H01H 2033/908** (2013.01)

Citation (search report)

- [XYI] US 2022165523 A1 20220526 - MCCORD NEIL [CA], et al
- [XYI] US 2011297647 A1 20111208 - CERNAT RADU-MARIAN [DE], et al
- [X] WO 2017032667 A1 20170302 - ABB SCHWEIZ AG [CH]
- [YA] EP 3840005 A1 20210623 - ABB POWER GRIDS SWITZERLAND AG [CH]
- [YA] US 2019295791 A1 20190926 - SAKAI MISUZU [JP], 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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4383302 A1 20240612**

DOCDB simple family (application)  
**EP 22212204 A 20221208**