

Title (en)

MEDIUM-VOLTAGE CIRCUIT BREAKER

Title (de)

MITTELSPANNUNGS-LASTTRENNSCHALTER

Title (fr)

INTERRUPTEUR-SECTIONNEUR À MOYENNE TENSION

Publication

EP 3948912 A1 20220209 (DE)

Application

EP 20710860 A 20200305

Priority

- EP 2020055866 W 20200305
- DE 102019206807 A 20190510

Abstract (en)

[origin: WO202229011A1] The invention relates to a medium-voltage circuit breaker, comprising: - two contacts mounted so as to be movable relative to one another, a first of the contacts being a pin contact (18) and the second of the contacts being a hollow contact (4) having a contact bore (16) for accommodating the pin contact (18), - a hollow contact system (6) which comprises the hollow contact (4) and a compression volume (20), - an arcing chamber (14), - an insulating material nozzle (8) which surrounds at least one of the contacts (4, 18) and comprises a self-blast volume (10) for accommodating an insulating gas, the self-blast volume (10) having an opening (12) to the arcing chamber (14), - a plunger (24) which is movably mounted with respect to the hollow contact system (6), wherein - the contact bore (16) opens into the arcing chamber (14) on a first side (17) and is connected to the compression volume (20) on a second side (19), - the compression volume (20) is delimited by the plunger (24) on a side (22) facing away from the contact bore (16), - the plunger (24) performs a translational movement (26) with respect to the hollow contact system (6) during an opening movement of the contacts (4, 18) and causes the compression volume (20) to reduce.

IPC 8 full level

H01H 33/88 (2006.01); **H01H 33/70** (2006.01); **H01H 33/91** (2006.01)

CPC (source: EP)

H01H 33/7023 (2013.01); **H01H 33/88** (2013.01); **H01H 33/91** (2013.01)

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)

BA ME

DOCDB simple family (publication)

DE 102019206807 A1 20201112; CN 113966542 A 20220121; CN 113966542 B 20240920; EP 3948912 A1 20220209; EP 3948912 B1 20231220; ES 2974369 T3 20240627; WO 2020229011 A1 20201119

DOCDB simple family (application)

DE 102019206807 A 20190510; CN 202080042509 A 20200305; EP 2020055866 W 20200305; EP 20710860 A 20200305; ES 20710860 T 20200305