

Title (en)
AIR CIRCUIT BREAKER

Title (de)
OFFENER LEISTUNGSSCHALTER

Title (fr)
DISJONCTEUR À AIR

Publication
EP 3998622 A4 20220907 (EN)

Application
EP 20836242 A 20200519

Priority
• JP 2019128879 A 20190711
• JP 2020019716 W 20200519

Abstract (en)
[origin: EP3998622A1] The present disclosure includes: a fixed element (2) having a fixed contactor (1); a movable element (4) having a movable contactor (3) contactable with and separable from the fixed contactor (1); an arc extinguishing chamber (14) in which an arc (16) is extinguished; a fixed-side arc runner (10) having an end portion extending in a direction opposite to a direction toward the movable element (4), from an interval between the fixed element (2) and the arc extinguishing chamber (14); a movable-side arc runner (11) having an end portion extending in a direction opposite to a direction toward the fixed element (2), from an interval between the movable element (4) and the arc extinguishing chamber (14); and a mold frame (15) enclosing the fixed element (2) and the movable element (4) and supporting the fixed element (2), the movable element (4), the fixed-side arc runner (10), and the movable-side arc runner (11). The mold frame (15) includes: a fixed-side gas discharge passage (21) through which a port provided in a side surface of the mold frame (15) and a fixed-side gas discharge port (19) are in communication with each other and which is separated from the fixed element (2) side by a fixed-side blocking wall (23); and a movable-side gas discharge passage (22) through which a port provided in a side surface of the mold frame (15) and a movable-side gas discharge port (20) are in communication with each other and which is separated from the movable element (4) side by a movable-side blocking wall (24).

IPC 8 full level
H01H 73/06 (2006.01); **H01H 33/20** (2006.01); **H01H 73/18** (2006.01)

CPC (source: EP)
H01H 9/342 (2013.01); **H01H 9/46** (2013.01); **H01H 33/10** (2013.01); **H01H 33/20** (2013.01)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2021005889A1

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)
EP 3998622 A1 20220518; **EP 3998622 A4 20220907**; **EP 3998622 B1 20230913**; JP 7150178 B2 20221007; JP WO2021005889 A1 20211223; WO 2021005889 A1 20210114

DOCDB simple family (application)
EP 20836242 A 20200519; JP 2020019716 W 20200519; JP 2021530510 A 20200519