

Title (en)

INTERRUPTER UNIT HAVING A VACUUM TUBE AND AN INSULATING HOUSING

Title (de)

UNTERBRECHEREINHEIT MIT EINER VAKUUMRÖHRE UND EINEM ISOLIERGEHÄUSE

Title (fr)

UNITÉ D'INTERRUPTEUR COMPORTANT UN TUBE À VIDE ET BOÎTIER ISOLANT

Publication

**EP 3984054 A1 20220420 (DE)**

Application

**EP 20725438 A 20200428**

Priority

- DE 102019211345 A 20190730
- EP 2020061663 W 20200428

Abstract (en)

[origin: WO2021018426A1] The invention relates to an interrupter unit comprising a vacuum interrupter (4) and an insulating housing (6), wherein the insulating housing (6) has an inner surface (8) and the vacuum interrupter (4) is bordered at least partially by an electrically insulating structure material (22), which has an outer surface (10), and the insulating housing (6) at least partially surrounds the vacuum interrupter (4), wherein, in a ready-for-operation state of the interrupter unit (2), the inner surface (10) of the insulating housing (6) and the outer surface (10) of the vacuum interrupter (4) are separated by an adhesion layer (12), characterised in that both the inner surface (8) and the outer surface (10) are provided at least partially with an electrically conductive layer (14, 16), such that, in a boundary region (18) between the vacuum interrupter (4) and the insulating housing (6), there is the following layer sequence directed radially outwards from a switch axis (20): structure material (22) of the vacuum interrupter; outer surface (10) of the structure material (22); conductive layer (16) on the outer surface (10) of the structure material (22); adhesion layer (12); conductive layer (14) on the insulating housing (6); inner surface of insulating housing (8); and volume material (24) of the insulating housing (6).

IPC 8 full level

**H01H 33/662** (2006.01)

CPC (source: EP US)

**H01H 33/66207** (2013.01 - EP US); **H01H 2033/66223** (2013.01 - US); **H01H 2033/6623** (2013.01 - EP)

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)

**WO 2021018426 A1 20210204**; CN 114175201 A 20220311; CN 114175201 B 20240308; DE 102019211345 A1 20210204; EP 3984054 A1 20220420; EP 3984054 B1 20230705; EP 3984054 C0 20230705; JP 2022542594 A 20221005; JP 7263615 B2 20230424; US 11915895 B2 20240227; US 2022319786 A1 20221006

DOCDB simple family (application)

**EP 2020061663 W 20200428**; CN 202080054816 A 20200428; DE 102019211345 A 20190730; EP 20725438 A 20200428; JP 2022505527 A 20200428; US 202017631564 A 20200428