

Title (en)
VACUUM INTERRUPTER TUBE

Title (de)
VAKUUMSCHALTROHRE

Title (fr)
TUBE COMMUTATEUR SOUS VIDE

Publication
EP 3724907 A1 20201021 (DE)

Application
EP 18815523 A 20181120

Priority
• DE 102017222406 A 20171211
• EP 2018081927 W 20181120

Abstract (en)
[origin: WO2019115178A1] The invention relates to a vacuum interrupter tube (10), comprising at least one insulating body (20), a fixed contact (30), a fixed contact flange (40), a moving contact (50) having a longitudinal axis (56) of the moving contact (50), a moving contact flange (60), a moving contact bearing (70), and a bellows (80), wherein the fixed contact (30) is stationarily arranged in the fixed contact flange (40), the moving contact (50) is moveably guided in the moving contact bearing (70) and the moving contact is moveably secured to the moving contact flange (60) by the bellows (80), wherein the bellows (80) is secured to the moving contact flange (60) by a first bellows end (82) and the bellows (80) is secured to the moving contact (50) by a second bellows end (84), wherein an increased pressure resistance of the vacuum interrupter tube (10) against ambient pressures over 1 bar is achieved by a sleeve (90) which is secured to the moving contact (50) against movements along the longitudinal axis (56) of the moving contact (50), and which is guided through the moving contact bearing (52).

IPC 8 full level
H01H 33/662 (2006.01)

CPC (source: EP US)
H01H 33/66238 (2013.01 - EP US); **H01H 33/664** (2013.01 - US); **H01H 2033/66223** (2013.01 - EP); **H01H 2033/66246** (2013.01 - EP); **H01H 2033/66253** (2013.01 - EP)

Citation (search report)
See references of WO 2019115178A1

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 102017222406 A1 20190613; CN 111448635 A 20200724; CN 111448635 B 20230714; EP 3724907 A1 20201021; JP 2021506095 A 20210218; JP 7179864 B2 20221129; US 11676784 B2 20230613; US 2021074494 A1 20210311; WO 2019115178 A1 20190620

DOCDB simple family (application)
DE 102017222406 A 20171211; CN 201880079716 A 20181120; EP 18815523 A 20181120; EP 2018081927 W 20181120; JP 2020549872 A 20181120; US 201816771801 A 20181120