

Title (en)

A MEDIUM VOLTAGE SWITCHING APPARATUS

Title (de)

MITTELSPANNUNGSSCHALTvorrichtung

Title (fr)

APPAREIL DE COMMUTATION MOYENNE TENSION

Publication

**EP 4276869 A1 20231115 (EN)**

Application

**EP 22173022 A 20220512**

Priority

EP 22173022 A 20220512

Abstract (en)

A switching apparatus comprising one or more electric poles. For each electric pole, the switching apparatus comprises a first pole terminal, a second pole terminal and a ground terminal. In operation, the first pole terminal can be electrically coupled to a first conductor of an electric line, the second pole terminal can be electrically coupled to a second conductor of said electric line and the ground terminal can be electrically coupled to a grounding conductor. For each electric pole, the switching apparatus comprises a plurality of fixed contacts spaced apart one from another. Such a plurality of fixed contacts comprises a first fixed contact electrically connected to the first pole terminal, a second fixed contact electrically connected to the second pole terminal, a third fixed contact electrically connected to the ground terminal and a fourth fixed contact electrically connectable with the second fixed contact. For each electric pole, the switching apparatus further comprises a movable contact, which is reversibly movable about a corresponding rotation axis according to opposite first and second rotation directions, so that said movable contact can be coupled to or uncoupled from one or more of the above-mentioned fixed contacts, and a vacuum interrupter comprising a vacuum chamber, in which a fixed arc contact and a movable arc contact are enclosed and can be coupled or decoupled. For each electric pole, the switching apparatus further comprises a motion transmission mechanism operatively coupled to the movable arc contact of said vacuum interrupter. The motion transmission mechanism is actuatable by the movable contact to cause a movement of said movable arc contact along said translation axis, when said movable contact moves about said rotation axis.

IPC 8 full level

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CPC (source: CN EP)

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Citation (search report)

- [Y] WO 2014001029 A1 20140103 - SIEMENS AG [DE]
- [Y] US 2954450 A 19600927 - MIKOS JOHN J
- [Y] CN 1148255 A 19970423 - FELTEN & GUILLEAUME ENERGIE [DE]
- [Y] EP 2312603 A1 20110420 - ABB TECHNOLOGY AG [CH]
- [Y] EP 2645378 A1 20131002 - ABB TECHNOLOGY AG [CH]

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

Designated validation state (EPC)

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DOCDB simple family (application)

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