

Title (en)
A MEDIUM VOLTAGE SWITCHING APPARATUS

Title (de)
MITTELSPANNUNGSSCHALTVORRICHTUNG

Title (fr)
APPAREIL DE COMMUTATION MOYENNE TENSION

Publication
EP 4283645 A1 20231129 (EN)

Application
EP 22175537 A 20220525

Priority
EP 22175537 A 20220525

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
H01H 3/30 (2006.01); **H01H 31/00** (2006.01); **H01H 33/12** (2006.01); **H01H 33/666** (2006.01); **H01H 3/42** (2006.01); **H01H 31/28** (2006.01); **H01H 33/02** (2006.01)

CPC (source: CN EP)
H01H 3/3047 (2013.01 - EP); **H01H 31/003** (2013.01 - EP); **H01H 33/126** (2013.01 - EP); **H01H 33/664** (2013.01 - CN); **H01H 33/666** (2013.01 - CN); **H01H 33/6661** (2013.01 - EP); **H01H 3/42** (2013.01 - EP); **H01H 31/28** (2013.01 - EP); **H01H 33/022** (2013.01 - EP); **H01H 2033/6667** (2013.01 - EP)

Citation (search report)
• [A] WO 2014001029 A1 20140103 - SIEMENS AG [DE]
• [A] US 2012048692 A1 20120301 - PICCOZ DANIEL [FR], et al

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)
KH MA MD TN

DOCDB simple family (publication)
EP 4283645 A1 20231129; CN 117133588 A 20231128

DOCDB simple family (application)
EP 22175537 A 20220525; CN 202310497345 A 20230505