

Title (en)

Polarity-independent switching device for the transmission and disconnection of direct currents

Title (de)

Polaritätsunabhängiges Schaltgerät zum führen und trennen von Gleichströmen

Title (fr)

Commutateur indépendant de la polarité pour la conduction et la séparation de courants continus

Publication

EP 2743950 B1 20170419 (DE)

Application

EP 13196977 A 20131212

Priority

DE 102012112202 A 20121213

Abstract (en)

[origin: EP2743950A1] The switching device has gastight sealed electrically insulating housing (3) containing movable contact (21) and fixed contact (15). The two contacts contact each other during switched-on state and are separated from each other during switched off-state. An arc driving arrangement is configured to generate magnetic field in the region of the contacts. The arc guidance arrangements are configured to conduct the arcs generated in preset current directions between the contacts toward the purge area (31) of the housing.

IPC 8 full level

H01H 9/44 (2006.01); **H01H 9/46** (2006.01)

CPC (source: EP US)

H01H 9/443 (2013.01 - EP US); **H01H 9/46** (2013.01 - EP US); **H01H 33/18** (2013.01 - US); **H01H 33/64** (2013.01 - US); **H01H 1/20** (2013.01 - EP US); **H01H 9/36** (2013.01 - EP US); **H01H 50/546** (2013.01 - EP US)

Citation (examination)

DE 69111334 T2 19960321 - EATON CORP [US]

Cited by

FR3134224A1; WO2017141197A1; WO2023187295A1; WO2023017220A1

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

DOCDB simple family (publication)

EP 2743950 A1 20140618; **EP 2743950 B1 20170419**; DE 102012112202 A1 20140618; PL 2743950 T3 20170831; US 2014166620 A1 20140619; US 9224558 B2 20151229

DOCDB simple family (application)

EP 13196977 A 20131212; DE 102012112202 A 20121213; PL 13196977 T 20131212; US 201314105218 A 20131213