

Title (en)
SWITCHING DEVICE

Title (de)
SCHALTGERÄT

Title (fr)
DISPOSITIF DE COMMUTATION

Publication
EP 2904624 B1 20180613 (DE)

Application
EP 13798977 A 20131121

Priority
• DE 102012222328 A 20121205
• EP 2013074356 W 20131121

Abstract (en)
[origin: WO2014086587A1] The invention relates to a switching device comprising a contact system, which is made of a movable contact that can be moved along a direction of movement and a fixed contact, and comprising an arc extinguishing device. The aim of the invention is to design such a switching device so as to have improved arc extinguishing properties. This is achieved by a switching device (1) comprising a contact system (4), which is made of a movable contact (7) that can be moved along a direction (12) of movement and a fixed contact (5), and comprising an arc extinguishing device with an arrangement (13) for generating a magnetic field formed on a plane perpendicular to the direction (12) of movement and with an electrode arrangement made of a first electrode (16) connected to the movable contact (7) in a conductive manner and a second electrode (18) connected to the fixed contact in a conductive manner, wherein the first electrode (16) and the second electrode (18) are arranged such that an electric field can be generated between the first electrode (16) and the second electrode (18) perpendicularly to the direction (12) of movement and perpendicularly to the magnetic field.

IPC 8 full level
H01H 9/34 (2006.01); **H01H 9/44** (2006.01); **H01H 33/664** (2006.01)

CPC (source: CN EP US)
H01H 9/44 (2013.01 - CN EP US); **H01H 33/18** (2013.01 - US); **H01H 33/6641** (2013.01 - CN EP US); **H01H 2009/365** (2013.01 - CN EP US)

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)
DE 102012222328 A1 20140605; **DE 102012222328 B4 20210602**; CN 104903985 A 20150909; CN 104903985 B 20180720; EP 2904624 A1 20150812; EP 2904624 B1 20180613; JP 2016502745 A 20160128; JP 6022708 B2 20161109; KR 20150093727 A 20150818; US 2015318129 A1 20151105; US 9502195 B2 20161122; WO 2014086587 A1 20140612; ZA 201503581 B 20160928

DOCDB simple family (application)
DE 102012222328 A 20121205; CN 201380063143 A 20131121; EP 13798977 A 20131121; EP 2013074356 W 20131121; JP 2015545730 A 20131121; KR 20157017450 A 20131121; US 201314647929 A 20131121; ZA 201503581 A 20150521