

Title (en)
MULTIPOLE ELECTRICAL SWITCHING DEVICE

Title (de)
MEHRPOLIGES ELEKTRISCHES SCHALTGERÄT

Title (fr)
APPAREIL MULTIPOLAIRE DE COMMUTATION ÉLECTRIQUE

Publication
EP 2489056 A1 20120822 (DE)

Application
EP 10765798 A 20101015

Priority
• DE 102009050296 A 20091015
• DE 102010014428 A 20100401
• EP 2010065568 W 20101015

Abstract (en)
[origin: WO2011045428A1] The invention relates to a multipole electrical switching device (1) with at least two switching poles (7), with a drive mechanism (12) and with a switching shaft (28), which is capable of rotating under the effect of the drive mechanism (12) about an axis of rotation (29) formed by pivot bearings, in which each of the switching poles (7) has in each case one current path (6) and one switching contact system for opening and closing the current path, wherein a movable contact arrangement of the switching contact system of each of the switching poles (7) has in each case an integral switching shaft segment (280), which is formed from insulating material, which bears a contact lever arrangement (30) and in which the switching shaft segments (280) of adjacent switching poles (7) are connected in each case by means of at least two connecting branches (34, 35) so as to form the switching shaft (28), said connecting branches extending in each case at a distance (A) parallel to the axis of rotation (29) and being formed from corresponding connecting elements (36, 38; 37, 39). In order to ensure connection of the switching shaft segments (280) with as precise a fit as possible, in which the modularity of the individual switching poles (7) is retained and complicated assembly operations are avoided, provision is made for all of the connection elements (36, 37, 38, 39) of the at least two connecting branches (34, 35) to be formed by first sections of the integral switching shaft segments (280), which bear the contact lever arrangements (30).

IPC 8 full level
H01H 71/10 (2006.01); **H01H 1/20** (2006.01); **H01H 9/00** (2006.01)

CPC (source: EP US)
H01H 1/2058 (2013.01 - EP US); **H01H 19/64** (2013.01 - US); **H01H 71/1009** (2013.01 - EP US); **H01H 73/045** (2013.01 - US);
H01H 2009/0094 (2013.01 - EP US)

Citation (search report)
See references of WO 2011045428A1

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)
WO 2011045428 A1 20110421; CN 102549701 A 20120704; CN 102549701 B 20170915; EP 2489056 A1 20120822; EP 2489056 B1 20170614;
US 2012199452 A1 20120809; US 9129768 B2 20150908

DOCDB simple family (application)
EP 2010065568 W 20101015; CN 201080046387 A 20101015; EP 10765798 A 20101015; US 201013500977 A 20101015