

Title (en)

Multi-pole switch fuse assembly for busbar systems

Title (de)

Mehrpole Schaltersicherungsanordnung für Sammelschienensysteme

Title (fr)

Agencement de sécurisation du commutateur à plusieurs pôles pour systèmes de barre collectrice

Publication

EP 2584577 A1 20130424 (DE)

Application

EP 11186126 A 20111021

Priority

EP 11186126 A 20111021

Abstract (en)

The switch arrangement (1) has two fused switch units (10), and a lever transmission mechanism (100) comprising three transmission levers. An end of transmission lever (120) is pivotally connected to housing (80) and to shift rail transmission lever (140). A shift-transmission lever (160) is hinged to an end of shift lever (40). The opposite ends of levers are hinged together so that during movement of shift lever to open position, force is exerted on shift rod (60) so that the rod moves in longitudinal direction relative to housing, into disconnecting position, against spring force. The multi-pole switch arrangement has two fused switch units for receiving a fuse (20), a contact device for bus-bars (90), a housing, a switching device for closing and interrupting the circuit of all switch units, a shift lever which is switched to and fro between closing and open positions, and a shift rod which is switched to and fro between contact and disconnecting positions. The switch rod with a spring device (70) is biased towards its disconnecting position, between the housing and the switch rod. The shift lever is connected via a lever transmission mechanism to the shift rod. The lever transmission mechanism comprises three transmission levers. An end of a transmission lever is pivotally connected to the housing and is connected to a shift rail transmission lever which is connected at its one end articulated to the shift rod. A shift-transmission lever is hinged to an end of shift lever. The respective opposite ends of each of the transmission levers are hinged together, so that during movement of the shift lever from its off position to its open position via the transmission mechanism, a force is exerted on the rod so that the rod moves in longitudinal direction relative to the housing, from its contact position into its disconnecting position, against the spring force of spring device.

Abstract (de)

Die vorliegende Erfindung betrifft eine mehrpolige Schaltersicherungsanordnung mit mindestens zwei Schaltersicherungseinheiten, in die jeweils ein Sicherungseinsatz eingesetzt werden kann. Die Schaltersicherungsanordnung umfasst eine Schaltvorrichtung zum Schließen und Unterbrechen des Stromkreises aller Schaltersicherungseinheiten, wobei die Schaltersicherungsanordnung einen Schalthebel, ein Gehäuse, eine Schaltstange und eine Hebelgetriebevorrichtung zur Betätigung einer Schaltstange umfasst.

IPC 8 full level

H01H 9/10 (2006.01); **H01H 19/635** (2006.01)

CPC (source: EP US)

H01H 9/104 (2013.01 - EP US); **H01H 19/635** (2013.01 - EP US); **H01H 89/04** (2013.01 - US); **H01H 3/06** (2013.01 - US); **H01H 23/14** (2013.01 - US); **H01H 23/162** (2013.01 - US); **H01H 23/164** (2013.01 - US)

Citation (applicant)

EP 1203385 B1 20040714 - BRUCHMANN KLAUS [DE]

Citation (search report)

- [AD] EP 1203385 B1 20040714 - BRUCHMANN KLAUS [DE]
- [A] EP 2197010 A1 20100616 - BRUCHMANN KLAUS [DE]
- [A] GB 554228 A 19430625 - PHILLIPS & POWIS AIRCRAFT LTD, et al

Cited by

WO2020151826A1; DE102022103915B3; DE102020125730B3; DE202020105647U1; DE102022103910A1; DE102022103910B4; EP3016122A1; DE202019100399U1

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

DOCDB simple family (publication)

EP 2584577 A1 20130424; **EP 2584577 B1 20140507**; ES 2480290 T3 20140725; PL 2584577 T3 20141031; US 2014266560 A1 20140918; US 9406475 B2 20160802; WO 2013056759 A1 20130425

DOCDB simple family (application)

EP 11186126 A 20111021; EP 2012003372 W 20120807; ES 11186126 T 20111021; PL 11186126 T 20111021; US 201214352028 A 20120807