

Title (en)

CONTACT DEVICE FOR AN ELECTRICAL SWITCH, AND ELECTRICAL SWITCH

Title (de)

KONTAKTVORRICHTUNG FÜR EINEN ELEKTRISCHEN SCHALTER UND ELEKTRISCHER SCHALTER

Title (fr)

DISPOSITIF DE CONTACT POUR UN COMMUTATEUR ÉLECTRIQUE ET COMMUTATEUR ÉLECTRIQUE

Publication

EP 3341950 A1 20180704 (DE)

Application

EP 16739178 A 20160718

Priority

- DE 102015114083 A 20150825
- EP 2016067031 W 20160718

Abstract (en)

[origin: WO2017032508A1] The contact device (30) for the electrical switch comprises a first connection element (31), a second connection element (32) and a movable contact bridge (33). Furthermore, the contact device (30) comprises at least two magnets for extinguishing arcs which arise during the switching of the electrical switch. The magnets generate a magnetic field in a first region which comprises at least one first contact region and one second contact region, in which contact regions, with the electrical switch in a closed switching position, the first connection element (31) and, respectively, the second connection element (32) are in contact with the contact bridge (33). In addition, the contact device (30) comprises one or more deflection elements which are arranged and designed to distort the magnetic field in such a way that a first arc which forms between the first connection element (31) and the contact bridge (33) and a second arc which forms between the second connection element (32) and the contact bridge (33) are forced into different directions, which extend pointing away from one another, independently of a respective flow direction in the connection elements (31, 32).

IPC 8 full level

H01H 33/18 (2006.01); **H01H 1/20** (2006.01); **H01H 9/44** (2006.01)

CPC (source: EP KR US)

H01H 1/20 (2013.01 - EP KR US); **H01H 9/443** (2013.01 - EP KR US); **H01H 33/182** (2013.01 - EP KR US); **H01H 50/546** (2013.01 - US)

Citation (search report)

See references of WO 2017032508A1

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)

DE 102015114083 A1 20170302; CN 108140506 A 20180608; CN 108140506 B 20200417; EP 3341950 A1 20180704; EP 3341950 B1 20240103; JP 2018530863 A 20181018; JP 6654692 B2 20200226; KR 102397524 B1 20220513; KR 20180043316 A 20180427; US 10727008 B2 20200728; US 2019206633 A1 20190704; WO 2017032508 A1 20170302

DOCDB simple family (application)

DE 102015114083 A 20150825; CN 201680062524 A 20160718; EP 16739178 A 20160718; EP 2016067031 W 20160718; JP 2018510856 A 20160718; KR 20187007887 A 20160718; US 201615754993 A 20160718