

Title (en)

ROTATING CONTACT APPARATUS FOR A SWITCH

Title (de)

ROTIERENDE KONTAKTVORRICHTUNG FÜR EINEN SCHALTER

Title (fr)

DISPOSITIF DE CONTACT ROTATIF POUR UN COMMUTATEUR

Publication

EP 3218912 B1 20180926 (DE)

Application

EP 15790577 A 20151106

Priority

- DE 102014116400 A 20141111
- EP 2015075894 W 20151106

Abstract (en)

[origin: CA2961724A1] The invention relates to a rotating contact apparatus (10) for a switch (12), having a contact apparatus housing (100) and a contact housing (14), a bearing (16) for the contact housing which is provided in the contact apparatus housing (100), wherein the contact housing is mounted in the bearing in a manner rotatable about an axis of rotation (18), a contact bridge (20) which is mounted in the contact housing, rotates with the latter and has, at each of the ends thereof, a receptacle (22, 24) for a stationary mating contact (26, 28), wherein the receptacles protrude from corresponding openings in the contact housing to such an extent that the receptacles engage with the stationary mating contacts during rotation of the contact housing and electrical contact may be produced between the stationary mating contacts via the contact bridge, and at least one spring terminal (30) which is arranged between the contact housing and the contact bridge in such a manner that the contact bridge is resiliently mounted in the contact housing approximately perpendicular to the rotational plane of the contact apparatus. According to the invention, the contact housing (14) is approximately cylindrical and at least partially has, on the lateral surface thereof, a gearwheel section (148), and the contact apparatus housing (100) has an opening (102) through which the gearwheel section (148) projects, with the result that the contact housing (14) can be caused to carry out a rotational movement for opening or closing the contacts between the stationary mating contacts (26, 28) and the receptacles (22, 24) via a gearwheel engaging in the gearwheel section (148).

IPC 8 full level

H01H 1/20 (2006.01); **H01H 3/40** (2006.01); **H01H 9/08** (2006.01)

CPC (source: CN EP US)

H01H 1/205 (2013.01 - CN EP US); **H01H 3/40** (2013.01 - CN EP US); **H01H 9/08** (2013.01 - CN EP US); **H01H 19/04** (2013.01 - US); **H01H 19/10** (2013.01 - US); **H01H 1/2058** (2013.01 - CN EP US); **H01H 19/64** (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 102014116400 A1 20160512; CA 2961724 A1 20160519; CN 107077979 A 20170818; EP 3218912 A1 20170920; EP 3218912 B1 20180926; US 2017316900 A1 20171102; WO 2016075039 A1 20160519

DOCDB simple family (application)

DE 102014116400 A 20141111; CA 2961724 A 20151106; CN 201580057058 A 20151106; EP 15790577 A 20151106; EP 2015075894 W 20151106; US 201515525291 A 20151106