

Title (en)
ELECTRICAL SWITCHING APPARATUS WITH SEPARABLE CONTACTS

Title (de)
ELEKTRISCHE SCHALTVORRICHTUNG MIT TRENNBAREN KONTAKTEN

Title (fr)
APPAREIL DE COMMUTATION ÉLECTRIQUE À CONTACTS SÉPARABLES

Publication
EP 3792949 A1 20210317 (FR)

Application
EP 20195643 A 20200911

Priority
FR 1910070 A 20190912

Abstract (en)
[origin: CN112490028A] An electrical switching unit (2) having separable contacts includes a switching device (4) including a control lever (18) mechanically coupled to a movable electrical contact (8) and a ballistic lever (26) mounted on the control lever (18) and configured to be displaced to a deployed position to cooperate with a support (24) to prevent the control lever from exiting the position thereof (18). The switching device comprises a fixed bearing (30) mounted around the control lever. The bulletproof rod includes a contact portion (28) that contacts an edge of the bearing when the bulletproof rod is in its rest position and that is displaced along the edge when the control rod is rotated about the bearing. The bearing includes, on the edge, a guide portion (34) in the form of a cam configured to push the bulletproof rod into its deployed position.

Abstract (fr)
Un appareil de commutation électrique (2) à contacts séparables, comprend un dispositif de commutation (4) comportant: un levier de commande (18) couplé mécaniquement à un contact électrique mobile (8) et un levier anti-rebond (26), monté sur le levier de commande (18) et configuré pour se déplacer vers une position déployée pour coopérer avec une butée (24) pour empêcher le levier de commande de quitter sa position. Le dispositif de commutation comporte un palier fixe (30) monté autour du levier de commande. Le levier anti-rebond comporte une portion de contact (28) qui est en contact contre un bord du palier lorsque le levier anti-rebond est dans sa position de repos et qui se déplace le long dudit bord lorsque le levier de commande tourne autour du palier. Le palier comporte, sur ledit bord, une portion de guidage (34) en forme de came configurée pour pousser le levier anti-rebond vers sa position déployée.

IPC 8 full level
H01H 71/50 (2006.01)

CPC (source: CN EP KR US)
H01H 1/50 (2013.01 - CN); **H01H 3/3015** (2013.01 - KR); **H01H 3/42** (2013.01 - US); **H01H 3/46** (2013.01 - US); **H01H 3/52** (2013.01 - US); **H01H 5/06** (2013.01 - KR); **H01H 71/04** (2013.01 - KR); **H01H 71/504** (2013.01 - EP); **H01H 3/38** (2013.01 - US); **H01H 2001/508** (2013.01 - CN); **H01H 2003/326** (2013.01 - US)

Citation (applicant)
EP 2801099 B1 20160323 - SCHNEIDER ELECTRIC IND SAS [FR]

Citation (search report)
• [A] CN 205920942 U 20170201 - SHANGHAI RENMIN ELECTRICAL APPARATUS WORKS CHINA
• [A] CN 107481901 A 20171215 - SHANGHAI RENMIN ELECTRICAL APPARATUS WORKS CHINA
• [A] EP 0089463 A2 19830928 - MITSUBISHI ELECTRIC CORP [JP]

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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EP 3792949 A1 20210317; **EP 3792949 B1 20220608**; CN 112490028 A 20210312; ES 2918515 T3 20220718; FR 3100921 A1 20210319; FR 3100921 B1 20210924; KR 20210031612 A 20210322; US 11062858 B2 20210713; US 2021082636 A1 20210318

DOCDB simple family (application)
EP 20195643 A 20200911; CN 202010902353 A 20200901; ES 20195643 T 20200911; FR 1910070 A 20190912; KR 20200113227 A 20200904; US 202016992710 A 20200813