

Title (en)

ELECTROMAGNETIC SWITCHING MECHANISM FOR ELECTRICAL SAFETY SWITCHES

Title (de)

ELEKTROMAGNETISCHER SCHALTMECHANISMUS FÜR ELEKTRISCHE SCHUTZSCHALTGERÄTE

Title (fr)

MECANISME DE COMMUTATION ELECTROMAGNETIQUE POUR APPAREILS ELECTRIQUES DE COMMUTATION DE PROTECTION

Publication

EP 0693220 A1 19960124 (DE)

Application

EP 94905088 A 19940119

Priority

- DE 4311958 A 19930410
- EP 9400125 W 19940119

Abstract (en)

[origin: WO9424689A1] The invention relates to an electromagnetic switching mechanism, especially for mobile electrical safety switches with manual, electromagnetic and free triggering of the breaking of the contact. It makes it possible to construct such a switching mechanism compactly as a structural unit suitable for inclusion in small protective switches. The switching mechanism has a tensioner (4) which operates in conjunction with the armature (9) of an electromagnet (12), a contact bearer (14) for the switch contacts (21) actuated by a switching spring (24) and a rotatable actuating lever (2a) and is arranged in such a way that it can be pivoted about an axis (A) on the actuating lever (2a) from the "on" position under the pressure of the switching spring (24) and on the breaking of the armature (9) of the electromagnet (12) and, when the actuating lever (2a) is rotated with the armature (9) applied to the electromagnet (12) about an actuating component (13) of the contact bearer (14) in the "off" position, can be pivoted from this position into the "on" position by counter-rotating the actuating lever (2a) and shifting the operating component (13) against the force of the switching spring (24).

IPC 1-7

H01H 71/56; **H01H 83/12**

IPC 8 full level

H01H 71/56 (2006.01); **H01H 73/42** (2006.01); **H01H 83/12** (2006.01)

CPC (source: EP)

H01H 71/56 (2013.01); **H01H 73/42** (2013.01)

Citation (search report)

See references of WO 9424689A1

Designated contracting state (EPC)

AT BE CH DE DK FR GB IT LI NL SE

DOCDB simple family (publication)

WO 9424689 A1 19941027; AT E145759 T1 19961215; AU 5884794 A 19941108; AU 678206 B2 19970522; CN 1036812 C 19971224; CN 1120872 A 19960417; DE 4311958 A1 19941020; DE 4311958 C2 19950420; DE 59401167 D1 19970109; DK 0693220 T3 19970505; EP 0693220 A1 19960124; EP 0693220 B1 19961127; FI 111766 B 20030915; FI 954797 A0 19951009; FI 954797 A 19951009; NO 306839 B1 19991227; NO 954024 D0 19951010; NO 954024 L 19951010; TR 28262 A 19960523

DOCDB simple family (application)

EP 9400125 W 19940119; AT 94905088 T 19940119; AU 5884794 A 19940119; CN 94191736 A 19940119; DE 4311958 A 19930410; DE 59401167 T 19940119; DK 94905088 T 19940119; EP 94905088 A 19940119; FI 954797 A 19951009; NO 954024 A 19951010; TR 37194 A 19940407