

Title (en)

Switches with automatic circuit breaking, especially in differential switches and circuit breakers.

Title (de)

Schalter mit Selbstunterbrechung, insbesondere Differentialschalter und Schutzschalter.

Title (fr)

Perfectionnements apportés aux interrupteurs à coupure automatique, notamment aux interrupteurs différentiels et disjoncteurs.

Publication

EP 0176402 A1 19860402 (FR)

Application

EP 85401678 A 19850823

Priority

FR 8413744 A 19840906

Abstract (en)

1. An electrical device with automatic circuit-breaking, comprising a base (27) of insulating material, a support (26) able to receive mechanical elements of the device and a break chamber (35) which is closed on all sides with the exception of an opening (36) for the passage of at least one movable contact (4) cooperating with a fixed contact (5) and which contains armatures (37) capable of creating a deionizing magnetic field on the separation movement of the contact studs (33, 34) or similar elements, of the fixed and movable contacts (5, 4), the support (26) and the base (27) being equipped with means for mutual pivoting, guiding and positioning (76, 77, 78, 79) such that the base (27) can be moved towards the support (26), brought into the final assembly position by pivoting in relation to the support (26) and held in this final position by means of a single screw (44), the whole being completed by a cover (47) surrounding the support (26) and mounted on the base (27), characterised in that the support (26) is a self-contained unit (26) of insulating material which receives the majority of the electrical and mechanical elements of the device before mounting on the base (27) and in which the break chamber (35) is formed, and in that the single screw (44) passes through the base (27) and is screwed tight in the unit (26).

Abstract (fr)

L'appareil comprend un bloc autonome (26) en matière isolante recevant la plupart des éléments mécaniques et électriques, et un socle (27) sur lequel le bloc se monte à pivotement, le maintien en position définitive étant assuré par une vis unique (44), l'ensemble étant complété par un capot.

IPC 1-7

H01H 71/02; **H01H 83/04**

IPC 8 full level

H01H 71/02 (2006.01); **H01H 83/04** (2006.01)

CPC (source: EP)

H01H 71/02 (2013.01); **H01H 71/0221** (2013.01); **H01H 83/04** (2013.01); **H01H 2071/0242** (2013.01)

Citation (search report)

- [YD] US 3178547 A 19650413 - BRUMFIELD JOHN C
- [Y] US 3143627 A 19640804 - KIESEL GEORGE W, et al
- [A] EP 0099786 A1 19840201 - MERLIN GERIN [FR]
- [A] EP 0008989 A1 19800319 - MERLIN GERIN [FR]
- [A] DE 2504007 A1 19750814 - SCHRACK ELEKTRIZITAETS AG E
- [A] EP 0017818 A1 19801029 - SIEMENS AG [DE]

Cited by

CN103474298A; FR2686453A1; AU2004265697B2; EP0325071A1; FR2626105A1; WO2005017935A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0176402 A1 19860402; **EP 0176402 B1 19890517**; AT E43199 T1 19890615; DE 3570321 D1 19890622; FR 2569901 A1 19860307; FR 2569901 B1 19861226

DOCDB simple family (application)

EP 85401678 A 19850823; AT 85401678 T 19850823; DE 3570321 T 19850823; FR 8413744 A 19840906