Title (en)

HAND-OPERATED LOW VOLTAGE POWER SWITCH

Publication

EP 0496938 A3 19930421 (DE)

Application

EP 91115344 A 19910911

Priority

CH 32391 A 19910201

Abstract (en)

[origin: EP0496938A2] The low-voltage power circuit breaker which has ON, OFF and TRIP positions is able to separate the contact pieces (1, 2) very quickly after tripping in response to an excess current. The excess current trip device in this case acts directly on a transmission lever (10) which on the one hand unlatches a switching-off latch (8) and on the other hand releases the support from two pivoting discs (14) which are spring-loaded in the switching-off direction. Thereafter, two mutually separated mechanical systems are accelerated. The first system, consisting only of the transmission lever (10), of the switching-off latch (8), of a switching-off lever (5) with an energy-storing switching-off spring (6) and of the moving contact piece (2) carries out the contact separation very quickly. The second system, which is now separated from the first system and contains all the other parts of the mechanical drive, is moved by the pivoting discs (14) which are spring-loaded in the switching-off direction. When the power circuit breaker is switched on and off by hand, the two systems are coupled to one another. Switching on by hand takes place independently of the operator's speed of operation, by releasing a switching-on latch (34) of the spring-loaded moving contact piece (2). <IMAGE>

IPC 1-7

H01H 71/56; H01H 71/50

IPC 8 full level

H01H 71/50 (2006.01); **H01H 71/56** (2006.01)

CPC (source: EP)

H01H 71/50 (2013.01); **H01H 71/56** (2013.01); H01H 2300/046 (2013.01)

Citation (search report)

- [A] EP 0062369 A2 19821013 - SACE SPA [IT]
- [AD] EP 0110010 A1 19840613 - SPRECHER & SCHUH AG [CH]
- [AD] US 3935409 A 19760127 - KOVAL LEONIDE P

Cited by

DE4304772C1; DE19917577A1; DE19917577B4

Designated contracting state (EPC)

AT BE DE DK ES FR GB GR IT LU NL SE

DOCDB simple family (publication)

EP 0496938 A2 19920805; **EP 0496938 A3 19930421**; **EP 0496938 B1 19950419**; AT E121561 T1 19950515; CH 681400 A5 19930315; DE 59105266 D1 19950524; DK 0496938 T3 19950731; ES 2071179 T3 19950616

DOCDB simple family (application)

EP 91115344 A 19910911; AT 91115344 T 19910911; CH 32391 A 19910201; DE 59105266 T 19910911; DK 91115344 T 19910911; ES 91115344 T 19910911