

Title (en)

Trip unit for circuit breaker or protective switches.

Title (de)

Auslöseeinheit für Leistungs-oder Schutzschalter.

Title (fr)

Déclencheur pour disjoncteurs ou interrupteurs de protection.

Publication

EP 0656641 A3 19970528 (DE)

Application

EP 94118386 A 19941123

Priority

DE 4341214 A 19931203

Abstract (en)

[origin: EP0656641A2] A trip unit (release unit) for a power circuit breaker or a protective switch, in particular as an undervoltage trip device which interacts with the switch drive mechanism in such a manner that, if the voltage is not sufficient, the trip unit unlatches the switch drive mechanism immediately, the trip unit having a trip coil 21, which is designed as a plunger-type armature coil and has a trip plunger 20 which is prestressed in the trip direction 30 by means of a compression spring and is inserted in a magnetic store housing, the end 2 of an arm 1b of a clamping lever 1, which is designed as a rocker, being pressed (during opening of the switch or when the locking mechanism is open) by a compression spring 5 into a cutout 32 which is located in a control cam 31 of the switch, such that the other arm 1a of the clamping lever 1 rotates the trip lever 12 in such a manner that the trip lever 12 is pivoted about its shaft 13 and, in consequence, presses the trip plunger 20 into the magnetic store housing 21. <IMAGE>

IPC 1-7

H01H 83/12

IPC 8 full level

H01H 83/12 (2006.01)

CPC (source: EP)

H01H 83/12 (2013.01)

Citation (search report)

- [A] US 5093643 A 19920303 - ALTENHOF JR JAMES N [US], et al
- [A] US 4097831 A 19780627 - JENCKS CHARLES L, et al
- [A] US 4246558 A 19810120 - ZUBATY MARTIN V, et al
- [DA] EP 0525691 A2 19930203 - KLOECKNER MOELLER GMBH [DE]
- [DA] GB 1558785 A 19800109 - WESTINGHOUSE ELECTRIC CORP

Cited by

CN103165357A; EP0813219A1; DE10145059C1; EP1298693A1; EP2610886A1; CN103187215A; EP2546855A1; US8749328B2; US10818450B2; US8686815B2

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