

Title (en)
Circuit-breaking switch, its release mechanism.

Title (de)
Schutzschalter, sein Auslösemechanismus.

Title (fr)
Disjoncteur, son mécanisme de déclenchement.

Publication
EP 0028958 A1 19810520 (FR)

Application
EP 80401516 A 19801024

Priority
FR 7926588 A 19791026

Abstract (en)
1. A circuit breaker of the type comprising, in a housing (10), a first contact (20A) which is fixed, a second contact (20B) which is mounted movably between a closed position and a tripped position and which is urged towards said tripped position by an opening spring (29), a closing and tripping actuating member (37) which is mounted movably between a closing position and a tripping position and which is urged towards said tripping position by a return spring (42), a locking mechanism (43) which is disposed between the opening and tripping actuating member (37) and the housing (10) and which is capable of releasably holding said closing and tripping actuating member (37) in the closing position, a latching mechanism which is disposed between the closing and tripping actuating member (37) and the movable contact (20B) and which comprises two latching members (32, 74) capable of releasably engaging with each other to hold the movable contact (20B) in the closed position, and at least one tripping member which is capable of causing disengagement from each other of said latching members (32, 74) whereby the movable contact (20B) is freed to move from its closed position to its tripped position, characterized in that one (32) of the latching members of the latching mechanism is an integral part of the opening spring (29) of the movable contact (20B).

Abstract (fr)
Il s'agit d'un disjoncteur dans lequel, entre la manette d'enclenchement et de déclenchement (37) et le contact mobile (20B), est établi un mécanisme d'accrochage comportant deux organes d'accrochage susceptibles de venir en prise de manière débrayable l'un avec l'autre pour maintien de l'ensemble en position d'enclenchement. Suivant l'invention, l'un de ces organes d'accrochage fait partie intégrante du ressort d'ouverture (29) associé au contact mobile (20B) et est constitué par la branche d'extrémité libre (32) de ce ressort. Application aux disjoncteurs.

IPC 1-7
H01H 71/58; **H01H 71/40**; **H01H 71/10**

IPC 8 full level
H01H 71/10 (2006.01); **H01H 71/40** (2006.01); **H01H 71/50** (2006.01); **H01H 71/58** (2006.01)

CPC (source: EP)
H01H 71/1027 (2013.01); **H01H 71/405** (2013.01); **H01H 71/50** (2013.01); **H01H 71/58** (2013.01); **H01H 2071/506** (2013.01)

Citation (search report)
• [AD] FR 2420839 A1 19791019 - LEGRAND SA [FR]
• [A] FR 2417177 A1 19790907 - LEGRAND SA [FR]
• [A] FR 2337414 A1 19770729 - ELLENBERGER & POENSGEN [DE]
• [A] US 4092623 A 19780530 - KIRKUP JOSEPH F
• [A] DE 1105968 B 19610504 - CONTINENTAL ELEKTRO IND AG

Cited by
FR2598254A1; EP0218497A1; FR2587829A1; EP0161968A1; FR2563375A1; EP0144799A3

Designated contracting state (EPC)
BE DE GB IT NL

DOCDB simple family (publication)
EP 0028958 A1 19810520; **EP 0028958 B1 19831109**; DE 3065550 D1 19831215; FR 2468991 A1 19810508; FR 2468991 B1 19811113

DOCDB simple family (application)
EP 80401516 A 19801024; DE 3065550 T 19801024; FR 7926588 A 19791026