

Title (en)
Remote control auxiliary block for an electric-circuit breaker.

Title (de)
Fernschalthilfseinheit eines elektrischen Schutzeschalters.

Title (fr)
Bloc auxiliaire de commande à distance d'un disjoncteur électrique.

Publication
EP 0161945 A1 19851121 (FR)

Application
EP 85400142 A 19850128

Priority
FR 8402323 A 19840214

Abstract (en)
1. Remote controlled low-voltage circuit breaker constituted by the association of an auxiliary remote opening and closing control block (10) connected with a circuit breaker main block (12) comprising a mechanism with a manual control handle and with an automatic fault trip device, said auxiliary block comprising : - a first remote opening electromagnet associated to a mechanical control link with the circuit breaker main block in order to transmit a trip order of said first electromagnet to the trip device of the mechanism, - a second remote closing electromagnet (34), the movable core (42) of which is connected with the mechanism of the main block by a movement transformation cinematic chain (46), - connecting terminals (22) of the remote control for the supply of said electromagnets, - and an interlock device (74) for the electrical and mechanical locking of the circuit breaker in open position, characterized by the fact that said cinematic chain comprises a transmission system (46) by cable (48) or belt, coupled between the movable core (42) and a drum (50) driving the handle (18) towards the stationary closing position of the circuit breaker when the control coil (36) of the closing electromagnet (34) is energized, and that the drum (50) cooperates with an elastic pull-off means (70) in order to pull back the movable core (42) into the separated position after de-energization of said coil (36).

Abstract (fr)
Disjoncteur télécommandé formé par l'association d'un bloc auxiliaire de commande d'ouverture et de fermeture à distance, accouplé à un bloc disjoncteur ayant un mécanisme à manette de commande manuelle et à déclencheur automatique sur défaut. Le bloc auxiliaire (10) comporte un électro-aimant de fermeture (34) dont le noyau mobile (42) coulissant est relié cinématiquement à la manette du mécanisme par l'intermédiaire d'un système de transmission (46) par câble (48). Le câble 48 coopère avec un tendeur (65) à galet de renvoi (62), et avec un tambour (50) d'entraînement de la manette. Un ressort (70) de rappel du tambour (50) ramène le noyau mobile (42) en position écartée après désexcitation de la bobine (36) de l'électro-aimant (34). Application: protection et commande à distance d'un circuit de distribution à basse tension.

IPC 1-7
H01H 83/20; **H01H 3/36**

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
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