

Title (en)
Operating device for a circuit breaker.

Title (de)
Betätigungsvorrichtung für Schalter.

Title (fr)
Commande de disjoncteur.

Publication
EP 0372449 A1 19900613 (FR)

Application
EP 89122314 A 19891204

Priority
FR 8816220 A 19881209

Abstract (en)
[origin: JPH02203058A] PURPOSE: To drive a high output circuit breaker by means of a low-cost low output driving mechanism by arranging a trigger circuit breaker driving mechanism, which is connected to a device having a disengagement first spring and an engagement second spring, and a recocking motor recocking both of the springs rotating a main shaft by 180 deg. in a releasing time. CONSTITUTION: When an opening command for a circuit breaker is generated from a device protecting a grid/line to which a circuit breaker is inserted, a trigger driving mechanism turns a shaft 2 in the direction f1. Then, a crank 22 drives a connection rod 24 and turns further while pulling a crank 29 releasing a stopper 20, and a spring 6 moves an arm 5, which is turns in the F1 direction by 180 deg. so as to open the circuit breaker by means of a shaft 4. When the trigger driving mechanism receives a closing command, the trigger shaft 2 is rotated in the f2 direction. Then, a cam 17 presses a wheel stopper 16 and is driven by a spring 12 after it passes a fixed center at the top, and an arm 11 turns the shaft 4 downward by 180 deg., so that the circuit breaker is engaged again. At the same time, the shaft 4 rotates the arm 5 so as to cock the spring 6 again.

Abstract (fr)
L'invention concerne une commande disjoncteur. Elle a pour objet une commande pour la manoeuvre d'un disjoncteur par la rotation d'arbre principal de manoeuvre (4) caractérisé en ce qu'elle comprend une commande de disjoncteur pilote (1) de puissance notablement inférieure à celle nécessitée pour la manoeuvre dudit disjoncteur, associée à un ensemble comprenant un premier ressort (6) de déclenchement, un second ressort d'enclenchement (12) et un moteur de réarmement (14) lesdits ressorts étant agencés pour entraîner par leur détente une rotation de 180 degrés dudit arbre principal (4), la détente des ressorts étant commandée par un mouvement d'un organe de sortie (2) de ladite commande pilote (1). Application à la manoeuvre des disjoncteurs.

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H01H 3/30

IPC 8 full level
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CPC (source: EP US)
H01H 3/30 (2013.01 - EP US); **H01H 3/3026** (2013.01 - EP US); **H01H 3/3031** (2013.01 - EP US); **H01H 2003/3094** (2013.01 - EP US); **Y10T 74/11** (2015.01 - EP US)

Citation (search report)
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• [Y] DE 469648 C 19281218 - VOIGT & HAEFFNER AG
• [A] DE 2841821 A1 19790405 - FUJI ELECTRIC CO LTD
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