Title (en)

ELECTROMECHANICAL SWITCH

Title (de)

ELEKTROMECHANISCHER SCHALTER

Title (fr)

COMMUTATEUR ELECTROMECANIQUE

Publication

EP 1709659 B1 20090923 (DE)

Application

EP 04802013 A 20041222

Priority

- AT 2004000451 W 20041222
- AT 572004 A 20040119

Abstract (en)

[origin: WO2005069335A1] Disclosed is an electromechanical switch, e.g. a circuit breaker and/or residual current circuit breaker, comprising at least two interrupters, each of which encompasses a movable and an associated stationary contact. The movable contacts (6) are pivotally retained on an actuating shaft (4) that moves cams (13) while being spring (18)-biased in the direction of the closed position of the respective cooperating contacts (10, 6). Each of said movable contacts (6) rests against a stop (20) of the actuating shaft (4) in a position of the actuating shaft (4), which corresponds to the open position of the cooperating contacts (10, 6), the actuating shaft (4) being twistable via an actuating lever (3). Each movable contact (6) is provided with an extension (15) that cooperates with blocking parts (8) which are pivotally retained and prevent the movable contacts (6) from moving across a given angle of rotation of the actuating shaft (4) while releasing the movable contacts (6) once a given angle of rotation of the actuating shaft (4) has been exceeded. In order to make such a switch comprising interrupters for outer conductors and interrupters for neutral conductors easy to produce, the blocking parts (8) of the interrupters used as interrupters (A) for outer conductors are pivotally retained on a shaft (7) that runs parallel to the actuating shaft (4), are biased counter to the blocking position thereof, and are embodied with both a section (14) blocking the movement of the movable contact (6) across the given angle of rotation of the actuating shaft (4) and a section (12) which can be controlled by a cam (13), said cam (13) being moved by the actuating shaft (4), while an interrupter that is used as an interrupter (N) for a neutral conductor is configured without the blocking part (8).

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