

Title (en)
ROTATION-ACTIVATED CIRCUIT-BREAKER WITH A LEADING AUXILIARY SWITCH

Title (de)
DREHBETÄTIGTER SCHUTZSCHALTER MIT VOREILENDEM HILFSSCHALTER

Title (fr)
DISJONCTEUR A COMMANDE EN ROTATION DOTE D'UN CONTACTEUR AUXILIAIRE A ACTION AVANCEE

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Application
EP 99907614 A 19990309

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Abstract (en)
[origin: WO9949490A1] The invention relates to a circuit-breaker which is activated by rotation and which has a leading auxiliary switch. When the circuit-breaker is switched on, the auxiliary contacts of the auxiliary switch (4) are activated temporally before the main contacts. The invention provides for an actuator element (6) containing a driving pinion (20) which is rotation-activated by an actuating mechanism (8) and a first gear rack (21) which is arranged in such a way that it can be moved longitudinally. Said first gear rack (21) engages with the drive pinion (20) and activates the auxiliary switch (4). A second gear rack (22) and an associated output pinion (30) are also provided, said second gear rack (22) being lag-connected to the first gear rack (21) in the direction of switching on (27). Said output pinion (30) is connected to an actuating shaft for the breaker mechanism of the circuit-breaker (2). The tooth pitch of the output pinion and the second gear rack (22) is greater than the tooth pitch of the drive pinion (20) and the first gear rack (21) to the extent that the overall angle of rotation of the drive pinion (20) and output pinion is constant for the entire switching-on movement of the actuating mechanism (8).

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