

Title (en)
ARC EXTINGUISHING CHAMBER FOR ELECTRICAL CIRCUIT BREAKER AND CIRCUIT BREAKER COMPRISING SUCH A CHAMBER

Title (de)
LICHTBOGEN-SCHALTAMMER FÜR EINEN LEISTUNGSSCHALTER, UND LEISTUNGSSCHALTER, DER EINE SOLCHE KAMMER UMFASST

Title (fr)
CHAMBRE DE COUPURE D'ARC POUR UN DISJONCTEUR ELECTRIQUE, ET DISJONCTEUR COMPORTANT UNE TELLE CHAMBRE

Publication
EP 3035363 B1 20170201 (FR)

Application
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Abstract (en)
[origin: US2016181034A1] The present invention relates to an arc extinguishing chamber of an electrical circuit breaker, comprising an arc-forming chamber enclosing a fixed contact (2) and a moving contact (1), which, at the time of their separation, form an arc between them, said forming chamber communicating with the input of a second so-called arc-quenching chamber comprising a stack of separators (4) extending parallel to one another, this moving contact (1) extending substantially at right angles to the plane of the separators, so as to pull an arc between the contacts upon their separation, the initial direction of which is substantially parallel to said separators, these separators having, on the side of the moving contact, an opening intended to facilitate the insertion of the arc, said circuit breaker comprising a magnetic release situated on the side of the fixed and moving contacts and a switching horn situated on the opposite side. This arc extinguishing chamber is characterized in that the form of the separators (4) varies progressively from one separator to the next, or by groups of identical separators from one group to another, or a mixture of both, in such a way that this form changes from the V having the largest opening surface area to the V having the smallest opening surface area, in the direction from the magnetic release to the switching horn (5).

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