

Title (en)

Pole for a low voltage current limiting circuit breaker and circuit breaker having the same

Title (de)

Pol für einen strombegrenzenden Niederspannungsleistungsschalter und damit ausgestalteter Leistungsschalter

Title (fr)

Pôle pour un disjoncteur électrique limiteur de basse tension de puissance et disjoncteur muni d'un tel pôle

Publication

EP 1146529 B1 20070502 (FR)

Application

EP 01410034 A 20010330

Priority

FR 0004545 A 20000410

Abstract (en)

[origin: US2001027961A1] A pole of a low-voltage limiting electrical power circuit breaker comprises a stationary contact defining a contact area, at least one movable contact finger and an arc extinguishing chamber. The finger is pivotally mounted on a movable support, itself linked to an opening mechanism. A spring biases the finger to a contact position. The lateral branches of a U-shaped magnetic circuit bound the contacts on each side, with interposed insulating side walls which form a passage between the contact area and the arc extinguishing chamber. This passage forms a constriction at the inlet of the chamber. The pole comprises in addition a receiving surface of an electric arc root, situated between the contact area and the constriction and electrically connected to the contact area and which is extended towards the inside of the chamber by a narrower part.

IPC 8 full level

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CPC (source: EP US)

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Cited by

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Designated contracting state (EPC)

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