

Title (en)
Miniature circuit breaker with improved dielectric characteristics.

Title (de)
Miniaturlastschalter mit dielektrischen Eigenschaften.

Title (fr)
Disjoncteur miniature à tenue diélectrique améliorée.

Publication
EP 0148058 A2 19850710 (FR)

Application
EP 84402497 A 19841205

Priority
FR 8320899 A 19831226

Abstract (en)
[origin: ES8604003A1] The miniature circuit breaker has a moulded insulating housing incorporating an arc chamber (38) containing a pair of separable contacts (20,22). The arc chamber (38) communicates with an arc extinction chamber (30) and is separated by an insulating partition wall (44) from the chamber containing the operating mechanism. - The partition wall (44) is shaped so that it follows the equipotential lines provided between the spaced breaker contacts (20,22) over at least part of its length. Pref. the partition wall (44) extends between the two walls of the arc chamber (38) on the side of the fixed contact (22) and the mobile contact (20) respectively.
[origin: ES8604003A1] The miniature circuit breaker has a moulded insulating housing incorporating an arc chamber (38) containing a pair of separable contacts (20,22). The arc chamber (38) communicates with an arc extinction chamber (30) and is separated by an insulating partition wall (44) from the chamber containing the operating mechanism. - The partition wall (44) is shaped so that it follows the equipotential lines provided between the spaced breaker contacts (20,22) over at least part of its length. Pref. the partition wall (44) extends between the two walls of the arc chamber (38) on the side of the fixed contact (22) and the mobile contact (20) respectively.

Abstract (fr)
La cloison (44) de séparation de la chambre de formation d'arc (38) du mécanisme d'un disjoncteur miniature est conformée de manière à suivre au moins sur une partie de sa longueur des lignes équipotentielles engendrées entre les contacts séparés (20, 22) du disjoncteur. Cette forme particulière de la cloison (44) permet d'accroître la tenue diélectrique de l'appareil après élimination d'un défaut.

IPC 1-7
H01H 73/12

IPC 8 full level
H01H 73/18 (2006.01); **H01H 9/34** (2006.01); **H01H 73/02** (2006.01); **H01H 73/06** (2006.01); **H01H 73/12** (2006.01)

CPC (source: EP US)
H01H 9/346 (2013.01 - EP US); **H01H 9/302** (2013.01 - EP US); **H01H 2009/305** (2013.01 - EP US)

Cited by
DE3908102A1; CN104201074A; FR2757675A1; EP0251160A3

Designated contracting state (EPC)
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EP 0148058 A2 19850710; **EP 0148058 A3 19850814**; **EP 0148058 B1 19890322**; AT E41718 T1 19890415; AU 3716884 A 19850704; AU 566392 B2 19871015; CA 1220248 A 19870407; DE 3477442 D1 19890427; ES 538790 A0 19860116; ES 8604003 A1 19860116; FR 2557354 A1 19850628; FR 2557354 B1 19860905; HK 93693 A 19930917; JP H0782798 B2 19950906; JP S60227332 A 19851112; US 4604507 A 19860805; ZA 849842 B 19850828

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EP 84402497 A 19841205; AT 84402497 T 19841205; AU 3716884 A 19841224; CA 470329 A 19841217; DE 3477442 T 19841205; ES 538790 A 19841218; FR 8320899 A 19831226; HK 93693 A 19930909; JP 27167084 A 19841222; US 68046584 A 19841211; ZA 849842 A 19841218