

Title (en)

Double arc runner for a circuit breaker arc guide chamber

Title (de)

Doppelte Lichtbogenlaufschiene für die Lichtbogenleitkammer eines Schutzschalters

Title (fr)

Tôle de conduction double pour chambre de conduction d'arc de disjoncteur

Publication

**EP 0649155 B1 19970402 (FR)**

Application

**EP 93440086 A 19931015**

Priority

EP 93440086 A 19931015

Abstract (en)

[origin: EP0649155A1] Single-pole circuit breaker with high breaking power, in a moulded insulating box formed by two half-shells fitted together, having a sole fitting onto a standardised rail, a peak revealing an operating lever linked to a mechanism for controlling opening and closing of the circuit breaker, and two narrow lateral faces enclosing the connection terminals (6, 7), an electric circuit linking the said terminals and consisting of a bimetallic thermal disconnection strip (8), of a fork (3) including (at A, B) two moving contacts in series interacting with a pair of fixed contacts, which are placed on either side of a central partition bounding two arc cutoff chambers and supporting a magnetic disconnection assembly (9), the said cutoff chambers each accommodating a stack of anti-ion plates (10, 11), characterised in that it comprises at least one component forming a loop (C) extending transversely to the moulded box, situated symmetrically on either side of the central partition in the two cutoff chambers, and making it possible in each cutoff chamber to obtain a primary arc runner (20, 23) and a secondary arc runner (21, 22) which are placed parallel and at a short distance from one another. <IMAGE>

IPC 1-7

**H01H 9/40**; **H01H 9/46**; **H01H 9/44**; **H01H 73/18**

IPC 8 full level

**H01H 9/40** (2006.01); **H01H 9/44** (2006.01); **H01H 9/46** (2006.01); **H01H 73/18** (2006.01)

CPC (source: EP)

**H01H 1/2066** (2013.01); **H01H 9/40** (2013.01); **H01H 9/44** (2013.01); **H01H 9/46** (2013.01); **H01H 73/18** (2013.01)

Cited by

CN114360980A; EP1220260A1; AT405112B; EP1548773A1; EP1615246A1; DE19734676A1; EP1205958A1; FR2814851A1; EP1548772A1; EP3483913A4; EP2541574A1; DE102011078524A1; CN102856135A; US7081596B2; WO02052598A1

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