

Title (en)
MINIATURE CIRCUIT BREAKER WITH ARCING-CONTACTS

Publication
EP 0047696 B1 19851204 (FR)

Application
EP 81401363 A 19810831

Priority
FR 8019600 A 19800909

Abstract (en)
[origin: EP0047696A2] 1. Miniature circuit-breaker with a narrow insulating housing (10) comprising connection terminals (16, 18) arranged on the narrow lateral sides of the housing, an operation device (14) located on the front side (12) and a fastening device of the housing located on the rear side (34), said insulating housing comprising separable contacts (20, 22) arranged in an arcing chamber, an arc extinction chamber (30) towards which the arc drawn during the contact separation is guided by arcing horns (46, 48) associated to said contacts (20, 22), a control mechanism (25) for the manual opening and closing of said contacts and an electromagnetic (28) or thermal (26) tripping device for an automatic opening control when a fault occurs, characterized in that the movable contact (42) is constituted by a monoblock piece made principally of copper, comprising two contact surfaces (20, 50) without pellet, a main contact surface (20) and an arcing contact surface (50) inserted between the main contact surface and the arcing horn (48) and that the stationary contact comprises a piece made principally of copper comprising a main contact surface (22), without pellet, and an elastic blade or piece (54, 56, 62) associated with the copper piece, which comprises an arcing contact surface (52), without pellet, and inserted between the main contact surface (22) and the arcing horn (46), the elastic blade or piece (54, 56, 62) being able to make a limited movement to accompany the movable contact (42) during its opening movement, in order to open the arcing contacts (50, 52) after the separation of the main contacts (20, 22).

IPC 1-7
H01H 9/38; **H01H 73/18**

IPC 8 full level
H01H 9/38 (2006.01); **H01H 73/18** (2006.01)

CPC (source: EP)
H01H 9/38 (2013.01); **H01H 73/18** (2013.01)

Citation (examination)
• FR 1307576 A 19621026 - LICENTIA GMBH
• DE 1219578 B 19660623 - LICENTIA GMBH

Cited by
DE19902715A1; FR2567323A1; DE9002197U1; EP0403328A1; FR2648613A1; EP0269530A1; FR2606547A1

Designated contracting state (EPC)
AT BE CH DE GB IT LI NL SE

DOCDB simple family (publication)
EP 0047696 A2 19820317; **EP 0047696 A3 19820324**; **EP 0047696 B1 19851204**; AT E16868 T1 19851215; DE 3173136 D1 19860116; ES 505260 A0 19820816; ES 8206905 A1 19820816; FR 2490002 A1 19820312; FR 2490002 B1 19830701

DOCDB simple family (application)
EP 81401363 A 19810831; AT 81401363 T 19810831; DE 3173136 T 19810831; ES 505260 A 19810907; FR 8019600 A 19800909