

Title (en)  
Miniature circuit breaker with switching of the neutral line and the phase line.

Title (de)  
Kleinschalter mit Abschaltung des Nulleiters und des Phasenleiters.

Title (fr)  
Disjoncteur miniature à coupure du neutre et de la phase.

Publication  
**EP 0045672 A1 19820210 (FR)**

Application  
**EP 81401078 A 19810706**

Priority  
FR 8017429 A 19800806

Abstract (en)  
1. Miniature single pole and neutral circuit breaker having a narrow molded case (10) with two opposite small front (18) and rear (16) faces equipped respectively with an operating handle (20) and a fixing device and two opposite small connecting faces (22, 28) each having a phase terminal (26, 32) and a neutral terminal (24, 30) juxtaposed symmetrically on both sides of a case medium plane (34) perpendicular to said small faces (16, 18, 22, 28), said case containing phase contacts (48, 64; 50, 66) inserted in a phase circuit connecting said phase terminals (26, 32), neutral contacts (36, 40) inserted in a neutral circuit connecting the neutral terminals (24, 30) and an operating mechanism of said contacts which may be actuated on the one hand by said handle (20) and on the other hand by an electromagnetic tripping device (108), characterized in that said phase contacts comprise a fixed contact pair (48, 50) placed against the rear face (16) and being juxtaposed symmetrically on both sides of said medium plane (34), constituted in the breaking zone by an insulating wall (34), and a fork-shaped movable contact (68) straddled on said wall and cooperating with said fixed contact pair (48, 50) for connecting the latter in the closed position parallel to the rear face (16), that a pair of interrupting chambers (56, 58) is disposed symmetrically of said insulating wall (34) aligned with the movable contact (68) for extinguishing the arcs drawn at the opening of said phase contacts, that the electromagnetic tripping device (108) is located between the movable phase contact (48, 64; 50, 66) and said front face (18) and that said neutral contacts (36, 40) are disposed between said interrupting chambers (56, 58) and the front face (18).

Abstract (fr)  
L'invention est relative à un disjoncteur miniature unipolaire et neutre comportant un contact mobile de phase en fourche coopérant avec deux contacts fixes associés chacun à une chambre de coupure (58). Les contacts de neutre (36, 40) sont logés dans une zone intercalaire entre la manette de commande (20) et les chambres de coupure (56, 58). Le mécanisme de commande du contact de phase en fourche (68) occupe toute la largeur du boîtier (10) et comprend une bielle brisable (74) coopérant avec un verrou (84) soumis à l'action d'une bilame et d'un déclencheur électromagnétique (108).

IPC 1-7  
**H01H 71/00**; **H01H 73/04**

IPC 8 full level  
**H01H 71/00** (2006.01); **H01H 73/04** (2006.01)

CPC (source: EP)  
**H01H 1/2066** (2013.01); **H01H 71/002** (2013.01)

Citation (search report)  
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• DE 1180453 B 19641029 - CONTINENTAL ELEKTRO IND AG  
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• DE 960116 C 19570314 - LICENTIA GMBH  
• DE 830974 C 19520211 - STOTZ KONTAKT GMBH

Cited by  
EP0418754A3; EP0599800A1; EP0564380A1; FR2689309A1; EP0569650A1

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

DOCDB simple family (publication)  
**EP 0045672 A1 19820210**; **EP 0045672 B1 19841003**; AT E9750 T1 19841015; DE 3166466 D1 19841108; ES 504527 A0 19820816; ES 8206909 A1 19820816; FR 2488440 A1 19820212; FR 2488440 B1 19830225

DOCDB simple family (application)  
**EP 81401078 A 19810706**; AT 81401078 T 19810706; DE 3166466 T 19810706; ES 504527 A 19810804; FR 8017429 A 19800806