

Title (en)

Electrical switch device, especially a protective power circuit breaker.

Title (de)

Elektrisches Schaltgerät, insbesondere Leitungsschutzschalter.

Title (fr)

Appareil de commutation électrique, notamment disjoncteur de puissance et de protection.

Publication

EP 0183145 A2 19860604 (DE)

Application

EP 85114538 A 19851115

Priority

DE 3443122 A 19841127

Abstract (en)

1. Electrical switching device, in particular automatic cut-out, having a housing with two lateral housing walls (10, 11), having a fixed and a movable contact element (13, 12) and having an arc quench chamber with arc quenching laminations (19), which is laterally delimited at least in the region of the contact point (12, 13) by two side wall elements (20, 23), characterized in that one side wall element (20) is formed by a wall projection formed on one housing wall (10) and extending up to the fixed and movable contact element (13, 12) and adjoining the latter directly, which wall projection closes off to the front against the arcing direction the region of the bundle of arc quenching laminations (18) between the contact point (12, 13) and that housing wall (10) having the wall projection, and in that the other side wall element (23) is formed by a wall panel (23) arranged at a distance to the other housing wall (11), thus leaving a channel (25) free between, which wall panel directly adjoins the fixed and movable contact element (13, 12) on one side and delimits to the front the region of the bundle of arc quenching laminations (18) between the contact point and the other housing wall (11) with the exception of the region of the channel (25), likewise against the arcing direction.

Abstract (de)

Zur Unterbrechung von Stromkreisen, insbesondere in Leitungsschutzschaltern, sind ein Festkontaktstück (13), ein bewegliches Kontaktstück (12) und eine Lichtbogenlöschkammer (18) vorgesehen, die Lichtbogenlöschbleche (19) aufweist. Die Lichtbogenlöschkammer ist dabei im Bereich der Kontaktstelle von zwei Wandelementen (20,23) begrenzt, von denen zur Verbesserung des Löschverhaltens das eine Wandelement in Abstand zu der benachbarten Gehäusewand (11) angeordnet ist und dazwischen einen Kanal bildet, so daß eine Rückströmung durch diesen Kanal entgegen der Lichtbogenaufrichtung erzeugt wird, die zu einer Verbesserung des Löschverhaltens führt.

IPC 1-7

H01H 73/18

IPC 8 full level

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CPC (source: EP)

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Cited by

AU676934B2; EP1876617A1; EP0713232A1; FR2727240A1; EP0817224A1; FR2750795A1; EP1152440A4; WO9512888A1

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