

Title (en)  
Safety circuit breaker

Title (de)  
Sicherheits-Stromkreisunterbrecher

Title (fr)  
Coupe-circuit de sécurité

Publication  
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Application  
**EP 98121837 A 19981117**

Priority  
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Abstract (en)  
The present invention relates to a safety circuit breaker which mechanically interrupts a circuit upon a certain driving signal, if a fault current has occurred and if the normally provided means for cutting off the circuit upon detection of such a fault current fails. A circuit breaker is disclosed that employs a fuse wire (3). In a casing (10) a fixed piece (2) and a mobile piece (1) are provided. Furthermore, there are provided a fixed electrical contact (4) being connected with a wire from outside and a mobile electrical contact (5) being connected with another wire leading outside the casing (10). The mobile electrical contact is movable between a closed position and an open position. In the closed position the mobile electrical contact (5) is in contact with the fixed electrical contact (4). In the open position, the mobile electrical contact (5) is disconnected from the fixed electrical contact (4). This is caused by the movement of the mobile piece (1) which serves as a support plane of the mobile electrical contact (5). Furthermore, the mobile electrical contact (5) is urged against the mobile piece (1) by an urging means (6). If the fuse wire (3) which clamps the fixed piece (1) and the movable piece (2) together, is broken, the mobile piece (1) is urged away from the fixed piece (2) and takes its open position and the mobile electrical contact (5) loses its contact to the fixed electrical contact and a circuit is broken. <IMAGE>

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IPC 8 full level  
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Citation (search report)  
• [Y] US 2470701 A 19490517 - LEONARD JACOBS  
• [Y] US 2696539 A 19541207 - PETERSON EDWARD W  
• [Y] DE 19542690 A1 19970522 - AEG NIEDERSPANNUNGSTECH GMBH [DE]

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