

Title (en)

CIRCUIT BREAKER PROTECTING ELECTRIC CIRCUITS IN ROAD VEHICLES

Title (de)

SCHUTZSCHALTER ZUR ABSICHERUNG VON STROMKREISEN IN STRASSENFAHRZEUGEN

Title (fr)

DISJONCTEUR DE PROTECTION DE CIRCUITS ELECTRIQUES DE VEHICULES ROUTIERS

Publication

EP 1141987 A1 20011010 (DE)

Application

EP 99968780 A 19991105

Priority

- DE 19856707 A 19981209
- EP 9908501 W 19991105

Abstract (en)

[origin: US6590489B1] A circuit breaker for protecting electrical circuits, particularly in motor vehicles, includes a flat housing, which comprises an insulating material and has two adjacent flat plugs. A bimetal that is embodied as a snap-action element and is fixed to a flat plug serves in contacting the flat plugs together, with the contact end of the bimetal being located in an overlapping position with the counter-contact. During a contact opening as stipulated by an overcurrent, a contact separator automatically travels into the space between the opened contacts, and can be returned from its contact-separating position by the external exertion of a force acting counter to the spring pressure. A manual release device, which diverts the contact end of the bimetal from its contacting position into its contact-opening position, protrudes from the breaker housing.

IPC 1-7

H01H 77/04; **H01H 73/30**

IPC 8 full level

H01H 9/32 (2006.01); **H01H 37/02** (2006.01); **H01H 37/54** (2006.01); **H01H 73/10** (2006.01); **H01H 73/18** (2006.01); **H01H 73/24** (2006.01); **H01H 73/30** (2006.01); **H01H 77/04** (2006.01); **H01H 71/12** (2006.01)

CPC (source: EP KR US)

H01H 9/32 (2013.01 - EP US); **H01H 73/22** (2013.01 - KR); **H01H 73/303** (2013.01 - EP US); **H01H 71/128** (2013.01 - EP US); **H01H 2071/088** (2013.01 - EP US)

Citation (search report)

See references of WO 0034971A1

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US 6590489 B1 20030708; AT E226357 T1 20021115; CN 1184660 C 20050112; CN 1324493 A 20011128; DE 19856707 A1 20000621; DE 59903125 D1 20021121; EP 1141987 A1 20011010; EP 1141987 B1 20021016; JP 2002532826 A 20021002; JP 4205862 B2 20090107; KR 100532791 B1 20051202; KR 20010089387 A 20011006; WO 0034971 A1 20000615

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