

Title (en)

A resistor capable of acting as a circuit breaker.

Title (de)

Widerstand, der imstande ist, als Überlastschalter zu agieren.

Title (fr)

Résistance capable d'agir comme un disjoncteur.

Publication

EP 0507465 A2 19921007 (EN)

Application

EP 92302250 A 19920316

Priority

US 67960391 A 19910402

Abstract (en)

An apparatus and method by which a flat film-type resistor (10) is intentionally caused to thermal-shock fracture (Fig. 1) in response to a predetermined high-voltage overload condition. The resistor includes flat film-type resistor coatings (28,29) connected to traces (16,18,52). A stressed spring wire (71,72) is mounted on such film-type resistor and connected in circuit with it. A predetermined solder (76) and temperature gradient are employed to hold the spring wire in bent condition until the solder (76) melts, whereupon the spring (71,72) flexes and the circuit breaks. Heatsink portions (43-46) are provided in the circuit board for such resistor and receive pins (33-40) thereof. <IMAGE>

IPC 1-7

H01C 7/12; **H01H 85/046**

IPC 8 full level

H01C 1/14 (2006.01); **H01C 7/12** (2006.01); **H01C 7/13** (2006.01); **H01C 13/00** (2006.01); **H01C 13/02** (2006.01); **H01H 85/02** (2006.01); **H01H 85/08** (2006.01); **H01H 85/00** (2006.01); **H01H 85/046** (2006.01); **H01H 85/048** (2006.01); **H01H 85/36** (2006.01)

CPC (source: EP)

H01C 7/12 (2013.01); **H01C 7/13** (2013.01); **H01H 85/0073** (2013.01); **H01H 85/046** (2013.01); **H01H 85/048** (2013.01); **H01H 85/36** (2013.01)

Cited by

EP0682347A3; EP0608077A3; US5594407A

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AT BE CH DE DK ES FR GB GR IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0507465 A2 19921007; **EP 0507465 A3 19930203**; **EP 0507465 B1 19981202**; AT E174154 T1 19981215; DE 69227719 D1 19990114; DE 69227719 T2 19990422; EP 0789381 A1 19970813; ES 2124242 T3 19990201; JP H05101913 A 19930423; JP H0821489 B2 19960304

DOCDB simple family (application)

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