

Title (en)

Polymeric PTC composition and circuit protection device made from the same

Title (de)

Polymer-PTC-Zusammensetzung und damit hergestellte Schaltungsschutzeinrichtung

Title (fr)

Composition polymère CTP et dispositif de protection de circuit fabriqué à partir de cette composition

Publication

**EP 0866471 B1 20060816 (EN)**

Application

**EP 97116074 A 19970916**

Priority

- JP 4568197 A 19970228
- JP 4568497 A 19970228

Abstract (en)

[origin: EP0866471A1] A polymeric PTC composition in which conductive particles having a melting point of at least 2000 DEG C are dispersed in an organic polymer, and a circuit protection device having a PTC element consisting of the PTC composition and at least two electrodes which are pressure welded to the PTC element and electrically connected thereto are presented. The composition and the device of the present invention exhibit a low resistance and good conductivity under normal operating conditions, and the conductive particles are not melted to locally form a conductive circuit even under large electric current and high voltage, but the resistance rises due to the PTC characteristics to protect the circuit against the over-current.

IPC 8 full level

**H01C 7/02** (2006.01); **H01C 1/14** (2006.01)

CPC (source: EP)

**H01C 7/027** (2013.01)

Cited by

EP0932166A1; EP1035606A4; EP1071099A3; EP1100135A4

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0866471 A1 19980923**; **EP 0866471 B1 20060816**; DE 69736512 D1 20060928; KR 19980069976 A 19981026; TW 344828 B 19981111

DOCDB simple family (application)

**EP 97116074 A 19970916**; DE 69736512 T 19970916; KR 19970049846 A 19970930; TW 86113346 A 19970913