

Title (en)  
Protection element

Title (de)  
Schutzelement

Title (fr)  
Élément de protection

Publication  
**EP 0923086 B1 20040324 (DE)**

Application  
**EP 98811171 A 19981126**

Priority  
DE 19754976 A 19971211

Abstract (en)  
[origin: EP0923086A1] The critical temperature (T<sub>c</sub>) is below the switching temperature. Device for protecting a current consumer from overload has a resistor, between 2 contact terminals, the electrical resistance of which increases suddenly when a certain switching temperature is reached. This consists of a polymer matrix, a first filler powder of conductive material and a second filler powder containing phase transition material(s) undergoing a phase transition at a critical temperature (T<sub>c</sub>) at which transition heat is taken up.

IPC 1-7  
**H01C 7/02**; **H01C 7/13**

IPC 8 full level  
**H01C 7/02** (2006.01); **H01C 7/13** (2006.01)

CPC (source: EP US)  
**H01C 7/027** (2013.01 - EP US); **H01C 7/13** (2013.01 - EP US)

Cited by  
EP1253603A4; WO2010046062A3

Designated contracting state (EPC)  
AT DE ES FI FR GB NL SE

DOCDB simple family (publication)  
**EP 0923086 A1 19990616**; **EP 0923086 B1 20040324**; AT E262726 T1 20040415; CN 1219742 A 19990616; CN 1222956 C 20051012; DE 19754976 A1 19990617; DE 59811048 D1 20040429; US 6396383 B1 20020528

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**EP 98811171 A 19981126**; AT 98811171 T 19981126; CN 98117062 A 19981210; DE 19754976 A 19971211; DE 59811048 T 19981126; US 20847998 A 19981210