

Title (en)

Pillar-like, high current stable resistor, especially varistor based on metal oxide, and manufacturing process of such a resistor

Title (de)

Säulenförmig ausgebildeter, hochstromfester Widerstand, insbesondere Varistor auf der Basis eines Metalloxids, und Verfahren zur Herstellung eines solchen Widerstands

Title (fr)

Résistance stable à haut courant à piliers, plus particulièrement varistor à base d'oxyde métallique et procédé de fabrication de cette résistance

Publication

**EP 0859377 A3 19981209 (DE)**

Application

**EP 97810970 A 19971211**

Priority

DE 19701243 A 19970116

Abstract (en)

[origin: EP0859377A2] The columnar resistor is particularly a varistor with a metal oxide base. A cylindrical resistor body of ceramic material is arranged between two parallel planar electrodes. The resistive body can be charged in an electric field of predetermined magnitude with at least one high energy current pulse of defined amplitude, shape and duration. The length of the resistor defined by the distance between the two electrodes is smaller than a tolerable upper threshold length. The threshold length is determined by the strength of the pulse charge and the stability of the ceramic material. On charging with the current pulse(s), damage to the ceramic resistor body is prevented.

IPC 1-7

**H01C 7/10**

IPC 8 full level

**H01C 7/108** (2006.01); **H01C 7/12** (2006.01)

CPC (source: EP US)

**H01C 7/108** (2013.01 - EP US); **H01C 7/12** (2013.01 - EP US); **Y10T 29/49082** (2015.01 - EP US)

Citation (search report)

[DA] EP 0196370 A1 19861008 - BBC BROWN BOVERI & CIE [CH]

Designated contracting state (EPC)

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DOCDB simple family (publication)

**DE 19701243 A1 19980723**; EP 0859377 A2 19980819; EP 0859377 A3 19981209; US 6342828 B1 20020129

DOCDB simple family (application)

**DE 19701243 A 19970116**; EP 97810970 A 19971211; US 162997 A 19971231