

Title (en)

Material composition having a core-shell microstructure used for a varistor

Title (de)

Für einen Varistor verwendete Materialzusammensetzung mit Kern-Schalen-Mikrostruktur

Title (fr)

Composition de matériau doté d'une microstructure noyau-enveloppe utilisé pour un varistor

Publication

**EP 1993108 A1 20081119 (EN)**

Application

**EP 07108464 A 20070518**

Priority

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Abstract (en)

A material composition having a core-shell microstructure suitable for manufacturing a varistor having outstanding electrical properties, the core-shell microstructure of the material composition at least comprising a cored-structure made of a conductive or semi-conductive material and a shelled-structure made from a glass material to wrap the cored-structure, and electrical properties of the varistors during low temperature of sintering process can be decided and designated by precisely controlling the size of the grain of the cored-structure and the thickness and insulation resistance of the insulating layer of the shelled-structure of material composition.

IPC 8 full level

**H01C 7/105** (2006.01); **H01C 7/108** (2006.01); **H01C 7/112** (2006.01); **H01C 7/115** (2006.01); **H01C 7/118** (2006.01)

CPC (source: EP)

**H01C 7/105** (2013.01); **H01C 7/108** (2013.01); **H01C 7/112** (2013.01); **H01C 7/115** (2013.01)

Citation (search report)

- [X] US 3725836 A 19730403 - AOKI M, et al
- [X] EP 0115050 A1 19840808 - TOSHIBA KK [JP]

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Designated extension state (EPC)

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