

Title (en)
METHOD FOR PRODUCTION OF CERAMIC SEMICONDUCTORS MADE FROM METAL OXIDES SUCH AS TIN IN PARTICULAR FOR VARISTORS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON KERAMIKHALBLEITERN AUS METALLOXIDEN WIE ZINN, INSBESONDERE FÜR VARISTOREN

Title (fr)
PROCEDE DE PREPARATION DE CERAMIQUES SEMI-CONDUCTRICES CONSTITUEES D'OXYDES DE METAUX TEL QUE L'ETAIN EN PARTICULIER POUR LES VARISTANCES

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Application
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Abstract (en)
[origin: WO2006077355A1] The invention relates to a method for production of a ceramic semiconductor, preferably made from at least one base metal oxide which is a simple oxide of a single base metal and at least one doping metal oxide, said ceramic having a porosity less than or equal to 5 %, preferably less than or equal to 3 %, more preferably less than or equal to 1 %, in which the following successive steps are carried out: a powder is provided made up of one or more base metal oxides, said oxides being simple oxides of a single base metal, one or more on base metals in a non-oxidised metallic form, one or more oxides of doping metals and optionally one or more doping metals in a non-oxidised metallic form, said powder is moulded and the moulded powder is sintered. Said ceramic semiconductor may be used for the production of non-linear resistances with regard to voltage and particularly of varistors.

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