

Title (en)

ELECTRIC COMPONENT AND METHOD FOR PRODUCING AN ELECTRIC COMPONENT

Title (de)

ELEKTRISCHES BAUTEIL UND VERFAHREN ZUR HERSTELLUNG EINES ELEKTRISCHEN BAUTEILS

Title (fr)

COMPOSANT ÉLECTRIQUE ET PROCÉDÉ DE FABRICATION D'UN COMPOSANT ÉLECTRIQUE

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Application

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Abstract (en)

[origin: WO2010097099A1] The invention relates to an electric component comprising an electric conductor, wherein inside the electric conductor a current path having a current flow direction is specified because of the ends of the electric conductor being connected to two electric connection points inside the electric component. The invention further relates to a method for producing an electric component having a conductor. By using a mixture made of carbon nanostructures having a preferred orientation with respect to the electric conductivity along the current flow direction, and a mixture made of nanostructures having a preferred orientation with respect to the thermal conductivity on at least one of the outside surfaces of the electric component, the electric component, in particular a transformer coil, can be produced in a more compact fashion, wherein at the same time sufficient thermal conductivity of the electric component is ensured.

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