

Title (en)
METHOD FOR PRODUCING A COMPONENT OF AN ELECTRIC MOTOR, ELECTRIC MOTOR COMPONENT AND ELECTRIC MOTOR

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES BAUTEILS EINES ELEKTROMOTORS, ELEKTROMOTORBAUTEIL UND ELEKTROMOTOR

Title (fr)
PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT CONSTITUTIF D'UN MOTEUR ÉLECTRIQUE, ÉLÉMENT CONSTITUTIF D'UN MOTEUR ÉLECTRIQUE ET MOTEUR ÉLECTRIQUE

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Abstract (en)
[origin: WO2021148080A1] The invention relates to the production of a component, in particular a stator or a rotor, of an electric motor, in which a layer structure is generated as follows using additive manufacturing: alternate additive production of different layers (3, 4), namely a layer (3) of a first type made from a filament, containing plastic and metal, and a layer (4) of a second type made from a filament, containing plastic and ceramic; heating the layer assembly (2) produced from the different layers (3, 4) to a first temperature (T1), at which plastic is removed from the layers (3, 4); further heating of the layer assembly (2), whereby the metal of the layer (3) of the first type is sintered and an electrically insulating ceramic layer is obtained from the layer (4) of the second type. The invention also relates to a subsequently produced electric motor component and an electric motor.

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