

Title (en)
SYSTEM AND METHOD FOR MAKING A STRUCTURED MAGNETIC MATERIAL WITH INTEGRATED PARTICLE INSULATION

Title (de)
SYSTEM UND VERFAHREN ZUR HERSTELLUNG EINES STRUKTURIERTEN MAGNETISCHEN MATERIALS MIT INTEGRIERTER PARTIKELISOLIERUNG

Title (fr)
SYSTÈME ET PROCÉDÉ DE FABRICATION D'UN MATÉRIAU MAGNÉTIQUE STRUCTURÉ AVEC ISOLATION DE PARTICULES INTÉGRÉE

Publication
EP 2969315 B1 20201202 (EN)

Application
EP 14769666 A 20140305

Priority
• US 201313836615 A 20130315
• US 2014020736 W 20140305

Abstract (en)
[origin: WO2014149761A2] A system for forming a soft magnetic bulk material of a predetermined shape from a magnetic material and a source of insulating material. The systems has a heating device; a deposition device; a support configured to support the soft magnetic bulk material of the predetermined shape; and a mask configured as a negative of at least a portion of the predetermined shape. The heating device heats the magnetic material to form particles having a softened state and wherein the deposition device deposits successive layers of particles of the magnetic material in the softened state on the support with the mask located between the deposition device and the support. The mask is indexed to a position relative to the support upon deposition of the successive layers. The mask selectively blocks the successive layers of particles of the magnetic material in the softened state from being deposited on the support forming the soft magnetic bulk material of a predetermined shape on the support.

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