

Title (en)

METHOD FOR MAKING A STRUCTURED MAGNETIC MATERIAL WITH INTEGRATED PARTICLE INSULATION

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES STRUKTURIERTEN MAGNETISCHEN MATERIALS MIT INTEGRIERTER PARTIKELISOLIERUNG

Title (fr)

PROCÉDÉ DE FABRICATION D'UN MATÉRIAU MAGNÉTIQUE STRUCTURÉ AVEC ISOLATION DE PARTICULES INTÉGRÉE

Publication

**EP 3792944 A1 20210317 (EN)**

Application

**EP 20203613 A 20140305**

Priority

- US 201313836615 A 20130315
- EP 14769666 A 20140305
- US 2014020736 W 20140305

Abstract (en)

A system for forming a soft magnetic bulk material of a predetermined shape from a magnetic material and a source of insulating material, including a heating device; a deposition device; a support, 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.

IPC 8 full level

**H01F 41/02** (2006.01); **B22D 23/00** (2006.01); **C23C 4/01** (2016.01); **C23C 4/123** (2016.01); **H01F 1/24** (2006.01)

CPC (source: EP)

**B05B 1/083** (2013.01); **B05B 7/224** (2013.01); **C23C 4/01** (2016.01); **C23C 4/08** (2013.01); **C23C 4/131** (2016.01); **C23C 24/04** (2013.01); **H01F 1/24** (2013.01); **H01F 41/0246** (2013.01)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (application)

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