

Title (en)

METHOD FOR THE POWDER-METALLURGICAL PRODUCTION OF MAGNETIC CORES

Title (de)

VERFAHREN ZUR PULVERMETALLURGISCHEN HERSTELLUNG VON MAGNETKERNEN

Title (fr)

PROCÉDÉ POUR LA FABRICATION DE NOYAUX MAGNÉTIQUES PAR MÉTALLURGIE DES POUDRES

Publication

EP 2929963 A4 20160907 (EN)

Application

EP 13859820 A 20131205

Priority

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Abstract (en)

[origin: EP2929963A1] The invention relates to a method for the powder-metallurgical production of magnetic cores, characterised in that it comprises (i) a first step of amorphisation of a mixture of magnetically soft powders by mechanical grinding; and (ii) a second step of FAST (Field Assisted Sintering Techniques) electrical consolidation of the powder amorphised in the first step.

IPC 8 full level

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Citation (search report)

- [XII] EP 1593749 A1 20051109 - JAPAN SCIENCE & TECH CORP [JP]
- [II] EP 0899753 A1 19990303 - ALPS ELECTRIC CO LTD [JP], et al
- [A] US 2007183921 A1 20070809 - FURUYA YASUBUMI [JP], et al
- See references of WO 2014087031A1

Cited by

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