

Title (en)
NANOCRYSTAL ALLOY MAGNETIC CORE, MAGNETIC CORE UNIT, AND METHOD FOR MANUFACTURING NANOCRYSTAL ALLOY MAGNETIC CORE

Title (de)
MAGNETKERN AUS EINER NANOKRISTALLINEN LEGIERUNG, MAGNETKERNEINHEIT UND VERFAHREN ZUR HERSTELLUNG EINES MAGNETKERNES AUS EINER NANOKRISTALLINEN LEGIERUNG

Title (fr)
NOYAU MAGNÉTIQUE EN ALLIAGE NANOCRISTALLIN, UNITÉ DE NOYAU MAGNÉTIQUE ET PROCÉDÉ DE FABRICATION DE NOYAU MAGNÉTIQUE EN ALLIAGE NANOCRISTALLIN

Publication
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Application
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Abstract (en)
[origin: EP3522186A1] A nanocrystalline alloy magnetic core production method for nanocrystallization of a magnetic core formed of a wound or layered amorphous alloy ribbon by a heat treatment, includes a primary heat treatment step of performing a primary heat treatment in the absence of an applied magnetic field to increase a temperature of the magnetic core from a temperature that is lower than a crystallization onset temperature of the magnetic core to a temperature that is higher than or equal to the crystallization onset temperature, and a secondary heat treatment step performed after the primary heat treatment step. The secondary heat treatment step includes a secondary temperature maintaining step of maintaining the temperature constant at a temperature that is higher than or equal to 200 °C and lower than the crystallization onset temperature, in the absence of an applied magnetic field, and a secondary temperature decreasing step of, after the secondary temperature maintaining step, decreasing the temperature in the presence of a magnetic field applied in a direction perpendicular to a magnetic path.

IPC 8 full level
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Cited by
CN113990597A; US11562856B2; US11450479B2; US11749430B2

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