

Title (en)

METHOD OF MANUFACTURING AN AMORPHOUS MAGNETIC CORE AND AMORPHOUS MAGNETIC CORE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES AMORPHEN MAGNETKERNS UND AMORPHER MAGNETKERN

Title (fr)

PROCÉDÉ POUR FABRIQUER UN NOYAU MAGNÉTIQUE AMORPHE ET NOYAU MAGNÉTIQUE AMORPHE

Publication

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Application

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Priority

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Abstract (en)

[origin: EP3035351A1] The invention relates in general to manufacturing of an improved amorphous metal magnetic core (1) or (1') for electrical inductive apparatus such as transformers and reactors. A method of manufacturing an amorphous magnetic core comprises assembling a plurality of lamination layers (6, 6') made of amorphous metal strips to designing a core shape, having two parallel faces (9) or side surfaces (9') formed by edges of the lamination layers (6,6'). The method further comprises the step of introducing between the neighboring lamination layers (6,6') of the core (1,1') an organometallic binder (11) for receiving a number of film layers (8,8') of the binder. Next the step of binding together the lamination layers with the film layers is used by annealing the core at a temperature 350-400°C and in a magnetic field having value above 800A/m. The lamination layers (6,6') are bonded with the film layers (8,8') have capabilities for audible noise reduction when the core is under operating condition.

IPC 8 full level

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CN112635176A; CN107273628A; CN111091967A; CN111785489A

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