

Title (en)

METHOD FOR MANUFACTURING AN OBJECT OF SOFT-MAGNETIC MATERIAL BY BONDING TOGETHER A MASS OF POWDER GRAINS

Publication

EP 0088992 A3 19841219 (EN)

Application

EP 83102285 A 19830309

Priority

SE 8201678 A 19820317

Abstract (en)

[origin: EP0088992A2] A method for manufacturing an object of soft-magnetic material by bonding together a mass of powder grains of iron-based soft-magnetic material in the form of pure iron or in the form of iron containing silicon, aluminium and/or titanium. The grains are provided either with a coating (2) containing iron oxide chemically bonded to the grains and, at least in those cases where the iron-based material consists of pure iron, containing in addition thereto an oxide of silicon, aluminium and/or titanium, or the grains are provided with a coating (2) containing a reaction product of iron oxide, which oxide is chemically bonded to the grains, and an oxide of silicon, aluminium and/or titanium. The grains provided with said coating are subjected to an isostatic pressing at a temperature of at most 900 DEG C and at a pressure necessary for forming a coherent, compact body of the powder mass. The coating preferably has a thickness of 0.01 - 0.5 mu m.

IPC 1-7

H01F 1/24; **H01F 1/33**; **B22F 3/14**

IPC 8 full level

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CPC (source: EP US)

B22F 1/16 (2022.01 - EP US); **B22F 3/15** (2013.01 - EP); **H01F 1/24** (2013.01 - EP US); **H01F 1/33** (2013.01 - EP)

Citation (search report)

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