

Title (en)

Magnetic body formed from encapsulated ferromagnetic particles and method for the manufacture thereof.

Title (de)

Magnetkörper aus eingebetteten ferromagnetischen Partikeln und Herstellungsverfahren dafür.

Title (fr)

Corps magnétique formé de particules ferromagnétiques encapsulées et méthode de fabrication.

Publication

**EP 0619584 A2 19941012 (EN)**

Application

**EP 94200723 A 19940321**

Priority

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Abstract (en)

A method for stress-relieving a compression-moulded magnetic body is provided for purposes of enhancing the magnetic permeability of the magnetic body. The method involves encapsulating ferromagnetic particles with a preferred polymeric coating material, comprising either a polybenzimidazole or a polyimide derived from either 3-4' oxydianiline or polymethylene dianiline. The preferred coating materials are capable of withstanding elevated temperatures for a duration which is sufficient to anneal the magnetic body formed from the coated metal particles. As a result, the stresses induced in the magnetic core by the compression-moulding process can be relieved without detriment to the mechanical properties and magnetic characteristics of the magnetic core.

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Cited by

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