

Title (en)

Process for modifying magnetic materials and magnetic materials therefrom.

Title (de)

Verfahren zur Modifizierung von Magnetmaterialien und Magnetmaterialien daraus.

Title (fr)

Procédé de modification de matériaux magnétiques et matériaux magnétiques ainsi obtenus.

Publication

EP 0493019 A2 19920701 (EN)

Application

EP 91311867 A 19911220

Priority

- IE 67191 A 19910228
- IE 328191 A 19910918
- IE 464490 A 19901221

Abstract (en)

A process is provided for modifying the magnetic properties of an intermetallic compound comprising at least iron, or a combination of iron with at least one transition metal, and at least one rare earth element. The process comprises heating the intermetallic compound in a reaction gas containing at least one element of groups IIIA, IVA or VIA of the Periodic Table in the gaseous phase to interstitially incorporate the element or elements of these groups into the crystal lattice of the intermetallic compound. Novel magnetic materials showing easy uniaxial anisotropy, increased spontaneous magnetization and Curie temperatures are produced by the process.

IPC 1-7

H01F 1/053; H01F 41/02

IPC 8 full level

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Cited by

WO2017211921A1; EP1589544A4; DE4243048A1; CN109313971A; FR2704087A1; DE4116857A1; US5720828A; US2011133112A1; US8764917B2; EP0594309A1; US5403408A; US7465363B2; US11410803B2

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