

Title (en)

Isotropic permanent magnets and process for producing same.

Title (de)

Isotrope permanente Magnete und Verfahren zu ihrer Herstellung.

Title (fr)

Aimants permanents isotropes et procédé pour leur fabrication.

Publication

EP 0124655 A2 19841114 (EN)

Application

EP 83113252 A 19831230

Priority

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- JP 7909883 A 19830506

Abstract (en)

Isotropic permanent magnet formed of a sintered body having a mean crystal grain size of 1-160 microns and a major phase of tetragonal system comprising, in atomic percent, 10-25% of R wherein R represents at least one of rare-earth elements including Y, 3-23% of B and the balance being Fe. As additional elements M, Al, Ti, V, Cr, Mn, Zr, Hf, Nb, Ta, Mo, Ge, Sb, Sn, Bi, Ni or W may be incorporated. The magnets can be produced through a powder metallurgical process resulting in high magnetic properties, e.g., up to 7 MGOe or higher energy product.

IPC 1-7

H01F 1/08

IPC 8 full level

H01F 1/057 (2006.01)

CPC (source: EP)

H01F 1/0577 (2013.01)

Cited by

US6926777B2; DE19636283A1; DE19962232B4; DE4135403A1; US6994755B2; US6966953B2; EP0195219A3; US4954186A; CN110957092A; US4849035A; DE19945943B4; DE19636284A1; DE19636284C2; EP0253521A3; US4778542A; DE4027598A1; US4829277A; DE19945942A1; DE19945942C2; DE19636285A1; DE19636285C2; US7485193B2; WO2007088422A3

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