

Title (en)
ISOTROPIC PERMANENT MAGNETS AND PROCESS FOR PRODUCING SAME

Publication
EP 0124655 B1 19890920 (EN)

Application
EP 83113252 A 19831230

Priority
• JP 7909683 A 19830506
• JP 7909883 A 19830506

Abstract (en)
[origin: EP0124655A2] 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; DE4135403A1; US6966953B2; DE19945943B4; DE19962232B4; US4849035A; US6994755B2; US4954186A; DE19636283A1; CN110957092A; EP0253521A3; US4778542A; EP0195219A3; DE4027598A1; US4829277A; DE19636284A1; DE19636284C2; DE19945942A1; DE19945942C2; DE19636285A1; DE19636285C2; US7485193B2; WO2007088422A3

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