

Title (en)
Permanent magnets.

Title (de)
Dauermagnete.

Title (fr)
Aimants permanents.

Publication
EP 0338597 B1 19950111 (EN)

Application
EP 89111005 A 19850227

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Abstract (en)
[origin: EP0338597A2] Permanent magnet materials, produced according to the following steps: forming an alloy powder having a mean particle size of 0.3-80 μ m and composed of, in atomic percentage, 8-30 % R (provided that R is at least one of rare earth elements including Y), 2-28 % B, and the balance Fe and inevitable impurities, sintering the formed body at a temperature of 900-1200 DEG C, subjecting the sintered body to a primary heat treatment at a temperature of 750-1000 DEG C, then cooling the resultant body to a temperature of no higher than 680 DEG C at a cooling rate of 3-2000 DEG C/min, and further subjecting the thus cooled body to a secondary heat treatment at a temperature of 480-700 DEG C. Magnets having an energy product (BH)_{max} of at least 20 MGOe and a coercitive force (iH_c) of at least 10 kOe or magnets having an energy product (BH)_{max} of 40 MGOe or more can be obtained by specific compositions.

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H01F 1/053

IPC 8 full level
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CPC (source: EP)
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