

Title (en)

Anisotropic Rare Earth Magnet

Title (de)

Anisotroper Seltenerd-Magnet

Title (fr)

Aimant ayant des propriétés anisotropiques à base de terres rares

Publication

EP 0522177 B2 20030730 (EN)

Application

EP 92903728 A 19920128

Priority

- JP 9200073 W 19920128
- JP 6082891 A 19910128
- JP 6083391 A 19910130
- JP 6083791 A 19910131
- JP 6086091 A 19910201

Abstract (en)

[origin: WO9213353A1] A hot press molding product or a HIP molding product having any of a composition comprising 10 to 20 at.% of R, 3 to 20 at.% of B, 0.001 to 5.0 at.% of one or more atoms selected among Ga, Zr and Hf, and the balance of Fe and unavoidable impurities, a composition comprising 10 to 20 at.% of R, 3 to 20 at.% of B, 0.001 to 5.0 at.% of one or more atoms selected among Ti, V, Nb, Ta, Al and Si, and the balance of Fe and unavoidable impurities, and a composition comprising 0.1 to 50 at.% of Co in addition to any of the two abovementioned compositions. It has an aggregate structure of crystal grains with a mean diameter of 0.05 to 20 μm wherein a tetragonal $\text{R}_2\text{Fe}_{14}\text{B}$ or $\text{R}_2(\text{Fe}, \text{Co})_{14}\text{B}$ intermetallic compound constitutes a main phase and crystal grains having a major axis (b) to minor axis (a) ratio of less than 2 account for at least 50 vol% of all the crystal grains.

IPC 1-7

H01F 1/053

IPC 8 full level

H01F 1/057 (2006.01)

CPC (source: EP)

H01F 1/0573 (2013.01); **H01F 1/0576** (2013.01)

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DOCDB simple family (publication)

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