

Title (en)

Magnetic alloy and method of making the same.

Title (de)

Magnetische Legierung und Herstellungsverfahren.

Title (fr)

Alliage magnétique et procédé de fabrication.

Publication

EP 0599815 A1 19940601 (EN)

Application

EP 94101456 A 19870928

Priority

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Abstract (en)

A rare earth-iron magnetic alloy comprising an alloy of between about 8 to 30 atomic percent of at least one rare earth element, between about 2 and 8 atomic percent boron and the balance iron, wherein said magnetic alloy has a columnar macrostructure and an easy axis of magnetisation aligned in a plane perpendicular to the direction of crystal growth. A method of manufacturing a rare earth-iron magnetic alloy is also disclosed; comprising casting a molten alloy composition including at least one rare earth element, iron and boron to form an anisotropic cast ingot having a columnar macrostructure. <IMAGE>

IPC 1-7

H01F 1/053

IPC 8 full level

H01F 1/057 (2006.01)

CPC (source: EP)

H01F 1/057 (2013.01)

Citation (search report)

- [DX] FR 2586323 A1 19870220 - SEIKO EPSON CORP [JP]
- [A] T.MIZOGUCHI ET AL, APPLIED PHYSICS LETTERS, vol. 48, no. 19, 12 May 1986 (1986-05-12), NEW YORK US, pages 1309 - 1310
- [PX] PATENT ABSTRACTS OF JAPAN vol. 12, no. 49 (E - 582)<2896> 13 February 1988 (1988-02-13)

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