

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

- EP 87308559 A 19870928
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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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