

Title (en)

A RARE EARTH-BASED ALLOY FOR PERMANENT MAGNET

Publication

EP 0242283 B1 19901107 (EN)

Application

EP 87400808 A 19870409

Priority

- JP 8472386 A 19860412
- JP 8472486 A 19860412

Abstract (en)

[origin: EP0242283A1] In contrast to the generally accepted understanding that no excellent magnetically anisotropic sintered permanent magnet can be obtained of a rare earth-iron alloy, rare earth-iron based permanent magnets of high magnetic performance almost equivalent to the samarium-cobalt magnets can be prepared by admixing the rare earth-iron alloy with 0.1 to 10% by weight of titanium. Partial replacement of iron in the alloy with cobalt has an effect to increase the Curie point of the permanent magnet.

IPC 1-7

C22C 38/14; **H01F 1/08**

IPC 8 full level

C22C 38/14 (2006.01); **H01F 1/055** (2006.01)

CPC (source: EP)

C22C 38/14 (2013.01); **H01F 1/0557** (2013.01)

Citation (examination)

- Ullmanns Encyklopädie der technischen Chemie, 4, Band 21, S. 236
- Webster's Third New International Dictionary

Cited by

DE102013009940A1; EP0386286A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

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