

Title (en)

RAPID COMPACTION OF RARE EARTH-TRANSITION METAL ALLOYS IN A FLUID-FILLED DIE

Publication

**EP 0331286 A3 19891102 (EN)**

Application

**EP 89300871 A 19890130**

Priority

US 16355888 A 19880303

Abstract (en)

[origin: EP0331286A2] A novel method is provided for making large, fully densified rare earth-transition metal magnets. The method involves rapid compaction of very finely crystalline rare earth-transition metal alloy particles (2) retained in a die (12), using pressure applied to a substantially incompressible fluid medium (6) surrounding said particles (2).

IPC 1-7

**B22F 3/14**; **H01F 1/04**

IPC 8 full level

**B22F 3/08** (2006.01); **B22F 3/12** (2006.01); **B22F 3/14** (2006.01); **B22F 3/15** (2006.01); **C22C 33/02** (2006.01); **H01F 1/055** (2006.01); **H01F 1/057** (2006.01); **H01F 1/08** (2006.01); **H01F 41/02** (2006.01)

CPC (source: EP)

**B22F 3/1208** (2013.01); **B22F 3/14** (2013.01); **B22F 3/15** (2013.01); **B30B 11/002** (2013.01); **H01F 1/0556** (2013.01); **H01F 1/0576** (2013.01); **H01F 41/0266** (2013.01)

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- [A] PATENT ABSTRACTS OF JAPAN, Vol. 9, No. 228 (C-303)[1951], 13th September 1985; & JP-A-60 089 533 (NAMIKI SEIMITSU HOUSEKI K.K.) (20-05-1985)

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