

Title (en)  
MAGNETIC CORE

Title (de)  
MAGNETKERN

Title (fr)  
NOYAU MAGNETIQUE

Publication  
**EP 0473782 B1 19970827 (EN)**

Application  
**EP 90904934 A 19900327**

Priority  
JP 9000407 W 19900327

Abstract (en)  
[origin: WO9115020A1] A magnetic core obtained by winding a long sheet of thin alloy or by laminating short sheets thereof. The surface roughness of the thin alloy sheet or sheets is limited to lie within a predetermined range in order to improve the squareness ratio of the magnetic core. The magnetic core exhibits excellent squareness ratio characteristic and magnetic saturation characteristic in high-frequency regions.

IPC 1-7  
**H01F 27/24; H01F 1/153**

IPC 8 full level  
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CPC (source: EP KR)  
**H01F 1/15308** (2013.01 - EP); **H01F 1/15316** (2013.01 - EP); **H01F 1/15341** (2013.01 - EP); **H01F 1/16** (2013.01 - EP); **H01F 3/04** (2013.01 - EP); **H01F 27/24** (2013.01 - KR)

Citation (examination)  
• JP H06484602 A  
• EP-A- 0 342 921  
• EP-A- 0 342 922  
• EP-A- 0 342 923  
• DE-A- 3 705 893  
• DE-A- 3 835 986  
• JP-A- 6 484 602  
• JP-A-62 179 704  
• PATENT ABSTRACTS OF JAPAN, vol. 13, no. 589 (C-670)(3937), December 25, 1989; & JP-A-1 247 556 (HITACHI METALS LTD.) 03-10-1989  
• NL; D.X. PANG et al.: "Influence of quenching rate on the curie temperature, resistivity, internal friction and structure of Fe-based amorphous alloys"  
• PATENT ABSTRACTS OF JAPAN, vol. 13, no. 139 (E-738)(3487), April 6, 1989; & JP- A-63 302 504 (HITACHI METALS LTD.) 09-12-1988  
• PATENT ABSTRACTS OF JAPAN, vol. 13, no. 171 (C-588)(3519), April 24, 1989; & JP-A-64 249 (TOSHIBA CORP.) 05-01-1989  
• JOURNAL OF APPLIED PHYSICS, vol. 55, no. 6, Part IIA, March 1984, pages 1787- 1789; New York, US; H.H. LIEBERMANN et al.: "Dependence of some properties on thickness of smooth amorphous alloy ribbon"  
• Japanese Journal of applied physics, vol.19, no.9, september 1980 pages 1781-1787, Tokio JP; M.Matsuura et al: " Effects of ambient gases on surface profile and related properties of amorphous alloy ribbons fabricated by melt-spinning "  
• Denki Gakkai Kenyukai Shiryo, Jiki Oyo Kenkyukai AM 79-58, 21 December 1979  
• Patent Abstract of Japan, vol.13, no. 589, December 25, 1989;

Cited by  
GB2374084A; EP1045402A3; EP3157021A4; EP3693980A1; US6299989B1; US6425960B1; WO9959168A1

Designated contracting state (EPC)  
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DOCDB simple family (application)  
**JP 9000407 W 19900327**; DE 69031338 T 19900327; EP 90904934 A 19900327; KR 910701674 A 19911125