

Title (en)
Permanent magnet with good thermal stability.

Title (de)
Dauermagnet mit guter thermischer Stabilität.

Title (fr)
Aimant permanent à bonne stabilité thermique.

Publication
EP 0421488 B1 19941012

Application
EP 90121313 A 19870722

Priority

- EP 87110634 A 19870722
- JP 85787 A 19870106
- JP 17298786 A 19860723
- JP 18590586 A 19860807
- JP 24349086 A 19861014

Abstract (en)
[origin: EP0258609A2] A permanent magnet having good thermal stability, consisting essentially of the composition represented by the general formula: $R(\text{Fe}_{1-x-y-z}\text{Co}_x\text{ByGaz})\text{A}$ wherein R is Nd alone or one or more rare earth elements mainly composed of Nd, Pr or Ce, $0 \leq x \leq 0.7$, $0.02 \leq y \leq 0.3$, $0.001 \leq z \leq 0.15$ and $4.0 \leq A \leq 7.5$. This permanent magnet may contain one or more additional elements selected from Nb, W, V, Ta and Mo. This permanent magnet has high coercive force and Curie temperature and thus highly improved thermal stability.

IPC 1-7
H01F 1/053

IPC 8 full level
C22C 19/07 (2006.01); **C22C 38/00** (2006.01); **H01F 1/053** (2006.01); **H01F 1/057** (2006.01)

CPC (source: EP)
H01F 1/057 (2013.01); **H01F 1/0577** (2013.01)

Citation (examination)
JP H06148657 A 19940527 - MATSUSHITA ELECTRIC IND CO LTD

Cited by
US5405455A; DE19541948A1; EP0517179A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0258609 A2 19880309; EP 0258609 A3 19890426; EP 0258609 B1 19930203; CN 1036554 C 19971126; CN 87105186 A 19880203; DE 3750661 D1 19941117; DE 3750661 T2 19950406; DE 3783975 D1 19930318; DE 3783975 T2 19930527; EP 0421488 A2 19910410; EP 0421488 A3 19910828; EP 0421488 B1 19941012; JP 2751109 B2 19980518; JP S647503 A 19890111; KR 880002202 A 19880429; KR 910001065 B1 19910223

DOCDB simple family (application)
EP 87110634 A 19870722; CN 87105186 A 19870723; DE 3750661 T 19870722; DE 3783975 T 19870722; EP 90121313 A 19870722; JP 18388187 A 19870723; KR 870008004 A 19870723