

Title (en)

PERMANENT MAGNETIC ALLOY WITH EXCELLENT HEAT RESISTANCE AND PROCESS FOR PRODUCING THE SAME

Title (de)

PERMANENTMAGNETISCHE LEGIERUNG MIT HERVORRAGENDEN WAERMERESISTENTEN EIGENSCHAFTEN UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

ALLIAGE MAGNETIQUE PERMANENT PRESENTANT UNE EXCELLENTE RESISTANCE A LA CHALEUR, ET SON PROCEDE DE PRODUCTION

Publication

EP 1026279 B1 20051026 (EN)

Application

EP 99933132 A 19990728

Priority

- JP 9904048 W 19990728
- JP 22752298 A 19980729

Abstract (en)

[origin: EP1026279A1] A permanent magnet alloy having an improved heat resistance comprising, in terms of % by atom, 0.1 to 15 at.% C, 0.5 to 15 at.% B, provided that C and B in total account for 2 to 30 at.%; 40% or less Co (exclusive), 0.5 to 5 at.% in total of Dy and Tb, 8 to 20 at.% R, where R represents at least one element selected from the group consisting of Nd, Pr, Ce, La, Y, Gd, Ho, Er, and Tm; with the balance being Fe and unavoidable impurities. <IMAGE>

IPC 1-7

C22C 38/10; **C22C 1/04**; **B22F 9/04**; **H01F 1/04**; **H01F 1/058**; **H01F 1/057**

IPC 8 full level

B22F 9/04 (2006.01); **C22C 1/04** (2006.01); **C22C 38/00** (2006.01); **C22C 38/10** (2006.01); **H01F 1/04** (2006.01); **H01F 1/057** (2006.01); **H01F 1/058** (2006.01); **H01F 41/02** (2006.01)

CPC (source: EP)

C22C 1/0441 (2013.01); **C22C 33/0278** (2013.01); **C22C 38/002** (2013.01); **C22C 38/005** (2013.01); **C22C 38/10** (2013.01); **H01F 1/057** (2013.01); **H01F 1/0577** (2013.01); **H01F 41/0266** (2013.01); **B22F 2998/10** (2013.01); **B22F 2999/00** (2013.01)

C-Set (source: EP)

1. **B22F 2998/10** + **B22F 9/04** + **B22F 3/02** + **B22F 3/1028**
2. **B22F 2999/00** + **B22F 3/1007** + **B22F 2201/10**
3. **B22F 2998/10** + **B22F 3/1007** + **B22F 3/1028**
4. **B22F 2998/10** + **B22F 9/08** + **B22F 9/04** + **B22F 3/02**
5. **B22F 2999/00** + **B22F 3/02** + **B22F 2202/05**
6. **B22F 2999/00** + **B22F 3/1007** + **B22F 2201/11**
7. **B22F 2999/00** + **C22C 33/0207** + **B22F 9/04**

Cited by

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EP 1026279 A1 20000809; **EP 1026279 A4 20030409**; **EP 1026279 B1 20051026**; CN 1098368 C 20030108; CN 1274394 A 20001122; DE 69927931 D1 20051201; DE 69927931 T2 20060720; DE 69938467 D1 20080515; DE 69938467 T2 20090409; EP 1607491 A1 20051221; EP 1607491 B1 20080402; HK 1032247 A1 20010713; JP 4034936 B2 20080116; WO 0006792 A1 20000210

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