

Title (en)

Bonded rare earth magnet and a process for manufacturing the same.

Title (de)

Gebundener Seltenerdsmagnet und Verfahren zur Herstellung.

Title (fr)

Aimant aggloméré en terre rare et procédé pour sa fabrication.

Publication

EP 0468449 A1 19920129 (EN)

Application

EP 91112333 A 19910723

Priority

- JP 19595890 A 19900724
- JP 21311090 A 19900811
- JP 30919990 A 19901114

Abstract (en)

A highly rustproof resin-bonded magnet side by using a specific rustproofing resin for coating the particles of a magnetic powder, bonding them to form a molded body, or coating its surface, or for two or all of those purposes. The specific resin is selected from ones containing groups of atoms having a power of forming a coordinate bond and a reducing action. More specifically, it is (a) a high molecular compound produced by reacting with an epoxy resin one or more of a polyhydric phenol having adjacent hydroxyls, a polyhydric phenolic carboxylic acid having adjacent hydroxyls, an ester of a polyhydric phenol and a polyhydric alcohol having adjacent hydroxyls, and a polycyclic and polyhydric phenol having adjacent hydroxyls, (b) a redox resin as a reduction agent, or (c) a high molecular compound produced by curing a mixture of ascorbic acid, or a derivative thereof, and an epoxy resin.

IPC 1-7

H01F 1/04

IPC 8 full level

H01F 1/057 (2006.01)

CPC (source: EP)

H01F 1/0578 (2013.01)

Citation (search report)

- [A] EP 0320064 A1 19890614 - PHILIPS NV [NL]
- [A] EP 0277416 A2 19880810 - CRUCIBLE MATERIALS CORP [US]
- [A] EP 0270934 A1 19880615 - TOHOKU METAL IND LTD [JP]
- [A] EP 0261579 A1 19880330 - TOKIN CORP [JP]
- [A] EP 0197712 B1 19900124

Cited by

EP1266936A1; EP0561445A1; US5272008A; US5395695A; US8692639B2; US6800804B2

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