

Title (en)

Method for obtaining powdered magnetic material of the rare earth-transition metal-boron type for corrosion resistant magnets.

Title (de)

Herstellungsverfahren von Seltenerdübergangsmetall-Bortyp-Magnetpulver für korrosionsfeste Magnete.

Title (fr)

Méthode d'obtention sous forme divisée d'un matériau magnétique de type terre rare - métaux de transition bore pour des aimants résistant à la corrosion.

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Application

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Priority

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Abstract (en)

[origin: US5221368A] The invention relates to a method of obtaining friable and relatively inert TR Fe B type magnetic materials in divided form which lead to magnets having improved corrosion resistance. This method involves treating the material in an atmosphere containing (or capable of containing) hydrogen under the following conditions of absolute pressure (P) and of temperature (T DEG C.): if  $P \leq P_a$ ,  $250 < T < 550$ ; and if  $P > P_a$ ,  $250 + 100 \log(P/P_a) < T < 250 + 100 \log(P/P_a)$  log base 10,  $P_a$  being atmospheric pressure. The invention is used for obtaining sintered TR Fe B magnets having improved corrosion resistance.

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