

Title (en)

Permanent magnet (material) and production process

Title (de)

Permanentmagnet(-werkstoff) sowie Verfahren zur Herstellung desselben

Title (fr)

(Matériau pour) Aimant permanent et procédé de fabrication

Publication

EP 0425469 B1 20000405 (DE)

Application

EP 90890267 A 19901005

Priority

AT 245489 A 19891025

Abstract (en)

[origin: EP0425469A2] The invention relates to a sintered SE-Fe-B permanent magnetic material and a process for its production. According to the invention, to improve the magnetic characteristics, it is intended to add or incorporate, as an additional alloy component, at least one further element from the group consisting of the heavy rare earth metals, for example dysprosium and/or terbium, and/or at least one oxide and/or nitride and/or carbide of at least one element from the group consisting of the rare earth metals at or in the grain boundaries and/or in the grain boundary region of the magnetic phase, preferably SE₂Fe₁₄B, where SE is at least one element from the group consisting of the rare earth metals, for example neodymium and/or dysprosium and/or holmium. Table 1 <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Cited by

EP0505348A1; EP2521147A1; US10160037B2; WO0213209A3; US10614952B2; US11482377B2; US11791093B2

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