

Title (en)

Permanent magnet material or sintered magnet and fabrication process

Title (de)

Permanentmagnetwerkstoff bzw. gesinterter Permanentmagnet und Verfahren zu dessen Herstellung

Title (fr)

Matériau pour aimant permanent ou aimant permanent fritté et procédé de fabrication

Publication

EP 0505348 B1 19961016 (DE)

Application

EP 92890055 A 19920311

Priority

AT 59691 A 19910318

Abstract (en)

[origin: EP0505348A1] The invention relates to a permanent magnet (material) containing 8 to 30 atom % of rare earths (SE), 2 to 28 atom % of boron, the remainder being iron (Fe) and cobalt (Co), and to a process for fabricating it. To obtain high magnetic characteristics coupled with improved temperature stability and increased Curie temperature of the permanent magnet (material), it is provided according to the invention that the hard-magnetic fraction consists of at least two magnetic phases, at least one further peripheral phase being attached to the grains, formed by inward diffusion, of at least one central phase, or associated therewith, and the paramagnetic binder phases having a higher concentration of SE.

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IPC 8 full level

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EP 0505348 A1 19920923; EP 0505348 B1 19961016; AT 399415 B 19950526; AT A59691 A 19940915; AT E144348 T1 19961115; CZ 281163 B6 19960717; CZ 78492 A3 19931215; DE 59207356 D1 19961121; DK 0505348 T3 19970324; ES 2095454 T3 19970216; GR 3022263 T3 19970430; HU 216373 B 19990628; HU 9200889 D0 19920528; HU T62341 A 19930428; PL 293878 A1 19921019

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