

Title (en)
PERMANENT MAGNETIC MATERIALS OF THE R-FE-B TYPE AND PROCESS OF MANUFACTURE

Title (de)
DAUERMAGNETMATERIALIEN VOM TYP R-FE-B UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
MATIERES MAGNETIQUES PERMANENTES DE TYPE R-FE-B ET PROCEDE DE FABRICATION

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Application
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Abstract (en)
[origin: WO0048208A1] An Fe-B-R type permanent magnetic, consisting of: 13-19 atomic % R, where R essentially consists of a mixture of rare earth elements Nd and/or Pr, and Ce, where Ce is between 0.2 and 5.0 wt.% of R; 4-20 atomic % B, and the balance comprising Fe. In a preferred aspect, R comprises 15-16 atomic % B; of which Ce is approximately 0.5 % and the remaining rare earths Pr and Nd are in a ratio of 3:1. A process of producing an Fe-B-R permanent magnet as described above, and an Fe-B-R magnetic material made by such process, are also disclosed.

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