

Title (en)
Production of iron aluminide materials

Title (de)
Herstellung von Eisenaluminid-Werkstoffen

Title (fr)
Fabrication de matériaux du type aluminure de fer

Publication
EP 0587960 B1 19980513 (DE)

Application
EP 92810713 A 19920916

Priority
EP 92810713 A 19920916

Abstract (en)
[origin: EP0587960A1] The process makes possible the production of iron aluminide materials comprising an Fe₃Al-based alloy with 18-35% of Al, with 3-15% of Cr, with 0.2-0.5% of B and/or C, and with a total of 0-8% of the following alloy additives: Mo, Nb, Zr, Y and/or V, and also Fe as predominant remainder. According to the invention, additives are added to the melt of a known alloy from which dispersed crystallites, so-called dispersoids, form and which are, thanks to good wettability, bedded into the monocrystalline phase on solidification. A fine-grained microstructure can be generated from the solid alloy by hot rolling at a temperature between 650 and 1000 DEG C. <IMAGE>

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Cited by
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