

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 Fe<sub>3</sub>Al-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>

IPC 1-7  
**C22C 38/06**; **C22C 32/00**

IPC 8 full level  
**C22C 32/00** (2006.01); **C22C 38/06** (2006.01)

CPC (source: EP US)  
**C22C 32/0068** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US)

Cited by  
EP2733829A1; AT513255A4; AT513255B1; DE19735217A1; DE19735217B4; DE102009020922A1; WO9728289A1; WO2017125147A1

Designated contracting state (EPC)  
AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0587960 A1 19940323**; **EP 0587960 B1 19980513**; AT E166112 T1 19980515; DE 59209325 D1 19980618; US 5346562 A 19940913

DOCDB simple family (application)  
**EP 92810713 A 19920916**; AT 92810713 T 19920916; DE 59209325 T 19920916; US 12071893 A 19930913