

Title (en)
IRON ALUMINIDE COMPOSITE AND METHOD OF MANUFACTURE THEREOF

Title (de)
EISENALUMINIDKOMPOSIT UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
COMPOSITE D'ALUMINURE DE FER ET PROCEDE DE FABRICATION

Publication
EP 1060279 A1 20001220 (EN)

Application
EP 99905633 A 19990202

Priority
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• US 1748398 A 19980202

Abstract (en)
[origin: WO9939016A1] An iron aluminide composite including an oxide filler and an additive which improves metallurgical bonding of the oxide filler to the iron aluminide. The composite is useful for structural components, extruded shapes and electrical resistance heating elements. The iron aluminide can include, in weight %, ≤ 1 % Cr, 4-32 % Al, ≤ 2 % Ti, ≤ 2 % Mo, ≤ 1 % Zr, ≤ 1 % C, ≤ 3 % W and ≤ 0.1 % B. The oxide filler can comprise ≤ 40 % aluminum oxide particles and the additive can comprise up to 40 % of one or more refractory carbides such as TiC.

IPC 1-7
C22C 33/00; **B22F 3/12**

IPC 8 full level
B22F 3/12 (2006.01); **B22F 3/23** (2006.01); **C22C 1/04** (2006.01); **C22C 14/00** (2006.01); **C22C 29/00** (2006.01); **C22C 32/00** (2006.01); **C22C 33/02** (2006.01)

CPC (source: EP KR)
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