

Title (en)

METHOD FOR PROCESSING TITANIUM ALUMINIDE INTERMETALLIC COMPOSITIONS

Title (de)

VERFAHREN ZUR VERARBEITUNG VON INTERMETALLISCHEN TITANALUMINIDZUSAMMENSETZUNGEN

Title (fr)

PROCÉDÉ DE TRAITEMENT DE COMPOSITIONS INTERMÉTALLIQUES D'ALUMINURE DE TITANE

Publication

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Application

EP 15184357 A 20130319

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- US 201213459420 A 20120430
- EP 13159885 A 20130319

Abstract (en)

Methods of processing compositions containing titanium and aluminum, especially titanium aluminide intermetallic compositions (TiAl intermetallics) based on the TiAl (gamma) intermetallic compound. The methods entail processing steps that include a hot isostatic pressing (HIP) cycle and a heat treatment cycle that can be performed in a single vessel. TiAl intermetallic compositions processed in this manner preferably exhibit a duplex microstructure containing equiaxed and lamellar morphologies.

IPC 8 full level

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CPC (source: EP US)

C22C 1/02 (2013.01 - EP US); **C22C 14/00** (2013.01 - EP US); **C22F 1/18** (2013.01 - EP US); **C22F 1/183** (2013.01 - EP US)

Citation (applicant)

US 4879092 A 19891107 - HUANG SHYH-CHIN [US]

Citation (search report)

- [A] US 6231699 B1 20010515 - KELLY THOMAS J [US], et al
- [A] US 5634992 A 19970603 - KELLY THOMAS J [US], et al

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DOCDB simple family (publication)

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