

Title (en)

Methods for processing titanium aluminide intermetallic compositions

Title (de)

Verfahren zur Verarbeitung von intermetallischen Titanaluminidzusammensetzungen

Title (fr)

Procédés de traitement de compositions intermétalliques d'aluminure de titane

Publication

**EP 2641984 A3 20140312 (EN)**

Application

**EP 13159885 A 20130319**

Priority

- US 201261614751 P 20120323
- US 201213459420 A 20120430

Abstract (en)

[origin: EP2641984A2] 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

**C22C 14/00** (2006.01); **C22F 1/18** (2006.01)

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 (search report)

- [A] US 6231699 B1 20010515 - KELLY THOMAS J [US], et al
- [A] US 5350466 A 19940927 - LARSEN JR DONALD E [US], et al

Cited by

WO2021152274A1; FR3106851A1

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DOCDB simple family (publication)

**EP 2641984 A2 20130925; EP 2641984 A3 20140312; EP 2641984 B1 20151021**; BR 102013006917 A2 20150707; CA 2809444 A1 20130923; CA 2809444 C 20210518; CN 103320647 A 20130925; CN 103320647 B 20171107; EP 2995695 A1 20160316; EP 2995695 B1 20171122; JP 2013199705 A 20131003; JP 6200666 B2 20170920; US 2013248061 A1 20130926

DOCDB simple family (application)

**EP 13159885 A 20130319**; BR 102013006917 A 20130325; CA 2809444 A 20130314; CN 201310093900 A 20130322; EP 15184357 A 20130319; JP 2013055847 A 20130319; US 201213459420 A 20120430