

Title (en)

HIGH STRENGTH L1 2 ALUMINUM ALLOYS PRODUCED BY CRYOMILLING

Title (de)

MITTELS KRYOGENER ZERKLEINERUNG HERGESTELLTE HOCHFESTE L12-ALUMINIUMLEGIERUNGEN

Title (fr)

ALLIAGES D'ALUMINIUM L1 2 HAUTE RÉSISTANCE PRODUITS PAR CRYOBROYAGE

Publication

EP 2403967 A4 20160727 (EN)

Application

EP 10749389 A 20100305

Priority

- US 2010026364 W 20100305
- US 39871209 A 20090305

Abstract (en)

[origin: US2010226817A1] A method and apparatus produces high strength aluminum alloys from a cryomilled powder containing L12 intermetallic dispersoids. The cryomilled powder is degassed, sealed under vacuum in a container, heated, consolidated by vacuum hot pressing, and extruded.

IPC 8 full level

C22C 21/00 (2006.01); **C22C 21/02** (2006.01); **C22F 1/04** (2006.01); **C22F 1/043** (2006.01)

CPC (source: EP US)

B22F 9/04 (2013.01 - EP US); **C22C 1/0416** (2013.01 - EP US); **C22C 21/003** (2013.01 - EP US); **C22C 21/02** (2013.01 - EP US); **C22C 21/06** (2013.01 - EP US); **C22C 21/10** (2013.01 - EP US); **C22C 21/12** (2013.01 - EP US); **B22F 2003/145** (2013.01 - EP US); **B22F 2009/041** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

C-Set (source: EP US)

1. **B22F 2998/10 + B22F 9/082 + B22F 9/04 + B22F 3/1216 + B22F 3/14 + B22F 3/20**
2. **B22F 2999/00 + B22F 9/04 + B22F 2202/03**
3. **B22F 2999/00 + B22F 3/1216 + B22F 2201/20**

Citation (search report)

- [X] EP 1439239 A1 20040721 - UNITED TECHNOLOGIES CORP [US]
- [X] EP 1405927 A1 20040407 - BOEING CO [US]
- [A] EP 1728881 A2 20061206 - UNITED TECHNOLOGIES CORP [US]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

US 2010226817 A1 20100909; EP 2403967 A2 20120111; EP 2403967 A4 20160727; WO 2010102206 A2 20100910; WO 2010102206 A3 20101118

DOCDB simple family (application)

US 39871209 A 20090305; EP 10749389 A 20100305; US 2010026364 W 20100305