

Title (en)

Hot compaction and extrusion of L12 aluminum alloys

Title (de)

Heißverdichtung und -extrusion von L12-Aluminiumlegierungen

Title (fr)

Compactage à chaud et extrusion d'alliages d'aluminium L12

Publication

EP 2325342 A3 20110921 (EN)

Application

EP 10251433 A 20100811

Priority

US 54394509 A 20090819

Abstract (en)

[origin: US2011044844A1] A method and apparatus produces high strength aluminum alloys from a powder containing L12 intermetallic dispersoids. The powder is degassed, sealed under vacuum in a container, consolidated by vacuum hot pressing, and extruded into useful shapes.

IPC 8 full level

B22F 1/00 (2006.01); **B22F 3/12** (2006.01); **B22F 3/14** (2006.01); **B22F 3/20** (2006.01); **C22C 1/04** (2006.01); **C22C 21/00** (2006.01); **C22F 1/04** (2006.01)

CPC (source: EP US)

B22F 3/20 (2013.01 - EP US); **C22C 1/0416** (2013.01 - EP US); **C22C 21/00** (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); **C22F 1/04** (2013.01 - EP US); **B22F 2003/175** (2013.01 - EP US); **B22F 2003/208** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

Citation (search report)

- [X] WO 03104505 A2 20031218 - QUESTEK INNOVATIONS LLC [US], et al
- [X] EP 1111078 A2 20010627 - UNITED TECHNOLOGIES CORP [US]
- [X] US 5310520 A 19940510 - JHA SUNIL C [US], et al

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CN108538426A; CN102400135A; CN106239164A

Designated contracting state (EPC)

AL 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

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

US 2011044844 A1 20110224; EP 2325342 A2 20110525; EP 2325342 A3 20110921; EP 2325342 B1 20130123

DOCDB simple family (application)

US 54394509 A 20090819; EP 10251433 A 20100811