Title (en)

Titanium-based intermetallic alloys of the Ti2AlNb type with high yield strength and good creep resistance

Title (de)

Intermetallische Legierungen auf Titan-Basis vom Ti2AlNb-Typ mit hoher Streckgrenze und guter Kriechbeständigkeit

Title (fr)

Alliages intermétalliques à base de titane du type Ti2A1Nb à haute limite d'élasticité et forte résistance au fluage

Publication

EP 0924308 B1 20020502 (FR)

Application

EP 98403187 A 19981217

Priority

FR 9716057 A 19971218

Abstract (en)

[origin: EP0924308A1] A titanium-aluminum-niobium intermetallic phase alloy, which contains molybdenum, silicon, tantalum and/or zirconium and which has the composition given below, is new. A titanium based intermetallic phase alloy has the composition 16-26 at.% Al, 18-28 at.% Nb, 0-2 at.% Mo, 0-0.8 at.% Si, 0-2 at.% Ta, 0-2 at.% Zr and balance Ti, the sum of Mo + Si + Zr + Ta being greater than 0.4 at.%.

IPC 1-7

C22C 14/00; C22C 27/02; C22F 1/18

IPC 8 full level

C22F 1/00 (2006.01); **C22C 14/00** (2006.01); **C22C 27/02** (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP US)

C22C 14/00 (2013.01 - EP US); **C22C 27/02** (2013.01 - EP US); **C22F 1/183** (2013.01 - EP US)

Cited by

CN103710554A; FR2979702A1; CN113462997A; CN115612879A; CN106637013A; CN108465819A; CN104233141A; FR3030577A1; CN111394637A; CN104357804A; CN106914508A; US10119180B2; WO2013034851A1; WO2016102806A1

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DOCDB simple family (application)

EP 98403187 A 19981217; DE 69805148 T 19981217; FR 9716057 A 19971218; JP 35971598 A 19981217; US 21324798 A 19981217