

Title (en)
Beta-TITANIUM COMPOSITION AND METHODS OF MANUFACTURE THEREOF

Title (de)
Beta-TITANZUSAMMENSETZUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
COMPOSITION AU BETA TITANE ET son PROCEDES DE FABRICATION

Publication
EP 1516070 A1 20050323 (EN)

Application
EP 03742209 A 20030627

Priority
• US 0320077 W 20030627
• US 39262002 P 20020627

Abstract (en)
[origin: WO2004003243A1] An article is manufactured from a composition comprising about 8 to about 10 wt% molybdenum, about 2.8 to about 6 wt% aluminum, up to about 2 wt% chromium, up to about 2 wt% vanadium, up to about 4 wt% niobium, with the balance being titanium, wherein the weight percents are based on the total weight of the alloy composition. An article is manufactured by a method comprising forming a shape from a composition comprising about 8 to about 10 wt% molybdenum, about 2.8 to about 6 wt% aluminum, up to about 2 wt% chromium, up to about 2 wt% vanadium, up to about 4 wt% niobium, with the balance being titanium, wherein the weight percents are based on the total weight of the alloy composition; cold working the shape; and heat treating the shape.

IPC 1-7
C22C 14/00; **C22F 1/18**; **A61L 27/06**

IPC 8 full level
A61L 27/06 (2006.01); **C22C 14/00** (2006.01); **C22F 1/00** (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP US)
A61L 27/04 (2013.01 - EP US); **A61L 27/06** (2013.01 - EP US); **A61L 27/34** (2013.01 - EP US); **A61L 31/022** (2013.01 - EP US); **A61L 31/10** (2013.01 - EP US); **A63B 53/0416** (2020.08 - EP); **A63B 53/0445** (2020.08 - EP); **A63B 53/047** (2013.01 - EP US); **A63B 60/00** (2015.10 - EP US); **C22C 14/00** (2013.01 - EP US); **C22F 1/16** (2013.01 - EP US); **C22F 1/183** (2013.01 - EP US); **A63B 53/04** (2013.01 - EP); **A63B 53/0416** (2020.08 - US); **A63B 53/0445** (2020.08 - US); **A63B 2209/00** (2013.01 - EP US); **A63B 2209/14** (2013.01 - EP US)

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US9000296B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004003243 A1 20040108; AU 2003247649 A1 20040119; AU 2003280458 A1 20040119; CA 2489431 A1 20040108; CA 2489432 A1 20040108; CN 1665948 A 20050907; CN 1665949 A 20050907; EP 1516070 A1 20050323; EP 1516070 A4 20050727; EP 1516071 A1 20050323; EP 1516071 A4 20051130; JP 2005530929 A 20051013; JP 2005530930 A 20051013; US 2004052676 A1 20040318; US 2004099356 A1 20040527; WO 2004003242 A1 20040108

DOCDB simple family (application)
US 0320081 W 20030627; AU 2003247649 A 20030627; AU 2003280458 A 20030627; CA 2489431 A 20030627; CA 2489432 A 20030627; CN 03815139 A 20030627; CN 03815141 A 20030627; EP 03742209 A 20030627; EP 03762045 A 20030627; JP 2004517832 A 20030627; JP 2004517834 A 20030627; US 0320077 W 20030627; US 60900303 A 20030627; US 60900403 A 20030627