

Title (en)

PROCESS FOR CONVERTING AN ALLOY AND PROCESS FOR PRODUCING A LANDING GEAR PART

Title (de)

VERFAHREN ZUR UMWANDLUNG EINER LEGIERUNG UND VERFAHREN ZUR HERSTELLUNG EINES FAHRWERKSTEILS

Title (fr)

PROCÉDÉ DE CONVERSION D'UN ALLIAGE ET PROCÉDÉ DE PRODUCTION D'UNE PIÈCE D'ATERRISSEUR

Publication

**EP 2977477 B1 20240228 (FR)**

Application

**EP 15177409 A 20150717**

Priority

FR 1457114 A 20140723

Abstract (en)

[origin: US2016024631A1] A method of converting an alloy comprising a majority of titanium, the method comprising: a step of fabricating an ingot (1); steps of a first type (A, B, C) of plastically deforming the alloy at a temperature higher than the  $\beta$  transus temperature  $T\beta$ ; steps of a second type (A', B') of plastically deforming the alloy at a temperature lower than the  $\beta$  transus temperature  $T\beta$ . These step of the first and second types (A, A', B, B', C) are performed in the following sequence: a first step of the first type (A) at a first temperature  $T1$ ; a first step of the second type (A'); a second step of the first type (B) at a second temperature  $T2$  lower than  $T1$ ; a second step of the second type (B'); and a third step of the first type (C) at a third temperature  $T3$  lower than  $T2$ .

IPC 8 full level

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

CPC (source: EP US)

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

Citation (examination)

- EP 2623628 A1 20130807 - PUBLIC STOCK COMPANY VSMPO AVISMA CORP [RU]
- WO 2014093009 A1 20140619 - ATI PROPERTIES INC [US]

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 RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2977477 A1 20160127**; **EP 2977477 B1 20240228**; FR 3024160 A1 20160129; FR 3024160 B1 20160819; JP 2016040410 A 20160324; US 2016024631 A1 20160128

DOCDB simple family (application)

**EP 15177409 A 20150717**; FR 1457114 A 20140723; JP 2015145596 A 20150723; US 201514805786 A 20150722