

Title (en)

METHOD FOR THE BETA ANNEALING OF A WORKPIECE PRODUCED FROM A TI ALLOY

Title (de)

VERFAHREN ZUM BETA-GLÜHEN EINES AUS EINER TI-LEGIERUNG HERGESTELLTEN WERKSTÜCKES

Title (fr)

PROCÉDÉ POUR LE RECUIT BÊTA D'UNE PIÈCE À USINER FABRIQUÉE À PARTIR D'UN ALLIAGE DE TITANE

Publication

EP 2393952 B1 20141029 (DE)

Application

EP 10702655 A 20100129

Priority

- EP 2010051078 W 20100129
- DE 102009003430 A 20090205

Abstract (en)

[origin: WO2010089256A1] A description is given of a method for the heat treatment of a workpiece produced from a titanium alloy for obtaining a fine-grained microstructure by annealing the same above its β -transus temperature $T\beta$. According to the invention, the workpiece is heated in a furnace to a temperature level TH above its β -transus temperature $T\beta$. Reaching the temperature level TH determines the beginning of a predefined holding time, for which the workpiece is kept at this temperature level TH . The workpiece subsequently undergoes a cooling process. To carry out the heat treatment, the furnace temperature TF is set such that, for heating up the workpiece to the temperature level intended for carrying out the holding, it lies above the temperature level TH of the workpiece determining the beginning of the holding time.

IPC 8 full level

C22F 1/18 (2006.01)

CPC (source: EP US)

C22F 1/183 (2013.01 - EP US)

Cited by

CN106826118A

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)

WO 2010089256 A1 20100812; DE 102009003430 A1 20100923; EP 2393952 A1 20111214; EP 2393952 B1 20141029; ES 2528941 T3 20150213; US 2012000581 A1 20120105; US 8388776 B2 20130305

DOCDB simple family (application)

EP 2010051078 W 20100129; DE 102009003430 A 20090205; EP 10702655 A 20100129; ES 10702655 T 20100129; US 201013147797 A 20100129