

Title (en)

METHODS FOR HEAT TREATING AND MANUFACTURING A THERMOMECHANICAL PART MADE OF A TITANIUM ALLOY

Title (de)

VERFAHREN ZUR WÄRMEBEHANDLUNG UND HERSTELLUNG EINES THERMOMECHANISCHEN TEILS AUS EINER TITANLEGIERUNG

Title (fr)

PROCEDES DE TRAITEMENT THERMIQUE ET DE FABRICATION D'UNE PIECE THERMOMECHANIQUE REALISEE DANS UN ALLIAGE DE TITANE

Publication

**EP 2002026 B1 20110914 (FR)**

Application

**EP 07731850 A 20070330**

Priority

- FR 2007051046 W 20070330
- FR 0651111 A 20060330

Abstract (en)

[origin: FR2899241A1] The heat treatment of a thermomechanical part in a titanium alloy, comprises setting of a solution to a maximum temperature of beta transus of -20 to -15[deg]C for 4-8 hours, and hardening the part at a temperature of 595[deg]C for 8 hours and at a cooling speed of higher than 300-400[deg]C/min. Independent claims are included for: (1) a method of manufacturing a thermomechanical part in a titanium alloy; (2) a thermomechanical part; and (3) a turbo machine.

IPC 8 full level

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

CPC (source: EP US)

**C22F 1/183** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**FR 2899241 A1 20071005; FR 2899241 B1 20081205**; EP 2002026 A2 20081217; EP 2002026 B1 20110914; JP 2009531546 A 20090903; JP 5525257 B2 20140618; US 2009308506 A1 20091217; WO 2007113445 A2 20071011; WO 2007113445 A3 20071213

DOCDB simple family (application)

**FR 0651111 A 20060330**; EP 07731850 A 20070330; FR 2007051046 W 20070330; JP 2009502173 A 20070330; US 29509307 A 20070330