

Title (en)

METHOD FOR MAKING FORGED TIAL COMPONENTS

Title (de)

VERFAHREN ZUR HERSTELLUNG GESCHMIEDETER TIAL-BAUTEILE

Title (fr)

PROCÉDÉ DE FABRICATION D'ÉLÉMENTS STRUCTURAUX EN TIAL FORGÉS

Publication

EP 3372700 B1 20191009 (DE)

Application

EP 17160397 A 20170310

Priority

EP 17160397 A 20170310

Abstract (en)

[origin: US2018257127A1] A method for producing a forged component from a TiAl alloy is provided, in particular a turbine blade (10), in which method a blank of a TiAl alloy is provided and deformed by forging into a forged, semi-finished part (9). A usable volume is defined within the forged, semi-finished part, the usable volume corresponding to the forged component to be produced. The shape of the blank is selected such that within the usable volume of the forged, semi-finished part, the degree of deformation resulting from forging deviates by no more than ± 1 from a defined value.

IPC 8 full level

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

CPC (source: EP US)

B21J 1/06 (2013.01 - US); **B21J 5/025** (2013.01 - US); **C22C 14/00** (2013.01 - EP US); **C22F 1/183** (2013.01 - EP US); **F01D 5/147** (2013.01 - US); **F01D 5/286** (2013.01 - US); **F05D 2220/323** (2013.01 - US); **F05D 2230/10** (2013.01 - US); **F05D 2230/25** (2013.01 - US); **F05D 2230/41** (2013.01 - US); **F05D 2300/174** (2013.01 - US)

Cited by

WO2022105967A1; EP3584334A1; CN109365731A; EP3581668A1; US11542582B2; DE102020214700A1

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 3372700 A1 20180912; **EP 3372700 B1 20191009**; ES 2753242 T3 20200407; US 10737314 B2 20200811; US 2018257127 A1 20180913

DOCDB simple family (application)

EP 17160397 A 20170310; ES 17160397 T 20170310; US 201815915290 A 20180308