

Title (en)

METHOD AND DEVICE FOR CONNECTING A TURBINE WHEEL TO AN INTERMEDIATE PIECE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM VERBINDEN EINES TURBINENRADS MIT EINEM ZWISCHENSTÜCK

Title (fr)

PROCÉDÉ ET DISPOSITIF D'ASSEMBLAGE D'UNE ROUE DE TURBINE ET D'UNE PIÈCE INTERCALAIRE

Publication

EP 2870322 B1 20180103 (DE)

Application

EP 13732143 A 20130626

Priority

- DE 102012211494 A 20120703
- EP 2013063410 W 20130626

Abstract (en)

[origin: WO2014005906A1] The invention relates to a method (100) for connecting a turbine wheel (300) to an intermediate piece (302) at a joint, wherein the method (100) comprises a provision step (102), an arrangement step (104), and a temperature control step (106). In the provision step (102), the turbine wheel (300) and the intermediate piece (302) are provided, wherein the turbine wheel (300) is made of a first material and has a first contact surface, and the intermediate piece (302) is made of a second material and has a second contact surface, wherein the first material and the second material are different. In the arrangement step (104), the intermediate piece (302) is arranged in a position relative to the turbine wheel (300), wherein the second contact surface is arranged facing the first contact surface in the area of the joint. In the temperature control step (106), the turbine wheel (300) and the intermediate piece (302) are brought to a sintering temperature, wherein the turbine wheel (300) and/or the intermediate piece (302) is sintered in order to connect the first contact surface and the second contact surface at the joint.

IPC 8 full level

F01D 5/04 (2006.01)

CPC (source: EP)

F01D 5/025 (2013.01); **F05D 2220/40** (2013.01); **F05D 2230/22** (2013.01)

Cited by

WO2021248615A1

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)

DE 102012211494 A1 20140109; EP 2870322 A1 20150513; EP 2870322 B1 20180103; WO 2014005906 A1 20140109

DOCDB simple family (application)

DE 102012211494 A 20120703; EP 13732143 A 20130626; EP 2013063410 W 20130626