

Title (en)
METHOD FOR THE PRODUCTION OF A COMPOSITE COMPONENT COMPRISING TWO COMPONENT SECTIONS WITH A BASIC ADHESIVE NICKEL LAYER LOCATED BETWEEN THE TWO COMPONENT SECTIONS

Title (de)
VERFAHREN ZUM HERSTELLEN EINES VERBUNDBAUTEILS AUS ZWEI BAUTEILABSCHNITTEN MIT EINER ZWISCHEN DEN BEIDEN BAUTEILABSCHNITTEN LIEGENDEN NICKELBASISWERKSTOFF-HAFTSCHICHT

Title (fr)
PROCEDE DE FABRICATION D'UNE PIECE COMPOSITE CONSTITUEE DE DEUX SEGMENTS ENTRE LESQUELS EST SITUEE UNE COUCHE ADHESIVE EN MATERIAU A BASE DE NICKEL

Publication
EP 1904259 A1 20080402 (DE)

Application
EP 06791295 A 20060629

Priority
• DE 2006001115 W 20060629
• DE 102005031584 A 20050706

Abstract (en)
[origin: WO2007003166A1] The invention relates to a method for producing a composite component (10), especially a composite gas turbine component (10), comprising a first component section (11) that is made of a basic magnesium or aluminum material as well as a second component section (13) made of a high-strength material, particularly a basic iron, nickel, titanium, or cobalt material. The inventive method encompasses at least the following steps: a) the first component section (11) made of the basic magnesium or aluminum material is made available; b) the first component section (11) made of the basic magnesium or aluminum material is coated with an adhesive layer (12) at least in a joining zone for the second component section, a basic nickel material, particularly a nickel alloy material, being used as a coating material for the adhesive layer; c) the second component section (13) made of the high-strength material, especially the basic iron, nickel, titanium, or cobalt material, is made available; d) the second component section (13) made of the high-strength material is joined to the joining area of the first component section (11) made of the basic magnesium or aluminum material, said joining area being coated with the adhesive layer (12).

IPC 8 full level
B23K 20/227 (2006.01); **B23K 1/19** (2006.01); **B23K 10/02** (2006.01); **B23K 26/34** (2006.01); **B23K 101/00** (2006.01); **B23K 103/02** (2006.01); **B23K 103/08** (2006.01); **B23K 103/10** (2006.01); **B23K 103/18** (2006.01); **B23K 103/20** (2006.01)

CPC (source: EP US)
B23K 1/19 (2013.01 - EP US); **B23K 10/027** (2013.01 - EP US); **B23K 20/2275** (2013.01 - EP US); **B23K 26/32** (2013.01 - EP US); **B23K 26/342** (2015.10 - EP US); **B23K 35/002** (2013.01 - EP US); **B23K 35/004** (2013.01 - EP US); **B23K 35/005** (2013.01 - EP US); **B23K 35/0244** (2013.01 - EP US); **B23K 35/3033** (2013.01 - EP US); **B23K 2101/00** (2018.07 - EP US); **B23K 2101/001** (2018.07 - EP US); **B23K 2103/02** (2018.07 - EP US); **B23K 2103/10** (2018.07 - EP US); **B23K 2103/14** (2018.07 - EP US); **B23K 2103/15** (2018.07 - EP US); **B23K 2103/18** (2018.07 - EP US); **B23K 2103/20** (2018.07 - EP US); **B23K 2103/26** (2018.07 - EP US); **B23K 2103/50** (2018.07 - EP US); **Y10T 156/10** (2015.01 - EP US); **Y10T 428/12229** (2015.01 - EP US)

Citation (search report)
See references of WO 2007003166A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
DE 102005031584 A1 20070111; EP 1904259 A1 20080402; US 2008090093 A1 20080417; WO 2007003166 A1 20070111

DOCDB simple family (application)
DE 102005031584 A 20050706; DE 2006001115 W 20060629; EP 06791295 A 20060629; US 95020207 A 20071204