

Title (en)

METHOD FOR MEASURING LAYER THICKNESS BY MEANS OF LASER TRIANGULATION, AND DEVICE

Title (de)

VERFAHREN ZUR SCHICHTDICKENMESSUNG MITTELS LASERTRIANGULATION UND VORRICHTUNG

Title (fr)

PROCÉDÉ POUR MESURER UNE ÉPAISSEUR DE COUCHE AU MOYEN D'UNE TRIANGULATION LASER ET DISPOSITIF

Publication

EP 2491338 A1 20120829 (DE)

Application

EP 10728168 A 20100621

Priority

- EP 09013170 A 20091019
- EP 2010058722 W 20100621
- EP 10728168 A 20100621

Abstract (en)

[origin: EP2312267A1] The method involves measuring a component (1) e.g. turbine blades (120, 130) and heat shielding element (155), before and during or after coating by laser triangulation. Layer thickness of the component is calculated from different measurements. Laser triangulation measurement is performed after or during coating the component. Data obtained before and after coating is compared together by a computer. The layer thickness for a metallic layer and ceramic layer is produced and is determined by atmospheric plasma spraying (APS), vacuum plasma spraying (VPS) or chemical vapor deposition. An independent claim is also included for a device for performing a method for determining layer thickness of component to be coated.

IPC 8 full level

G01B 11/06 (2006.01)

CPC (source: EP KR US)

G01B 11/06 (2013.01 - KR); **G01B 11/0616** (2013.01 - EP US); **G01B 11/0683** (2013.01 - EP US)

Citation (search report)

See references of WO 2011047890A1

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2312267 A1 20110420; CN 102575927 A 20120711; EP 2491338 A1 20120829; JP 2013508696 A 20130307; KR 20120098632 A 20120905; RU 2012120660 A 20131127; RU 2541440 C2 20150210; US 2012263866 A1 20121018; WO 2011047890 A1 20110428

DOCDB simple family (application)

EP 09013170 A 20091019; CN 201080047224 A 20100621; EP 10728168 A 20100621; EP 2010058722 W 20100621; JP 2012534593 A 20100621; KR 20127009905 A 20100621; RU 2012120660 A 20100621; US 201013502381 A 20100621