

Title (en)

Method and device for determining the proportion of at least one aggregate of a multi-component powder for thermal spraying

Title (de)

Verfahren und Vorrichtung zum Ermitteln des Anteils zumindest eines Zuschlagstoffes eines Multikomponentenpulvers zum thermischen Spritzen

Title (fr)

Procédé et dispositif de détermination de la partie d'au moins un additif d'une poudre à plusieurs composants destinée à la pulvérisation thermique

Publication

**EP 2006409 A3 20110504 (DE)**

Application

**EP 08005536 A 20080325**

Priority

DE 102007016243 A 20070404

Abstract (en)

[origin: EP2006409A2] The method involves illuminating a powder injection jet (6) before entering into a hot gas jet (7), and detecting the fluorescence of a polyester additive by detection optics, where the additive is provided with multiple fluorescence markers. The powder injection jet is illuminated by a coherent light source such as laser light source. The detection optics is formed as a fiber-optic cable. The detected fluorescence is evaluated by utilizing emission spectroscopy. Independent claims are also included for the following: (1) a method for online-process control during thermal spraying (2) a device for selective detection of an additive during thermal spraying.

IPC 8 full level

**C23C 4/04** (2006.01); **B05B 7/20** (2006.01); **C23C 4/12** (2006.01); **G01N 21/64** (2006.01)

CPC (source: EP)

**C23C 4/04** (2013.01); **C23C 4/12** (2013.01); **C23C 4/18** (2013.01)

Citation (search report)

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- [XAY] WO 2006060991 A1 20060615 - MTU AERO ENGINES GMBH [DE], et al
- [XA] GB 2377998 A 20030129 - OXFORD LASERS LTD [GB]
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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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**DE 102007016243 A 20070404**; EP 08005536 A 20080325