

Title (en)

Method for coating a blade, blade coated thereby and coating device

Title (de)

Verfahren zum Beschichten einer Klinge, mittels dem Verfahren beschichtete Klinge sowie Vorrichtung zum Beschichten

Title (fr)

Procédé de revêtement d'une lame, lame revêtue à l'aide de ce procédé et dispositif de revêtement

Publication

EP 2105211 A3 20100428 (DE)

Application

EP 09154168 A 20090303

Priority

DE 102008000830 A 20080326

Abstract (en)

[origin: EP2105211A2] The method comprises spirally winding a blade body (30) to be coated on a cylindrical base with a blade top side (32) and a blade lower side (34), coating the blade sides with a coating material, hardening the coating material through the coating (15), and unwinding the coated blade (10) from the cylindrical base. The coating is applied under a gradient, which corresponds to the gradient of the blade body. The procedure is repeated for coating of the other blade side. The blade side is subjected to a pretreatment such as sandblasting, grinding or brushing before the coating process. The method comprises spirally winding a blade body (30) to be coated on a cylindrical base with a blade top side (32) and a blade lower side (34), coating the blade sides with a coating material, hardening the coating material through the coating (15), and unwinding the coated blade (10) from the cylindrical base. The coating is applied under a gradient, which corresponds to the gradient of the blade body. The procedure is repeated under coating of the other blade side. The blade side is subjected to a pretreatment such as sandblasting, grinding or brushing before the coating process. The coating is carried out under rotating the cylindrical base and axial displacement of the application of the coating material or the cylindrical base. A binder coating is applied on the blade side before the coating process. The hardened coating is subjected to a thermal and/or mechanical treatment such as milling, grinding or polishing. Independent claims are included for: (1) a blade; and (2) a device for coating the blade.

IPC 8 full level

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CPC (source: EP)

B05C 11/045 (2013.01); **B05D 1/002** (2013.01); **B05D 7/146** (2013.01); **D21H 25/10** (2013.01); **B05C 9/10** (2013.01); **B05C 9/12** (2013.01); **B05C 13/02** (2013.01)

Citation (search report)

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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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

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