

Title (en)
Component coating

Title (de)
Bauteilbeschichtung

Title (fr)
Revêtement de composant

Publication
EP 2228461 A1 20100915 (DE)

Application
EP 09002778 A 20090226

Priority
EP 09002778 A 20090226

Abstract (en)
The component coating (2) useful as abrasion- and wear protection layer for spring clip of turbine (1), consists of rhenium diboride particles (6-10 wt. %), which are imbedded in a ductile matrix. The ductile matrix is made of alloy of chromium, aluminum and yttrium (MCrAlY). The thickness of the component coating is 0.1-600 μ m. An independent claim is included for a method for the production of component coating.

Abstract (de)
Die Erfindung betrifft eine Bauteilbeschichtung (2), die Rheniumdiborid enthält, ein Bauteil (1) mit der Bauteilbeschichtung (2), Verfahren zur Herstellung der Bauteilbeschichtung (2) und die Verwendung der Bauteilbeschichtung (2) als Abrieb- und Verschleißschuttschicht.

IPC 8 full level
C23C 4/06 (2006.01); **C23C 4/08** (2006.01); **C23C 4/12** (2006.01); **C23C 24/04** (2006.01); **F01D 25/00** (2006.01)

CPC (source: EP)
C23C 4/073 (2016.01); **C23C 4/129** (2016.01); **C23C 24/04** (2013.01); **F01D 9/023** (2013.01); **F05D 2300/21** (2013.01); **F05D 2300/603** (2013.01)

Citation (applicant)
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• EP 1253294 A2 20021030 - ALSTOM SWITZERLAND LTD [CH]
• US 2007012043 A1 20070118 - PARKER DAVID M [US], et al
• HSIU-YING CHUNG ET AL., SCIENCE, vol. 316, no. 5823, 20 April 2007 (2007-04-20), pages 436 - 439

Citation (search report)
• [X] US 2009003123 A1 20090101 - MORRISON JR LOWEN ROBERT [US], et al
• [X] LATININ, RAU ET AL: "Superhard Rhenium Diboride Films:Preparation and Characterization", CHEM. MATER, no. 20, 2008, usa, pages 4507 - 4511, XP002529264
• [AD] HSIU-YING ET AL: "Synthesis of Ultra-Incompressible Superhard Rhenium Diboride at Ambient Pressure", SCIENCE, vol. 316, 20 April 2008 (2008-04-20), pages 436 - 439, XP002529265

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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DOCDB simple family (application)
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