

Title (en)

COATING FOR THERMICALLY AND ABRASIVELY LOADED TURBINE BLADES

Title (de)

BESCHICHTUNG FÜR THERMISCH UND ABRASIV BELADENE TURBINENSCHAUFELN

Title (fr)

REVÊTEMENT POUR AUBES DE TURBINE À CHARGE THERMIQUE ET ABRASIVE

Publication

EP 4263896 A1 20231025 (DE)

Application

EP 21801831 A 20211027

Priority

- DE 102020007662 A 20201215
- EP 2021000134 W 20211027

Abstract (en)

[origin: WO2022128144A1] The invention relates to a method for coating a substrate surrounding a gas turbine blade, comprising the following steps: In a first step, a MCrAlY matrix is applied by means of a PVD method; in a further step, an oxide layer is applied by means of a PVD method.

IPC 8 full level

C23C 14/16 (2006.01); **C23C 14/06** (2006.01); **C23C 14/08** (2006.01); **C23C 14/32** (2006.01); **F01D 5/12** (2006.01); **F01D 5/28** (2006.01)

CPC (source: EP KR US)

C23C 14/0057 (2013.01 - KR); **C23C 14/0635** (2013.01 - EP KR); **C23C 14/0641** (2013.01 - EP KR); **C23C 14/067** (2013.01 - EP KR); **C23C 14/08** (2013.01 - EP KR); **C23C 14/165** (2013.01 - EP KR); **C23C 14/325** (2013.01 - EP KR); **C23C 14/3414** (2013.01 - KR); **C23C 28/3215** (2013.01 - US); **C23C 28/34** (2013.01 - US); **F01D 5/288** (2013.01 - EP KR US); **F05D 2230/313** (2013.01 - EP KR US); **F05D 2230/90** (2013.01 - US); **F05D 2300/175** (2013.01 - US); **F05D 2300/2118** (2013.01 - EP KR); **F05D 2300/226** (2013.01 - EP KR); **F05D 2300/228** (2013.01 - EP KR); **F05D 2300/611** (2013.01 - US)

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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022128144 A1 20220623; CA 3206459 A1 20220623; CN 117083411 A 20231117; EP 4263896 A1 20231025; JP 2023554044 A 20231226; KR 20230122015 A 20230822; US 2024026793 A1 20240125

DOCDB simple family (application)

EP 2021000134 W 20211027; CA 3206459 A 20211027; CN 202180084486 A 20211027; EP 21801831 A 20211027; JP 2023536142 A 20211027; KR 20237020178 A 20211027; US 202118257419 A 20211027