

Title (en)

Turbine blade with variable oxidation resistance coating

Title (de)

Turbinenschaufel mit variabel Oxidationsbeständiger Beschichtung

Title (fr)

Aube de turbine comprenant un revêtement à résistance anti-oxydation variable

Publication

EP 2354454 A1 20110810 (EN)

Application

EP 10152433 A 20100202

Priority

EP 10152433 A 20100202

Abstract (en)

A turbine blade with an airfoil section (3) is provided, where the airfoil section (3) includes a first region (9) and at least a second region (11). The exterior of the airfoil section (3) comprises an oxidation resistant coating where the first region (9) is coated with an oxidation resistant coating that has a higher oxidation resistance than the oxidation resistant coating of the second region (11).

IPC 8 full level

F01D 5/28 (2006.01)

CPC (source: EP)

F01D 5/288 (2013.01); **F05D 2230/90** (2013.01); **F05D 2260/95** (2013.01); **F05D 2300/121** (2013.01); **F05D 2300/14** (2013.01); **F05D 2300/143** (2013.01); **F05D 2300/15** (2013.01); **F05D 2300/611** (2013.01)

Citation (applicant)

- US 2002170176 A1 20021121 - RIGNEY JOSEPH DAVID [US], et al
- WO 2007140805 A1 20071213 - SIEMENS AG [DE], et al

Citation (search report)

- [X] EP 1627936 A2 20060222 - GEN ELECTRIC [US]
- [X] EP 1076158 A1 20010214 - GEN ELECTRIC [US]
- [X] EP 0139396 A1 19850502 - WESTINGHOUSE ELECTRIC CORP [US]
- [X] EP 0844368 A2 19980527 - UNITED TECHNOLOGIES CORP [US]
- [X] WO 2007140805 A1 20071213 - SIEMENS AG [DE], et al
- [A] EP 1327702 A1 20030716 - ALSTOM SWITZERLAND LTD [CH]

Cited by

EP2857546A1; WO2015049086A1; WO2015077163A1; US11261742B2; US11834963B2; EP2781616A1; EP2781617A1; US9850566B2

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 SM TR

DOCDB simple family (publication)

EP 2354454 A1 20110810

DOCDB simple family (application)

EP 10152433 A 20100202