

Title (en)

GAS TURBINE ENGINE FAN BLADE TIP TREATMENT

Title (de)

BEARBEITUNG DER SPITZE EINER GASTURBINENGEBLÄSESCHAUFEL

Title (fr)

TRAITEMENT DE L'EXTRÉMITÉ D'UNE PALE DE SOUFFLANTE D'UNE TURBINE À GAZ

Publication

EP 2867477 A2 20150506 (EN)

Application

EP 13831135 A 20130522

Priority

- US 201213536156 A 20120628
- US 2013042197 W 20130522

Abstract (en)

[origin: US2014010663A1] A method of manufacturing a fan blade includes providing a metallic fan blade body, and applying at least a 200 volt potential to the fan blade body in a solution to produce a crystalline oxidation layer. A fan blade for a gas turbine engine includes a metallic fan blade body having a tip with a crystalline oxidation layer. A fan blade for a gas turbine engine includes a metallic fan blade body having a tip with a titanium dioxide layer.

IPC 8 full level

F01D 5/20 (2006.01); **C25D 9/04** (2006.01); **C25D 9/06** (2006.01); **C25D 11/02** (2006.01); **F01D 5/12** (2006.01); **F01D 5/28** (2006.01); **F04D 29/32** (2006.01)

CPC (source: EP US)

C25D 9/04 (2013.01 - EP US); **C25D 11/022** (2013.01 - EP US); **C25D 11/026** (2013.01 - EP US); **C25D 11/04** (2013.01 - EP US); **F01D 5/147** (2013.01 - US); **F01D 5/286** (2013.01 - EP US); **F04D 29/324** (2013.01 - EP US); **F01D 5/20** (2013.01 - US); **F05D 2220/36** (2013.01 - EP US); **F05D 2230/312** (2013.01 - EP US); **F05D 2240/303** (2013.01 - EP US); **F05D 2240/307** (2013.01 - EP US); **F05D 2300/173** (2013.01 - EP US); **F05D 2300/174** (2013.01 - EP US); **Y10T 29/49336** (2015.01 - EP US)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 2014010663 A1 20140109; EP 2867477 A2 20150506; EP 2867477 A4 20160615; WO 2014031195 A2 20140227; WO 2014031195 A3 20140530

DOCDB simple family (application)

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