

Title (en)

ROTOR KEYHOLE FILLET FOR A GAS TURBINE ENGINE

Title (de)

ROTORSCHLÜSSELLOCHLEISTE FÜR EINEN GASTURBINENMOTOR

Title (fr)

CONGÉ DE ROTOR EN TROU DE SERRURE POUR UN MOTEUR À TURBINE À GAZ

Publication

**EP 2885521 A4 20150819 (EN)**

Application

**EP 13829735 A 20130716**

Priority

- US 201213584890 A 20120814
- US 2013050686 W 20130716

Abstract (en)

[origin: WO2014028157A1] A rotor for a gas turbine engine includes an annular structure having a blade slot. A hub engagement feature is provided on the annular structure. The hub engagement feature includes first and second surfaces transverse to one another and joined by a fillet that is recessed with respect to the first and second surfaces. A method of manufacturing a rotor includes the steps of machining an annular hub engagement feature into a rotor. The hub engagement feature includes first and second surfaces transverse to one another and is joined by a fillet that is recessed with respect to the first and second surfaces. The method includes the step of peening the fillet, and grinding the first and second surfaces.

IPC 8 full level

**F02C 7/00** (2006.01); **F01D 5/02** (2006.01); **F01D 5/06** (2006.01); **F02C 7/32** (2006.01)

CPC (source: EP US)

**F01D 5/025** (2013.01 - US); **F01D 5/026** (2013.01 - EP US); **F01D 5/066** (2013.01 - EP US); **F05D 2260/37** (2013.01 - EP US); **Y10T 29/49321** (2015.01 - EP US)

Citation (search report)

- [IY] EP 2412924 A2 20120201 - UNITED TECHNOLOGIES CORP [US]
- [IY] WO 2010112509 A2 20101007 - SIEMENS AG [DE], et al
- [YA] US 2008223099 A1 20080918 - DAVID WALTER [DE]
- [A] EP 2339118 A2 20110629 - UNITED TECHNOLOGIES CORP [US]
- See references of WO 2014028157A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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