

Title (en)

Annulus filler system

Title (de)

Ringförmiges Füllsystem

Title (fr)

Système de remplissage d'espace annulaire

Publication

EP 2511479 A3 20170419 (EN)

Application

EP 12160837 A 20120322

Priority

GB 201106276 A 20110414

Abstract (en)

[origin: EP2511479A2] An annulus filler system bridges the gap between two adjacent blades attached to a rim of the rotor disc of a gas turbine engine. The system includes an annulus filler having a lid which extends between the adjacent blades and defines an airflow surface for air being drawn through the engine. The filler also has a support body extending beneath the lid and terminating in an elongate foot which, in use, extends along a groove provided in the rim of the disc. The groove has a neck which prevents withdrawal of the foot through the neck in a radially outward direction of the disc. The system further includes a sleeve which, after installation of the filler, is slidably locatable into a gap between the foot and sides of the groove. The foot is formed of composite material and the sleeve provides a galvanic isolation layer preventing galvanic corrosion between the foot and the disc.

IPC 8 full level

F01D 5/28 (2006.01); **F01D 5/30** (2006.01); **F01D 11/00** (2006.01)

CPC (source: EP US)

F01D 5/28 (2013.01 - EP US); **F01D 5/30** (2013.01 - EP US); **F01D 5/3092** (2013.01 - EP US); **F01D 11/008** (2013.01 - EP US); **F05D 2300/603** (2013.01 - EP US)

Citation (search report)

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- [Y] US 3317988 A 19670509 - WILHELM ENDRES
- [YA] DE 19859477 A1 20000629 - MTU MUENCHEN GMBH [DE]
- [Y] EP 2154334 A2 20100217 - ROLLS ROYCE PLC [GB]
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Cited by

EP2837773A1; EP4223980A3; US12012857B2

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

DOCDB simple family (publication)

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DOCDB simple family (application)

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