

Title (en)

Annulus filler system

Title (de)

Ringförmiges Füllsystem

Title (fr)

Système de remplissage d'espace annulaire

Publication

EP 2511479 B1 20180124 (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)

Cited by

EP4223980A3; EP2837773A1; 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

DOCDB simple family (publication)

EP 2511479 A2 20121017; **EP 2511479 A3 20170419**; **EP 2511479 B1 20180124**; GB 201106276 D0 20110525; US 2012263596 A1 20121018

DOCDB simple family (application)

EP 12160837 A 20120322; GB 201106276 A 20110414; US 201213427427 A 20120322