Title (en)

Coating system for rotor/stator seal of a fluid flow engine and method for producing such a coating system

Title (de)

Schichtsystem zur Rotor-/Statordichtung einer Strömungsmaschine und Verfahren zum Herstellen eines derartigen Schichtsystems

Title (fr)

Système de revêtement pour l'étanchéification de rotor/stator d'une turbomachine et procédé de fabrication d'un tel système de revêtement

Publication

EP 2439379 A3 20170712 (DE)

Application

EP 11180300 A 20110907

Priority

DE 102010048147 A 20101011

Abstract (en)

[origin: EP2439379A2] Two components such as rotor (2) and stator (6) are relatively moved, such that entry of components in the layer system is performed. An adhesive layer is formed on any one of components. A protecting layer is formed on the adhesive layer. Another adhesive layer is formed on the protecting layer. A continuous layer which is softer than the protecting layer is formed on adhesive layer. The protecting and continuous layers are made of ceramic, alumina and zirconium oxide. An independent claim is included for method for manufacturing layer system.

IPC 8 full level

F01D 11/12 (2006.01); **F01D 11/00** (2006.01)

CPC (source: EP US)

F01D 5/288 (2013.01 - EP US); **F01D 11/001** (2013.01 - EP US); **F01D 11/08** (2013.01 - US); F01D 11/122 (2013.01 - EP US); F05B 2230/90 (2013.01 - US); F05D 2230/311 (2013.01 - EP US); F05D 2230/90 (2013.01 - US); F05D 2300/2112 (2013.01 - EP US); F05D 2300/2118 (2013.01 - EP US); F05D 2300/514 (2013.01 - EP US)

Citation (search report)

- [XI] US 4422648 A 19831227 - EATON HARRY E [US], et al
- [XI] WO 2005071228 A1 20050804 - MTU AERO ENGINES GMBH [DE], et al

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US11274560B2

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)

EP 2439379 A2 20120411; **EP 2439379 A3 20170712**; DE 102010048147 A1 20120412; DE 102010048147 B4 20160421; US 2012087781 A1 20120412; US 8992169 B2 20150331

DOCDB simple family (application)

EP 11180300 A 20110907; DE 102010048147 A 20101011; US 201113233437 A 20110915