

Title (en)

PROCESS FOR LOCALISED REPAIR OF A DAMAGED THERMAL BARRIER

Title (de)

VERFAHREN ZUR LOKALISIERTEN REPARATUR EINER BESCHÄDIGTEN WÄRMEDÄMMSCHICHT

Title (fr)

PROCEDE DE REPARATION LOCALISEE D'UNE BARRIERE THERMIQUE ENDOMMAGEE

Publication

EP 3099848 B1 20210825 (FR)

Application

EP 14828044 A 20141211

Priority

- FR 1400224 A 20140129
- FR 2014053268 W 20141211

Abstract (en)

[origin: WO2015114227A1] The invention relates to a process for the localised repair of a damaged thermal barrier comprising the following step:
a) treatment via electrophoresis of a part coated with a damaged thermal barrier, the part being formed from an electrically conductive material, the damaged thermal barrier comprising a ceramic material and having at least one damaged zone to be repaired, the part being present in an electrolyte comprising a suspension of particles in a liquid medium, a ceramic coating being deposited by electrophoresis in the damaged zone in order to obtain a repaired thermal barrier intended to be used at temperatures greater than or equal to 1000 °C, the particles being formed from a material different to the ceramic material present in the damaged thermal barrier.

IPC 8 full level

C25D 13/02 (2006.01); **C25D 13/12** (2006.01); **C25D 13/20** (2006.01); **C25D 13/22** (2006.01); **F01D 5/00** (2006.01); **F01D 5/28** (2006.01)

CPC (source: EP RU US)

C25D 13/02 (2013.01 - EP RU US); **C25D 13/12** (2013.01 - EP US); **C25D 13/18** (2013.01 - EP); **C25D 13/20** (2013.01 - EP US); **C25D 13/22** (2013.01 - EP US); **F01D 5/005** (2013.01 - EP US); **F01D 5/288** (2013.01 - EP US); **F05D 2220/30** (2013.01 - US); **F05D 2230/30** (2013.01 - US); **F05D 2230/40** (2013.01 - US); **F05D 2230/90** (2013.01 - EP US); **F05D 2300/20** (2013.01 - US); **F05D 2300/5023** (2013.01 - US)

Citation (examination)

DE 10335406 A1 20050217 - MTU AERO ENGINES GMBH [DE], et al

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)

WO 2015114227 A1 20150806; BR 112016017562 A2 20170808; BR 112016017562 B1 20220412; CA 2938031 A1 20150806; CA 2938031 C 20220510; CN 106414813 A 20170215; CN 106414813 B 20190430; EP 3099848 A1 20161207; EP 3099848 B1 20210825; EP 3789518 A1 20210310; EP 3789518 B1 20231129; RU 2016135017 A 20180305; RU 2016135017 A3 20180822; RU 2678347 C2 20190128; US 2016348509 A1 20161201; US 9840914 B2 20171212

DOCDB simple family (application)

FR 2014053268 W 20141211; BR 112016017562 A 20141211; CA 2938031 A 20141211; CN 201480074456 A 20141211; EP 14828044 A 20141211; EP 20203886 A 20141211; RU 2016135017 A 20141211; US 201415115068 A 20141211