

Title (en)  
HYBRID THERMAL BARRIER COATING AND PROCESS OF MAKING SAME

Title (de)  
HYBRIDE WÄRMEDÄMMSCHICHT UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
REVÊTEMENT DE BARRIÈRE THERMIQUE HYBRIDE ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 2971240 A4 20161221 (EN)**

Application  
**EP 13878078 A 20131230**

Priority  
• US 201361781656 P 20130314  
• US 2013078186 W 20131230

Abstract (en)  
[origin: WO2014143363A1] A thermal barrier coating is applied to a turbine engine component having a substrate. The thermal barrier coating has a first layer which has a strain tolerant columnar microstructure at an interface with the substrate for spallation resistance and a second layer which is porous conduction and radiation thermally resistant at an outer surface of the thermal barrier coating.

IPC 8 full level  
**C23C 28/00** (2006.01); **C23C 4/11** (2016.01); **C23C 4/134** (2016.01); **C23C 28/04** (2006.01)

CPC (source: EP US)  
**C23C 4/11** (2016.01 - EP US); **C23C 4/134** (2016.01 - EP US); **C23C 28/042** (2013.01 - EP US)

Citation (search report)  
• [XAI] EP 2341166 A1 20110706 - SIEMENS AG [DE]  
• [XAI] US 2011244216 A1 20111006 - MEYER ALEXANDRA [DE], et al  
• [E] WO 2014007901 A2 20140109 - UNITED TECHNOLOGIES CORP [US]  
• [X] EP 2336381 A1 20110622 - UNITED TECHNOLOGIES CORP [US]  
• [XAI] EP 2450465 A1 20120509 - SIEMENS AG [DE]  
• See references of WO 2014143363A1

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)  
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DOCDB simple family (application)  
**US 2013078186 W 20131230**; EP 13878078 A 20131230; US 201314775031 A 20131230; US 201815996929 A 20180604