

Title (en)

METHODS OF FORMING A POROUS THERMAL BARRIER COATING

Title (de)

VERFAHREN ZUR FORMUNG EINER PORÖSEN WÄRMEBARRIERENBESCHICHTUNG

Title (fr)

PROCÉDÉS DE FORMATION D'UN REVÊTEMENT DE BARRIÈRE THERMIQUE POREUSE

Publication

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Application

EP 18209695 A 20181203

Priority

US 201715830062 A 20171204

Abstract (en)

A method for controlling the porosity parameter of porous thermal barrier coatings is presented. The method includes disposing a feedstock material on a substrate to form a porous thermal barrier coating. The feedstock material includes a gas-forming additive and a thermal barrier coating material. The disposing step further includes controlling the porosity parameter of the porous thermal barrier coating by controlling a feedstock material feed rate, an amount of the gas-forming additive in the feedstock material, a temperature of the disposed feedstock material on the substrate, or combinations thereof.

IPC 8 full level

C23C 4/02 (2006.01); **C23C 4/11** (2016.01); **C23C 4/134** (2016.01); **C23C 4/18** (2006.01)

CPC (source: EP US)

C23C 4/02 (2013.01 - EP US); **C23C 4/11** (2016.01 - EP US); **C23C 4/134** (2016.01 - EP US); **C23C 4/18** (2013.01 - EP US)

Citation (search report)

- [X1] EP 1580296 A2 20050928 - UNITED TECHNOLOGIES CORP [US]
- [X1] US 2005202168 A1 20050915 - MOVCHAN BORIS A [UA], et al
- [X1] EP 2113582 A2 20091104 - UNITED TECHNOLOGIES CORP [US]
- [X1] WO 2007121556 A1 20071101 - NAT RES COUNCIL OF CANADA [CA], et al
- [XA] EP 1327698 A2 20030716 - GEN ELECTRIC [US]

Designated contracting state (EPC)

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Designated extension state (EPC)

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