

Title (en)

Thermal barrier coating process.

Title (de)

Verfahren zum Aufbringen einer Wärmedämmschicht.

Title (fr)

Procédé pour la formation d'un revêtement faisant effet de barrière thermique.

Publication

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Application

EP 93310442 A 19931222

Priority

US 99692092 A 19921229

Abstract (en)

A process of providing a thermal barrier coating on a metal substrate comprises the steps of: a) applying a metallurgical bondcoat (12) to the substrate (10); b) depositing a first zirconia layer (14) on the bondcoat (12); c) depositing a second zirconia layer (16) on the first zirconia layer (12); and d) controlling substrate temperature during steps b) and c) to provide the first zirconia layer (14) with substantially zero porosity and to provide the second zirconia layer (16) with between about 10% and 20% porosity. A product produced by the process is also disclosed. <IMAGE>

IPC 1-7

C23C 4/10; **C23C 28/04**

IPC 8 full level

C23C 4/02 (2006.01); **C23C 4/10** (2006.01); **C23C 28/00** (2006.01)

CPC (source: EP KR)

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Citation (search report)

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