

Title (en)

Thermal barrier coating with improved underlayer and articles having this thermal barrier coating

Title (de)

Wärmehemmende Beschichtung mit verbesserter Unterschicht und Gegenstände mit dieser Wärmehemmende Beschichtung

Title (fr)

Revêtement de barrière thermique à sous-couche améliorée et pièces revêtues par une telle barrière thermique

Publication

**EP 0792948 B1 20010613 (FR)**

Application

**EP 97400436 A 19970227**

Priority

FR 9602536 A 19960229

Abstract (en)

[origin: EP0792948A1] Ceramic thermal coating is attached to a nickel-based superalloy substrate by an intermediate layer of aluminide of nickel and/or cobalt, containing at least one platinum group metal such as platinum, palladium and ruthenium, and also containing, at least where it contacts the ceramic, at least one other metal which promotes the formation of a layer of alpha -alumina. Also claimed is a piece of superalloy so coated.

IPC 1-7

**C23C 28/00**; **C23C 4/02**; **C23C 14/08**

IPC 8 full level

**C25D 3/56** (2006.01); **C23C 4/02** (2006.01); **C23C 28/00** (2006.01)

CPC (source: EP US)

**C23C 4/02** (2013.01 - EP US); **C23C 28/321** (2013.01 - EP US); **C23C 28/3215** (2013.01 - EP US); **C23C 28/345** (2013.01 - EP US); **C23C 28/3455** (2013.01 - EP US); **Y10T 428/12549** (2015.01 - EP US); **Y10T 428/12611** (2015.01 - EP US); **Y10T 428/12618** (2015.01 - EP US)

Citation (examination)

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Cited by

EP1327702A1; US7264887B2; WO03057944A3; EP0985745B1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0792948 A1 19970903**; **EP 0792948 B1 20010613**; CA 2196744 A1 19970829; CA 2196744 C 20040518; DE 69705141 D1 20010719; DE 69705141 T2 20020314; ES 2158459 T3 20010901; FR 2745590 A1 19970905; FR 2745590 B1 19980515; JP 3961606 B2 20070822; JP H09324278 A 19971216; US 5843585 A 19981201

DOCDB simple family (application)

**EP 97400436 A 19970227**; CA 2196744 A 19970204; DE 69705141 T 19970227; ES 97400436 T 19970227; FR 9602536 A 19960229; JP 4603597 A 19970228; US 80775597 A 19970227