

Title (en)

Two-layer ceramic coating system having an outer porous layer and depressions therein

Title (de)

Zweilagiges keramisches Schichtsystem mit äußerer poröser Schicht und Vertiefungen darin

Title (fr)

Système de couche céramique double couche avec couche extérieure poreuse et évidements à l'intérieur

Publication

EP 2733236 A1 20140521 (DE)

Application

EP 12192924 A 20121116

Priority

EP 12192924 A 20121116

Abstract (en)

The system (1) has an innermost heat insulating layer (16) that is provided with an internal porosity on a substrate (4). An outermost heat insulating layer (19) with an external porosity is provided on the innermost heat insulating layer. The outermost heat insulating layer has an absolute higher porosity than the innermost heat insulating layer. Several holes (20) and line-shaped depressions (21) are extended from the outer surface (22) into the depth of the outermost heat insulating layer and innermost heat insulating layer.

Abstract (de)

Durch die Verwendung einer äußeren keramischen Schicht (19) mit einer höheren Porosität und die Einbringung von Löchern und Vertiefungen in die äußerste porösere keramische Wärmedämmschicht werden in einfacher Art und Weise Laufsichten hergestellt, die gleiche oder verbesserte Eigenschaften aufweisen und günstiger sind.

IPC 8 full level

C23C 4/10 (2006.01); **C23C 4/18** (2006.01); **C23C 30/00** (2006.01)

CPC (source: EP)

C23C 4/11 (2016.01); **C23C 4/18** (2013.01); **C23C 30/00** (2013.01)

Citation (applicant)

- EP 1204776 B1 20040602 - SIEMENS AG [DE], et al
- EP 1306454 A1 20030502 - SIEMENS AG [DE]
- EP 1319729 A1 20030618 - SIEMENS AG [DE]
- WO 9967435 A1 19991229 - SIEMENS AG [DE], et al
- WO 0044949 A1 20000803 - SIEMENS AG [DE], et al
- US 6024792 A 20000215 - KURZ WILFRIED [CH], et al
- EP 0892090 A1 19990120 - SULZER INNOTEC AG [CH]
- EP 0486489 B1 19941102 - SIEMENS AG [DE]
- EP 0786017 B1 19990324 - SIEMENS AG [DE]
- EP 0412397 B1 19980325 - SIEMENS AG [DE]
- EP 1306454 A1 20030502 - SIEMENS AG [DE]

Citation (search report)

- [XA] EP 1247941 A1 20021009 - SIEMENS AG [DE]
- [XA] EP 1283278 A2 20030212 - SIEMENS WESTINGHOUSE POWER [US]
- [XA] WO 2011103927 A1 20110901 - SIEMENS AG [DE], et al
- [XA] WO 2007112783 A1 20071011 - SIEMENS AG [DE], et al
- [IA] US 2003211354 A1 20031113 - SUBRAMANIAN RAMESH [US], et al
- [A] EP 1564537 A1 20050817 - SIEMENS AG [DE]
- [A] EP 2009131 A1 20081231 - MITSUBISHI HEAVY IND LTD [JP]
- [A] EP 2275645 A2 20110119 - ROLLS ROYCE CORP [US]

Cited by

DE102015222808A1; WO2017076731A1; WO2016105327A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2733236 A1 20140521

DOCDB simple family (application)

EP 12192924 A 20121116