

Title (en)

IMPROVED ADHESION OF THERMAL SPRAY COATINGS OVER A SMOOTH SURFACE

Title (de)

VERBESSERTE HAFTUNG VON THERMISCHEN SPRITZBESCHICHTUNGEN AUF EINER GLATTEN OBERFLÄCHE

Title (fr)

AMÉLIORATION DE L'ADHÉRENCE DE REVÊTEMENTS PAR PULVÉRISATION THERMIQUE SUR UNE SURFACE LISSE

Publication

EP 3438325 A1 20190206 (EN)

Application

EP 18184877 A 20180723

Priority

US 201715664446 A 20170731

Abstract (en)

A coated component (10) is generally provided, along with methods of forming such a coating system (20). The coated component (10) includes a substrate having a surface (25,27) with a coating system (20) thereon. The coating system (20) may include a columnar thermal barrier coating (TBC) (24) over the surface (25,27) of the substrate, with the columnar TBC (24) including surface-connected voids (30). An intermediate layer (26) is over the columnar TBC layer. The intermediate layer (26) has a surface (25,27) opposite of the columnar TBC (24) that is rougher than the surface (25,27) of the columnar TBC (24). A second TBC (28) is over the intermediate layer (26).

IPC 8 full level

C23C 4/134 (2016.01); **C23C 28/00** (2006.01); **C23C 28/04** (2006.01); **F01D 5/28** (2006.01)

CPC (source: CN EP US)

B05D 5/00 (2013.01 - CN); **B05D 7/54** (2013.01 - CN); **C23C 4/04** (2013.01 - US); **C23C 4/134** (2016.01 - EP US); **C23C 28/042** (2013.01 - EP US); **C23C 28/048** (2013.01 - EP US); **C23C 28/44** (2013.01 - EP US); **F01D 5/288** (2013.01 - EP US); **F05D 2230/31** (2013.01 - EP); **F05D 2230/312** (2013.01 - EP); **F05D 2230/313** (2013.01 - EP); **F05D 2230/90** (2013.01 - EP); **F05D 2250/63** (2013.01 - EP); **F05D 2300/21** (2013.01 - EP); **F05D 2300/2118** (2013.01 - EP)

Citation (search report)

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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

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