

Title (en)

Applying bond coat to engine components using cold spray

Title (de)

Auftragen einer Haftbeschichtung auf Motorbauteile mittels eines Kaltsprühverfahrens

Title (fr)

Dépôt d'une couche de liaison sur des organes de machine par pulvérisation à froid

Publication

EP 1705266 A3 20070117 (EN)

Application

EP 06251532 A 20060322

Priority

US 8838005 A 20050323

Abstract (en)

[origin: EP1705266A2] A process for applying a coating to a component (10) used in an engine is provided. The process includes the steps of providing a component (10) with at least one surface (24) to be coated, and depositing at least one layer of powder coating material onto the at least one surface (10) using a non-oxidizing carrier gas so that the powder coating material plastically deforms without melting and bonds to the at least one surface upon impact with the at least one surface. The process of the present invention has particular utility in applying bond coats to airfoil portions of turbine blades or vanes and to applying bond coats to combustion chamber liners.

IPC 8 full level

C23C 24/04 (2006.01); **F01D 5/00** (2006.01)

CPC (source: EP US)

C23C 24/04 (2013.01 - EP US); **F01D 5/288** (2013.01 - EP US); **F05D 2230/90** (2013.01 - EP US); **F05D 2300/611** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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