

Title (en)

Process for obtaining protective coatings for high temperature with high roughness and coating obtained

Title (de)

Verfahren zum Gewinnen von Beschichtungen zum Schutz gegen hohe Temperaturen und hohe Rauheit und gewonnene Beschichtung

Title (fr)

Processus pour obtenir un revêtement protecteur pour hautes températures avec rugosité élevée et revêtement obtenu

Publication

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Application

EP 08380344 A 20081226

Priority

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Abstract (en)

The invention describes a process which allows obtaining a protective coating against oxidation at high temperature comprising a layer of MCrAlY material wherein M is selected from the group consisting of Ni, Co, Fe and their mixtures, characterised by a high surface roughness in its outer part, and high density, cohesion and reduced oxidation in its inner part. The process comprises the thermal projection of MCrAlY-based powders by high frequency pulsed detonation techniques, at different projection distances, to form the compact and dense inner part and the rough outer part. The coatings obtained can be heat treated in an inert atmosphere and can be used as bonding for a thermal barrier layer.

IPC 8 full level

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