

Title (en)

MULTILAYER CERAMIC COATING FOR HIGH-TEMPERATURE THERMAL PROTECTION, IN PARTICULAR FOR AERONAUTICAL APPLICATION, AND METHOD FOR PRODUCING SAME

Title (de)

MEHRSCHTIGE KERAMIKBESCHICHTUNG FÜR HOCHTEMPERATURWÄRMESCHUTZ, INSBESONDERE ZUR AERONAUTISCHEN ANWENDUNG, UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

REVÊTEMENT CÉRAMIQUE MULTICOUCHE DE PROTECTION THERMIQUE À HAUTE TEMPÉRATURE, NOTAMMENT POUR APPLICATION AÉRONAUTIQUE, ET SON PROCÉDÉ DE FABRICATION

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Application

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Priority

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Abstract (en)

[origin: WO2017080948A1] The invention concerns a multilayer ceramic coating (11) for thermal protection intended to coat a surface of a substrate (10), characterised in that it comprises n consecutive ceramic layers (12, 13), n being an integer greater than or equal to 2, each of the n layers having a columnar, segmented or homogeneous architecture at the micrometre scale and having a finely structured or nanostructured microstructure. The invention also concerns a method for producing such a coating, the method being characterised in that each of the n ceramic layers of the coating is produced by spraying a suspension of submicrometric or nanometric particles by means of a suspension plasma spraying (SPS) method.

IPC 8 full level

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