

Title (en)

METHOD FOR PROTECTING A CARBON-CARBON COMPOSITE MATERIAL PART FROM OXIDATION

Title (de)

VERFAHREN ZUM SCHUTZ EINES KOHLENSTOFF-KOHLENSTOFF-VERBUNDSTOFFTEILS VOR OXIDATION

Title (fr)

PROCEDE DE PROTECTION CONTRE L'OXYDATION D'UNE PIECE EN MATERIAU COMPOSITE CARBONE/CARBONE

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Application

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Abstract (en)

[origin: WO2023031548A1] The invention relates to a method for protecting a carbon-carbon composite material part from oxidation, the method comprising the steps of: - applying (10) an impregnation composition comprising at least one metal phosphate to at least one portion of the outer surface of the part; - depositing (30), by means of a dry deposition process, a solid composition of an oxidation-resistant glass on at least one portion of the outer surface of the part, once the impregnation composition has been applied; and - conducting an impregnation heat treatment (40) in order to soften or melt the solid composition deposited by means of a dry deposition process, to allow the internal porosity of the part to be impregnated with the thus-softened or thus-melted composition, and to form an oxidation-resistant glass in the internal porosity of the part.

IPC 8 full level

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