

Title (en)

METHOD FOR MANUFACTURING A PART MADE OF CARBON/CARBON COMPOSITE MATERIAL WITH IMPROVED MECHANICAL PROPERTIES

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES TEILS AUS KOHLENSTOFF/KOHLENSTOFF-VERBUNDSTOFF MIT VERBESSERTEN MECHANISCHEN EIGENSCHAFTEN

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE PIÈCE EN MATÉRIAU COMPOSITE CARBONE/CARBONE AUX PROPRIÉTÉS MÉCANIQUES AMÉLIORÉES

Publication

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Application

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Abstract (en)

[origin: WO2022162320A1] Method for manufacturing a part made of carbon/carbon composite material with improved mechanical properties The invention relates to a method for manufacturing a part made of carbon/carbon composite material, which comprises: forming (100) a carbonaceous preform, partially densifying (200) the preform with a pyrocarbon matrix, thus forming a partially densified blank, impregnating (300) the partially densified blank with an impregnation solution comprising ceramic particles or ceramic precursors, and drying (400) the impregnated blank. In addition, the viscosity of the dispersion or impregnation solution is controlled in order to control the homogeneity of the distribution of the ceramic particles within the impregnated composite material part during drying.

IPC 8 full level

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