

Title (en)

METHOD FOR MANUFACTURING A PART MADE FROM CMC

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES AUS CMC GEFERTIGTEN TEILS

Title (fr)

PROCEDE DE FABRICATION D'UNE PIECE EN CMC

Publication

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Application

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Abstract (en)

[origin: WO2020201202A1] The invention relates to a method for manufacturing a part made from CMC, the method comprising at least: - coating a plurality of cables (2) with an interphase by transporting the cables through a treatment chamber (4) into which a gas phase (10) is injected, the cables being tensioned during transport and the interphase being formed by vapour phase deposition from the injected gas phase; - forming a fibrous preform by three-dimensional weaving using the cables coated with the interphase; and- forming a consolidated fibrous preform by treating the fibrous preform by vapour phase chemical infiltration to form a consolidation phase on the interphase, the consolidation phase comprising silicon carbide and having a Young's modulus greater than or equal to 350 GPa and a part made from CMC comprising at least: - a 3D woven fibrous reinforcement comprising a plurality of cables (2), the cables having a plurality of fibres which are individually coated with an interphase; and- a consolidation phase densifying the fibrous reinforcement and located on the interphase, the consolidation phase comprising silicon carbide and having a Young's modulus greater than or equal to 350 GPa, the consolidation phase containing no free silicon.

IPC 8 full level

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Citation (search report)

See references of WO 2020201202A1

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