Title (en)

STIFFENED PART FORMED FROM A THERMOSET COMPOSITE MATERIAL WITH A BOXED STRUCTURE AND MANUFACTURING METHOD

Title (de)

VERSTEIFTES TEIL AUS EINEM DUROPLASTISCHEN VERBUNDWERKSTOFF MIT SCHACHTELSTRUKTUR UND HERSTELLUNGSVERFAHREN

Title (fr)

PIECE RAIDIE EN MATERIAU COMPOSITE THERMODURCI A STRUCTURE CAISSONNEE ET PROCEDE DE FABRICATION

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Application

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Abstract (en)

[origin: WO2022013513A1] The invention relates to a stiffened part formed from at least two members of thermoset composite material including at least one body of a first structure and optionally a second structure, and the manufacturing method thereof, which comprises: for each body of the first structure, forming a fibre preform of the body and impregnating said body with a thermosetting resin or forming a pre-impregnated fibre preform, whereby a body formed from an uncured thermosetting composite material supported by a mandrel is obtained; optionally partially or fully polymerising at least one body supported by a mandrel; if the stiffened part comprises a second structure, providing the second structure formed from an uncured, partially uncured or fully uncured thermosetting composite material; if there is at least one member formed from a fully cured thermosetting composite material, depositing a layer of uncured thermosetting adhesive on an area where the member makes contact with another member of the part; joining the members forming the part, each member being juxtaposed with, or stacked upon, at least one other member; fully curing the assembly by heat treatment; removing the mandrel from each fully cured body.

IPC 8 full level

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