

Title (en)

MOULDING TOOL FOR PRODUCING A COMPOSITE MATERIAL PART USING A FLEXIBLE PREFORM COMPOSED OF A SKIN AND PROFILED PREFORMS FIRMLY ATTACHED TO SAID SKIN

Title (de)

FORMWERKZEUG ZUR HERSTELLUNG EINES VERBUNDWERKSTOFFTEILS UNTER VERWENDUNG EINER FLEXIBLEN VORFORM AUS EINER HAUT UND AN DER HAUT FIXIERTEN PROFILIERTEN VORFORMEN

Title (fr)

OUTILLAGE DE MOULAGE POUR LA REALISATION D'UNE PIECE EN MATERIAU COMPOSITE AU MOYEN D'UNE PREFORME SOUPLE COMPOSEE D'UNE PEAU ET DE PREFORMES PROFILEES SOLIDARISEES SUR LA DITE PEAU

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Application

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Abstract (en)

[origin: WO2012104084A1] The invention relates to a moulding tool for producing a composite material part by coating, by means of a matrix, a flexible preform comprising a skin, and profiled elements delimiting a plurality of three-dimensional meshes of polyhedral shapes. This moulding tool comprises a mould and a countermould made of a material having the same expansion coefficient as the preform. Furthermore, it comprises, for each three-dimensional mesh, a part for filling the latter, formed from a plurality of wedges (12-27) suitable for being interlocked and delimiting a free central volume (28, 29), and from a blocking part (40) suitable for ensuring a relative blocking of said blocking part and of the wedges (12-27), said wedges and blocking parts being produced from a material having an expansion coefficient suitable for obtaining a predetermined compaction of the preform for the polymerization temperature of the matrix.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2012104084A1

Citation (examination)

- WO 8903293 A1 19890420 - LOCKHEED CORP [US]
- FR 2602711 A1 19880219 - CAHORS APP ELEC [FR]

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