

Title (en)

Process for weaving thick reinforcement with several undelaminable layers for composite material and loom for its manufacture.

Title (de)

Verfahren zum Weben von dicker Armierung mit mehreren nicht-ablösbaren Schichten für Verbundmaterialien und Webmaschine für die Fabrikation.

Title (fr)

Procédé de tissage d'armature épaisse à couches multiples indélinables pour matériaux composites et machine à tisser pour sa mise en oeuvre.

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Application

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Abstract (en)

The subject of the invention is a process for weaving a thick reinforcement with multiple undelaminable layers of the structure of the 2.5 D or 3 D type, in which the warp threads pass successively through a lapping comb, through a calibrating comb and then through a dobby-type weaving unit, characterised in that, upstream of the calibrating comb (27), the warp threads (5) are separated into n superposed laps, n being equal to N-1 DIVIDED 2, and n being the number of layers of the said reinforcement, so as to cause N-1 DIVIDED 2 warp threads (5) to pass into each tooth of the calibrating comb (27), and two adjacent threads of the same tooth of the calibrating comb (27) are threaded into the eyes (11) of two healds (12) of the same rank as two shafts of the dobby, so that the planes of displacement of two adjacent threads form with one another, during the formation of the thread, an angle which is sufficient to prevent the threads from catching with one another. The invention is used for weaving reinforcements made of composite materials. <IMAGE>

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