

Title (en)

METHOD OF MANUFACTURING A COMPOSITE, ESPECIALLY A BULLETPROOF COMPOSITE, AND COMPOSITE OBTAINED

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES VERBUNDSTOFFES, INSBESONDERE EINES KUGELSICHEREN VERBUNDSTOFFES, UND DAMIT ERHALTER VERBUNDSTOFF

Title (fr)

PROCÉDÉ DE FABRICATION D'UN MATÉRIAU COMPOSITE, NOTAMMENT POUR LA PROTECTION BALISTIQUE, ET MATÉRIAU COMPOSITE OBTENU

Publication

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Application

EP 08805945 A 20080605

Priority

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Abstract (en)

[origin: US2010215953A1] The subject of the present invention is a method of manufacturing a composite (8) comprising a textile reinforcement (7) and a polymer matrix, especially a bulletproof composite. Said method characteristically comprises: a step of forming the textile reinforcement (7) by 2.5D weaving of first yarns with second yarns in a defined weave (A1/1), said second yarns being of a thermosetting polymer and said first yarns being high-performance yarns, so as to obtain an interlock fabric (7); and then a heat treatment during which said interlock fabric (7) is subjected to specified temperature and pressure conditions so as to melt said second yarns in order to form the polymer matrix, without impairing the first yarns.

IPC 8 full level

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