

Title (en)  
REINFORCEMENT FOR COMPOSITE MATERIALS AND MEHTOD FOR MAKING THE REFORCEMENT

Title (de)  
VERSTÄRKUNG FÜR VERBUNDMATERIALIEN UND VERFAHREN ZUR HERSTELLUNG DER VERSTÄRKUNG

Title (fr)  
RENFORT POUR MATERIAUX COMPOSITES ET PROCEDE DE FABRICATION DUDIT RENFORT

Publication  
**EP 1753613 A2 20070221 (EN)**

Application  
**EP 05785559 A 20050610**

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Abstract (en)  
[origin: WO2005123381A2] A reinforced composite structure is disclosed comprising at least a reactive resin, thermosetting system or other suitable resin composition sandwiched between two metal, thermoplastic or ceramic substrate materials. The structure can also be modified through the addition of one or more fabrics, metallic meshes, fibers, polymer spacers or other suitable materials positioned within the resin composition and sandwiched between the substrate materials. The resulting structure comprises a composite with reduced thickness and weight as compared to solid metal panels of corresponding flexural strength. The composition of the structure also allows for the tailoring of the properties to affect sound abatement, insulation, strength, and toughness among other characteristics. The structure can be formed and cut to shape to fit any of a number of suitable applications such as ceiling tiles and bulkhead panels in marine vessels.

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