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(54) **METHOD OF MAKING A THREE-DIMENSIONALLY REINFORCED CELLULAR MATRIX COMPOSITE**

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264/257; 264/258

(58) **Field of Search** ..... 264/46.4, 46.6,  
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(57) **ABSTRACT**

A light-weight and impact-resistant composite material formed from a three-dimensional textile structure preform comprising at least three systems of yarns that define a plurality of interstices within the textile structure. A cellular matrix material impregnates the textile structure so as to fill the interstices of the three-dimensional textile structure and to coat at least a portion of the surface area thereof.

**9 Claims, 9 Drawing Sheets**

