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LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW,
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(54) Title: COMPOSITE LAMINATE AND METHOD OF MANUFACTURE

(57) Abstract: A composite laminate is made by providing at least a first composite ply and a second composite ply, each having longitudinally oriented fibers in a thermoplastic matrix. The second composite ply is disposed on, and in transverse relation to, the first composite ply. Preferably, the second ply is disposed at 90° relative to the first ply. An article can be manufactured by providing a core material and applying a reinforcing material to a portion of the core material. The reinforcing material is a reinforcing composite ply or a composite laminate as described herein. Optionally, the core material is a prepreg that may be a composite laminate.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MILES L ET AL: "New continuous fibre thermoplastic technology for rail car application" COMPOSITES.PLASTIQUES RENFORCES FIBRES DE VERRE TEXTILE, CENTRE DOC. VERRE TEXTILE PLAS RE. PARIS, FR, vol. 26, 1 July 2006 (2006-07-01), pages 32-33, XP009105562 ISSN: 0754-0876 the whole document ----- -/--	1,12,14

Further documents are listed in the continuation of Box C. See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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X	DAVIES P ET AL: "Fracture of glass/polypropylene laminates: influence of cooling rate after moulding" COMPOSITES, IPC BUSINESS PRESS LTD. HAYWARDS HEATH, GB, vol. 25, no. 9, 1 October 1994 (1994-10-01), pages 869-877, XP022800513 ISSN: 0010-4361 [retrieved on 1994-10-01] * MATERIALS * page 869, right-hand column - page 870, left-hand column; table 1	1,12
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X	"Review: JEC Composites Show 2006" REINFORCED PLASTICS, ELSEVIER ADVANCED TECHNOLOGY, NEW YORK, NY, US, vol. 50, no. 6, 1 June 2006 (2006-06-01), pages 28-34,37,39, XP005518266 ISSN: 0034-3617 * Structural Panels * page 37	1,4,12-17
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X	US 2004/092183 A1 (GEVA SHALOM [IL] ET AL) 13 May 2004 (2004-05-13) paragraphs [0033] - [0089]; figures paragraphs [0049] - [0074], [0076]; examples I, VII-IV	1,12-16
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X	<p>G.REYES VILLANUEVA, W.J. CANTWELL: "The high velocity impact response of composite and FML-reinforced sandwich structures" COMPOSITES SCIENCE AND TECHNOLOGY, vol. 64, 2004, pages 35-54, XP002496750 * Experimental Procedure* page 36, right-hand column, paragraph 2 - page 38, paragraph 1; figures; tables 1-3</p>	<p>1,4,12, 15,17</p>
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Information on patent family members

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