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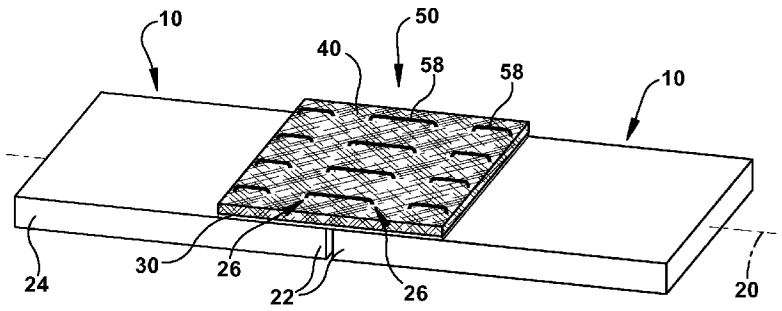


Fig. 1

(57) Abstract: A method of forming a composite structure (50) can include providing a plurality of composite panels (10) of material, each composite panel (10) having a plurality of holes (26) extending through the panel. An adhesive layer (30) is applied to each composite panel (10) and an adjoining layer (40) is applied over the adhesive layer (30). The method also includes stitching the composite panels (10), adhesive layer (30), and adjoining layer (40) together by passing a length of a flexible connecting element (58) into the plurality of holes (26) in the composite panels (10). At least the adhesive layer (30) is cured to bond the composite panels (10) together and thereby form the composite structure (50).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

F16B 5/12(2006.01)i, F16B 12/00(2006.01)i, B64F 5/00(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
F16B 5/12; E04B 1/61; B62D 27/00; F41H 5/00; B32B 37/12; B32B 3/12; B60N 2/00; F41H 5/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: layer, panel, adhesive and stitch.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002-0180238 A1 (GERALD ALLEN SILL) 05 December 2002 See paragraph 23 - paragraph 40 and figures 1 - 5.	1-22
Y	KR 10-2009-0029167 A (THE BOEING COMPANY) 20 March 2009 See paragraph 9 - paragraph 19 and figures 1 - 6.	1-22
A	JP 11-036456 A (ASAHI CHEM IND CO LTD) 09 February 1999 See paragraph 7 - paragraph 13 and figures 1 - 6.	1-22
A	US 04256790 A (LACKMAN; LESLIE M. et al.) 17 March 1981 See column 3, line 34 - column 6, line 53 and figures 1 - 8.	1-22
A	US 2009-0278371 A1 (FUCHS JOHN P. et al.) 12 November 2009 See paragraph 15 - paragraph 31 and figures 1 - 2B.	1-22

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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Information on patent family members

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