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United States Patent [19]

Pate et al.

[11] **Patent Number:** 5,632,844[45] **Date of Patent:** May 27, 1997[54] **ACOUSTIC LAMINA WALL COVERING**[75] **Inventors:** Joseph L. Pate, Columbus; David L. Fishel, Caledonia, both of Miss.[73] **Assignee:** GenCorp Inc., Fairlawn, Ohio[21] **Appl. No.:** 250,071[22] **Filed:** May 27, 1994**Related U.S. Application Data**

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[51] **Int. Cl.⁶** B32B 31/12; B32B 31/20[52] **U.S. Cl.** 156/290; 156/209; 156/309.3; 156/309.6; 181/294; 428/904.4[58] **Field of Search** 156/290, 324, 156/309.3, 309.6, 209, 219; 181/290, 294; 428/137, 163, 175, 196, 236, 238, 904.4[56] **References Cited****U.S. PATENT DOCUMENTS**

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A moisture-permeable acoustic lamina which is usable as a wall covering has a foraminous woven fabric layer adhered to a fabric backing by a discontinuous thermoplastic polymer layer. The woven fabric preferably has an embossed undulate outer surface to enhance the acoustic properties of the lamina and to impart an aesthetic textural appearance. The individual yarns of the woven fabric are preferably substantially uniformly coated with a polyvinyl chloride plastisol to impart stain and wear-resistance, inhibit the growth of molds, fungi, bacteria and the like, and to enhance the appearance of the exposed face of the lamina. The moisture-permeable lamina structure allows wall covering paste, used to adhere the lamina to a wall, to dry at an acceptable rate, yet does not allow paste to bleed through the foraminous woven fabric layer.

3 Claims, 1 Drawing Sheet