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Coates et al.

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(54) **THERMOFORMABLE ACOUSTIC SHEET** 4,888,234 A 12/1989 Smith et al. 428/234
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This patent is subject to a terminal dis-
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1998.

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Related U.S. Application Data

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(51) **Int. Cl.**
B32B 3/26 (2006.01)
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(57) **ABSTRACT**

(52) **U.S. Cl.** **428/219**; 428/137; 428/175;
428/221; 428/292.1

(58) **Field of Classification Search** 428/219,
428/221, 304.4; 181/284, 286, 290
See application file for complete search history.

A thermoformable acoustic sheet formed by a compressed
fibrous web includes high melt fibers and adhesive thermo-
plastic fibers in which the adhesive fibers are at least partially
melted so that in the compressed web the adhesive fibers at
least partially coat the high melt fibers and reduce the inter-
stitial space in the fiber matrix. Also included are methods of
producing a thermoformable acoustic sheet which includes
heating a fiber web including high melt and adhesive thermo-
plastic fibers to at least partially melt the adhesive fibers and
compressing the web to form a sheet so that the adhesive
fibers at least partially coat the high melt fibers to reduce the
interstitial space in the fiber matrix.

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64 Claims, 6 Drawing Sheets

