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United States Patent [19]

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Sherman

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[54] **AUXILIARY MOLDED FLOOR MATS**

[75] Inventor: **Raymond O. Sherman**, Fairfield, Ohio

[73] Assignee: **Nifty Products, Inc.**, Hamilton, Ohio

[*] Notice: This patent is subject to a terminal disclaimer.

4,579,764	4/1986	Peoples, Jr. et al. .	
4,721,641	1/1988	Bailey .	
4,828,898	5/1989	Bailey .	
5,034,258	7/1991	Grace .	
5,362,544	11/1994	Reuben .	
5,474,829	12/1995	Woosley .	
5,891,546	4/1999	Sherman	428/88

Primary Examiner—Alexander Thomas
Attorney, Agent, or Firm—Charles R. Wilson

[21] Appl. No.: **09/169,433**

[22] Filed: **Oct. 9, 1998**

[57] **ABSTRACT**

Related U.S. Application Data

[63] Continuation of application No. 08/818,713, Mar. 14, 1997, Pat. No. 5,891,546.

[51] Int. Cl.⁷ **B32B 3/02**

[52] U.S. Cl. **428/88**; 428/95; 428/99;
428/120; 428/192; 15/217; 296/97.23

[58] Field of Search 428/88, 95, 99,
428/120, 192; 15/217; 296/97.23

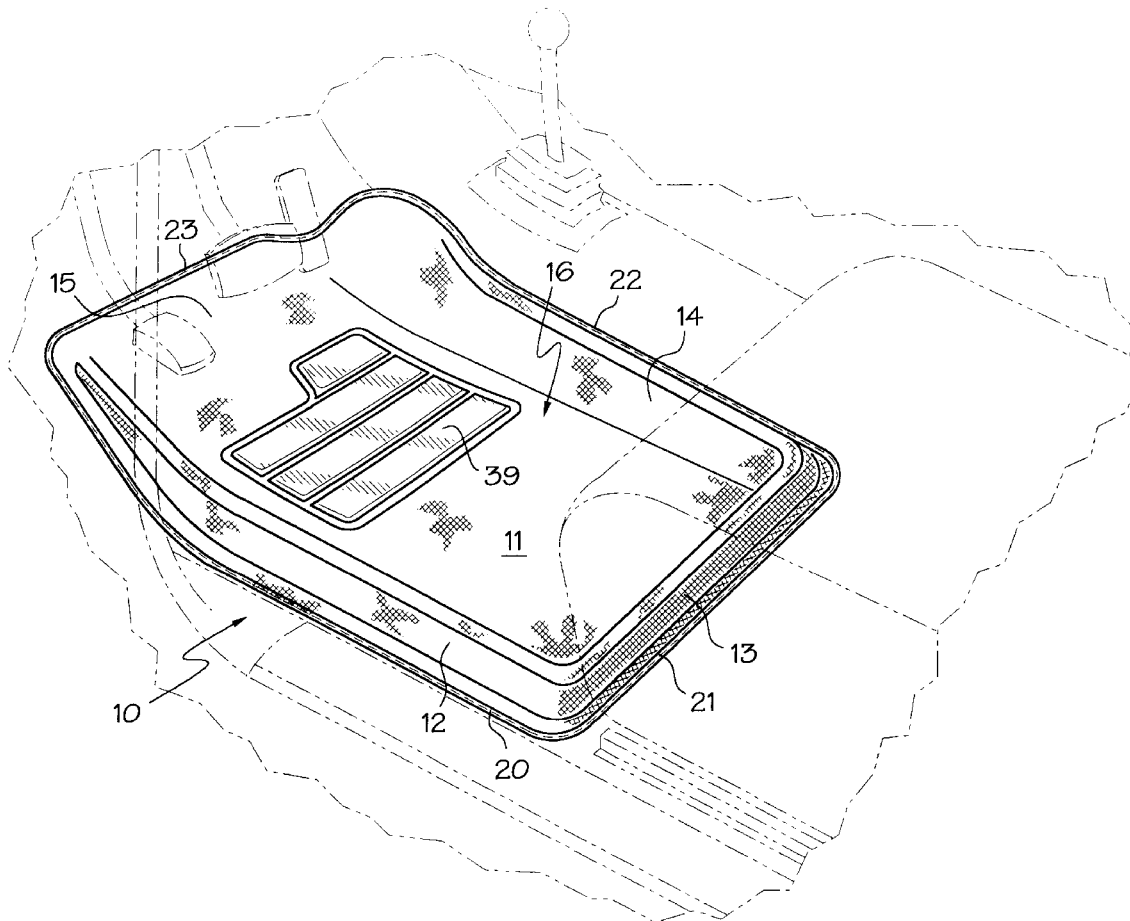
An auxiliary molded floor mat is produced to fit the carpeted floor compartment area of a van, pickup truck, sport utility vehicle or other vehicle having a floor which is substantially flat and even with a door sill. The floor mat is a one piece composite of a tufted carpet layer, a thermoplastic mid-layer and a non-slip substrate bottom layer. The floor mat has a flat base with raised walls near each of its outside edges which form a tray-like central area. At least one of the raised walls is double walled with a substantially horizontally extending floor engaging peripheral lip. Molding of the composite imparts a desired contoured shape which neatly fits the vehicle's floor compartment area without substantial folds or wrinkles. The tray-like central area of the floor mat catches debris. It is readily cleaned simply by removing the full mat from the vehicle.

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,382,986	5/1983	Reuben	428/88
4,529,639	7/1985	Peoples, Jr. et al. .	

11 Claims, 5 Drawing Sheets



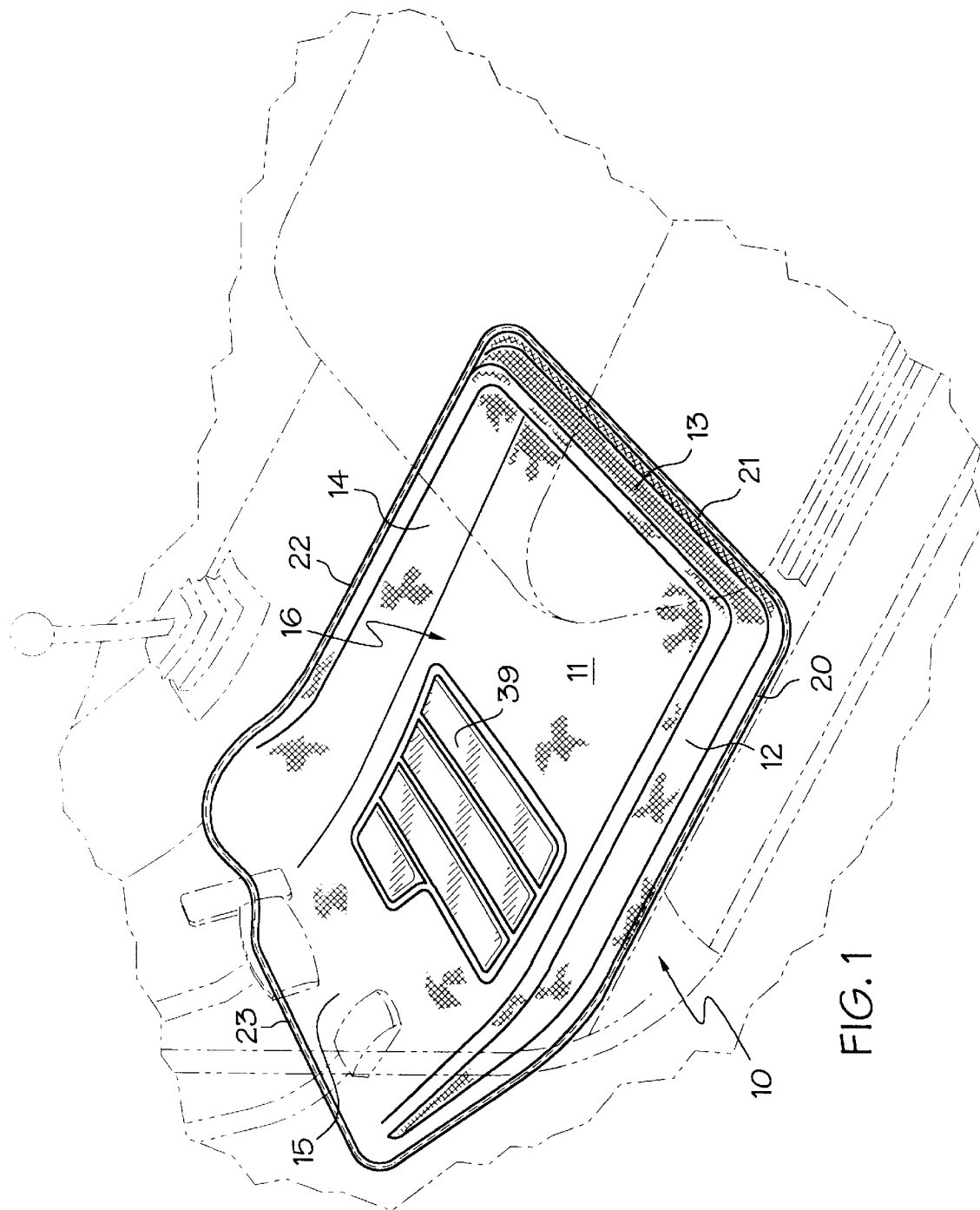


FIG. 1

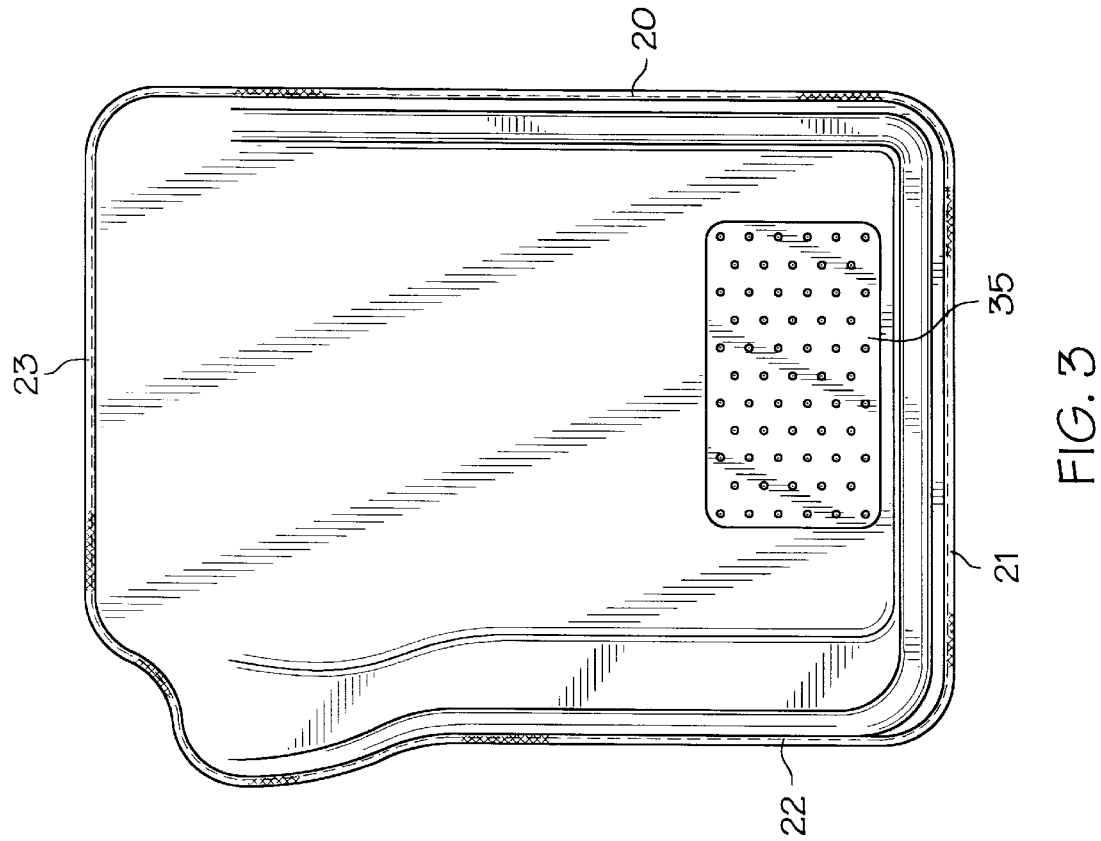


FIG. 3

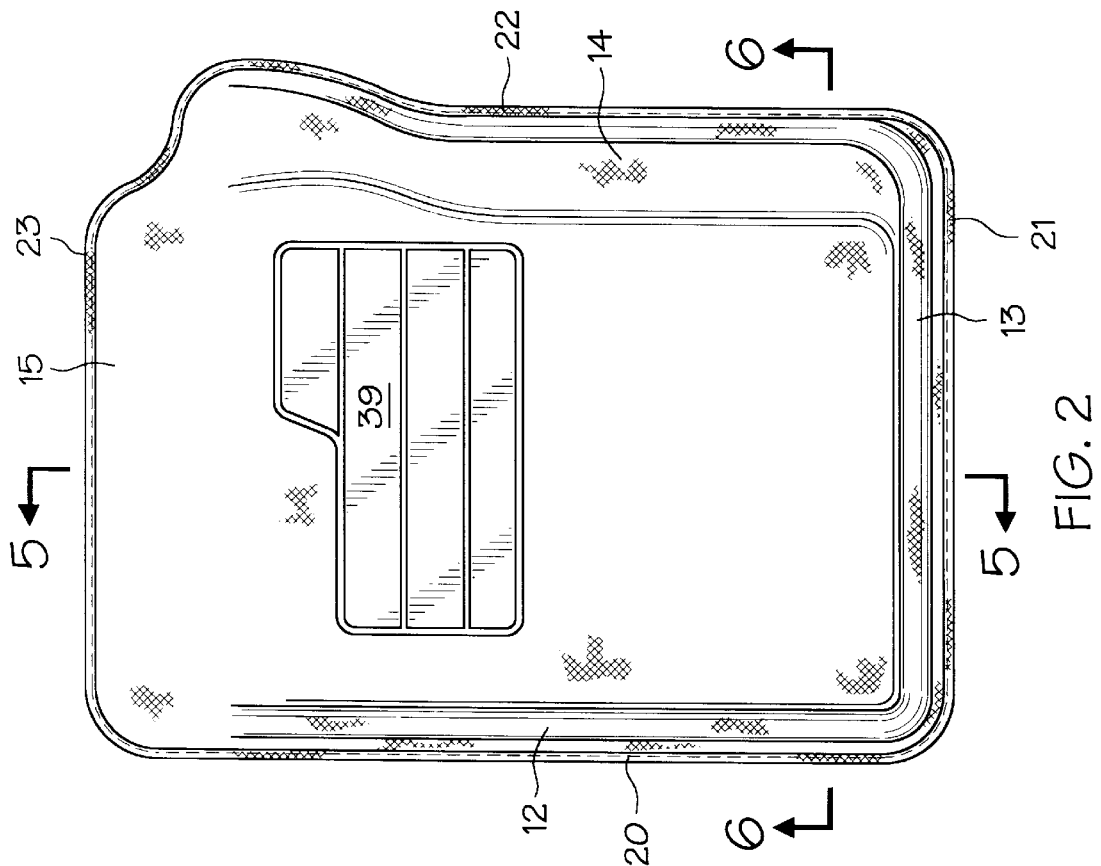


FIG. 2

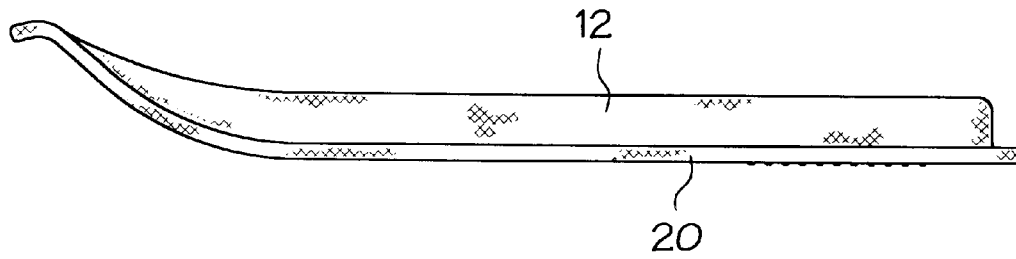


FIG. 4

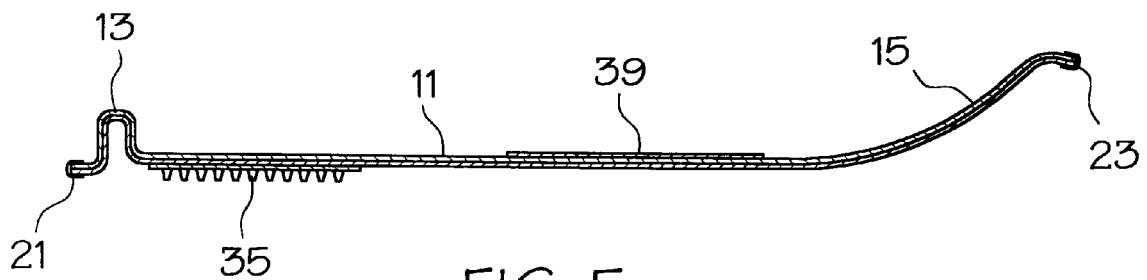


FIG. 5

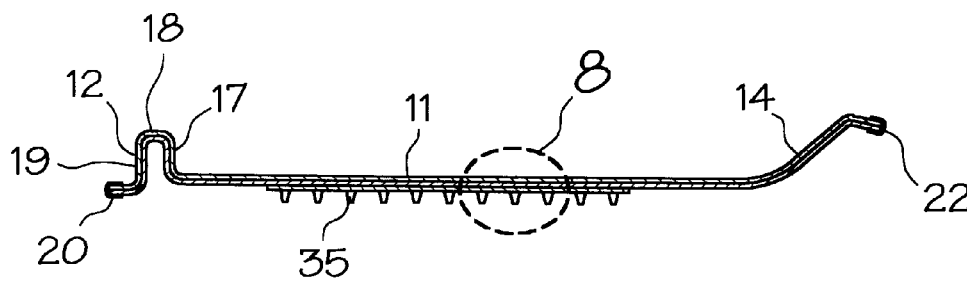


FIG. 6

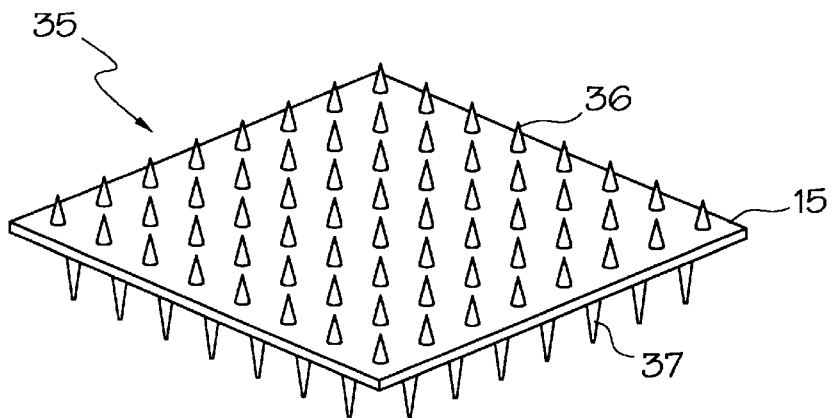


FIG. 7

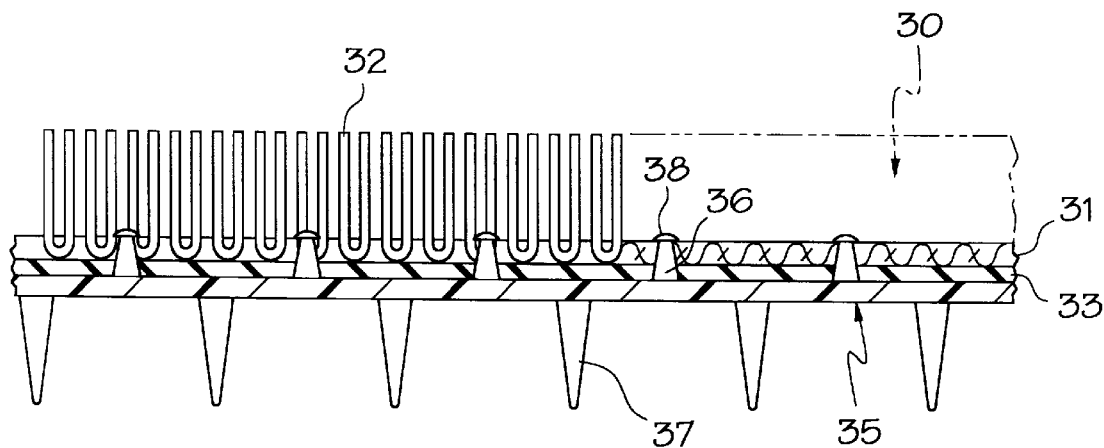


FIG. 8

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