



US006027782A

# United States Patent [19] Sherman

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[45] Date of Patent: **\*Feb. 22, 2000**

- [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.

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

- [21] Appl. No.: **09/169,433**
- [22] Filed: **Oct. 9, 1998**

### Related U.S. Application Data

- [63] Continuation of application No. 08/818,713, Mar. 14, 1997, Pat. No. 5,891,546.
- [51] Int. Cl.<sup>7</sup> ..... **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

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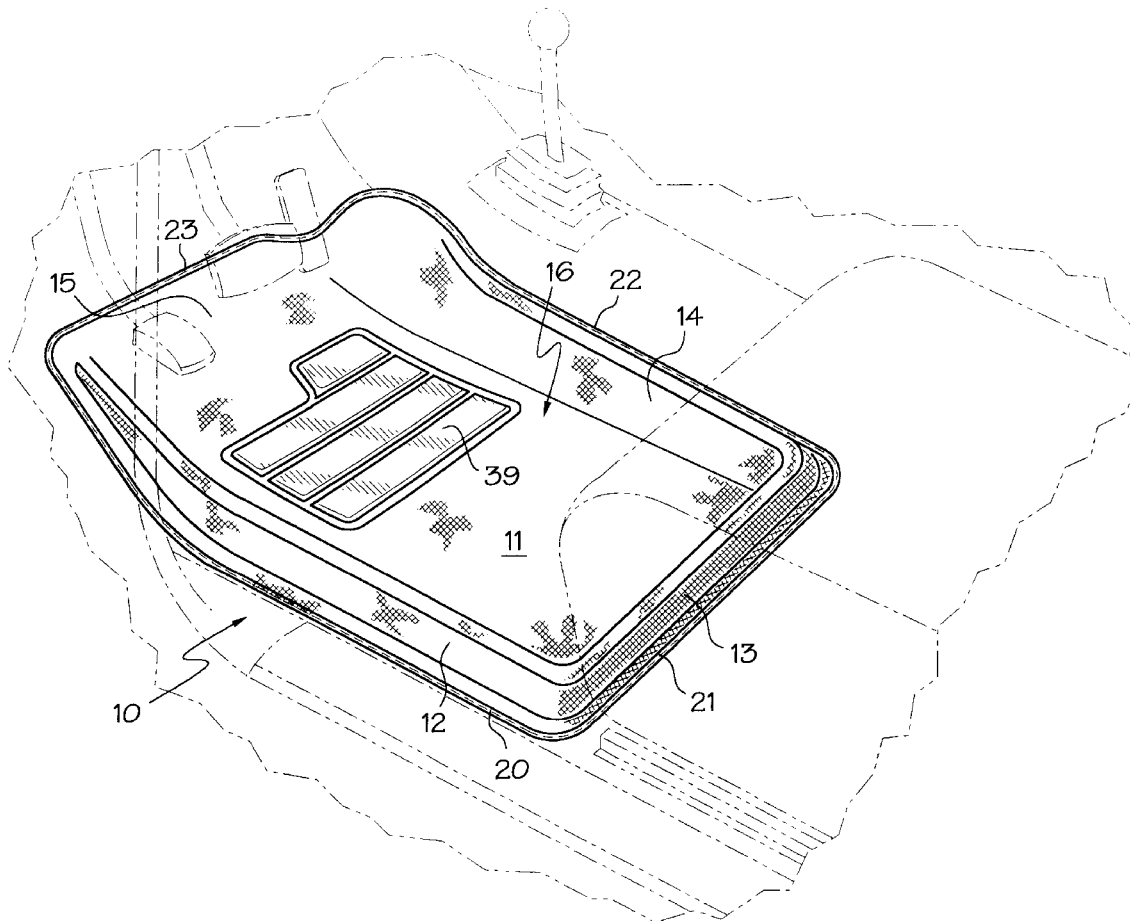
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### [57] ABSTRACT

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.

**11 Claims, 5 Drawing Sheets**



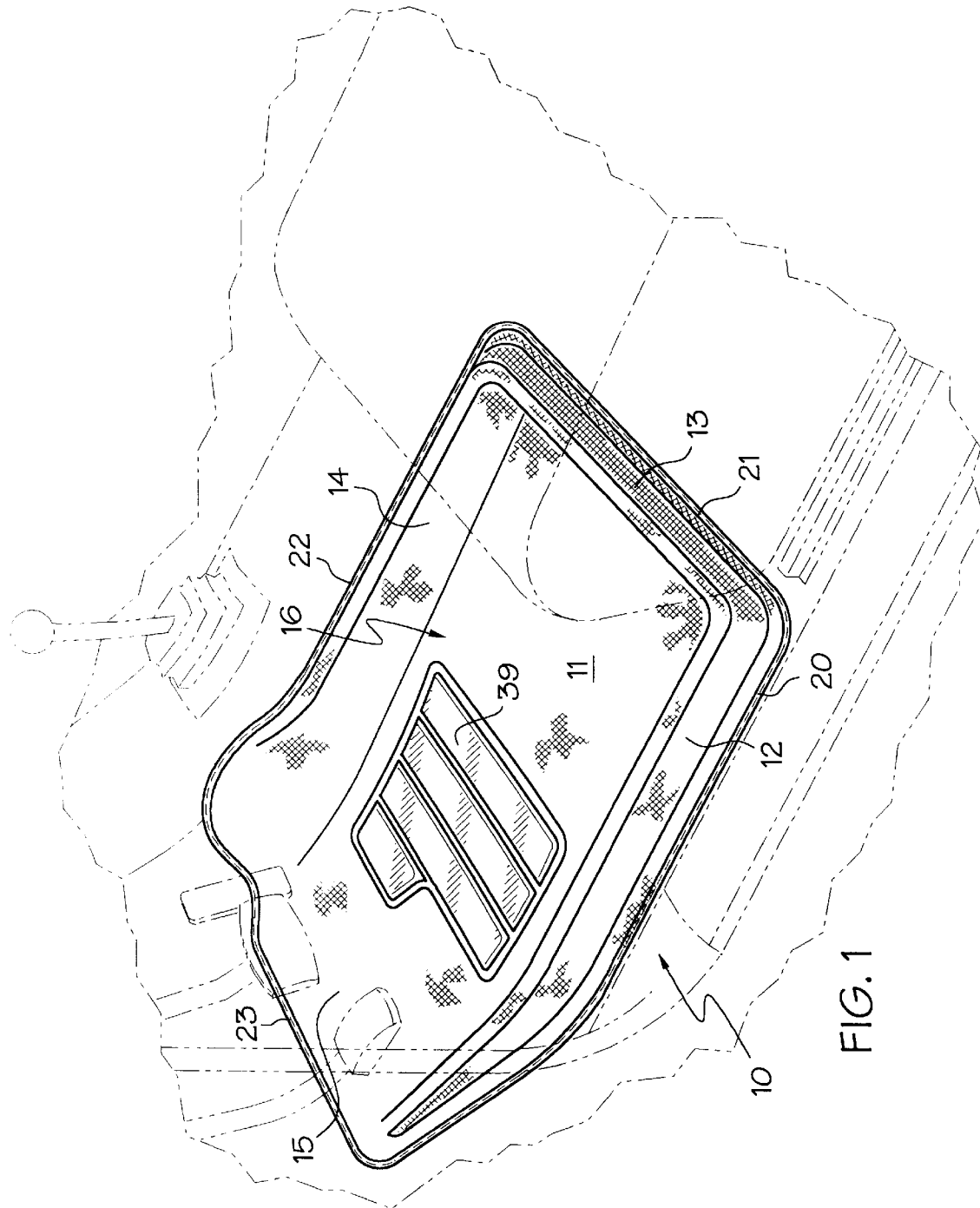


FIG. 1

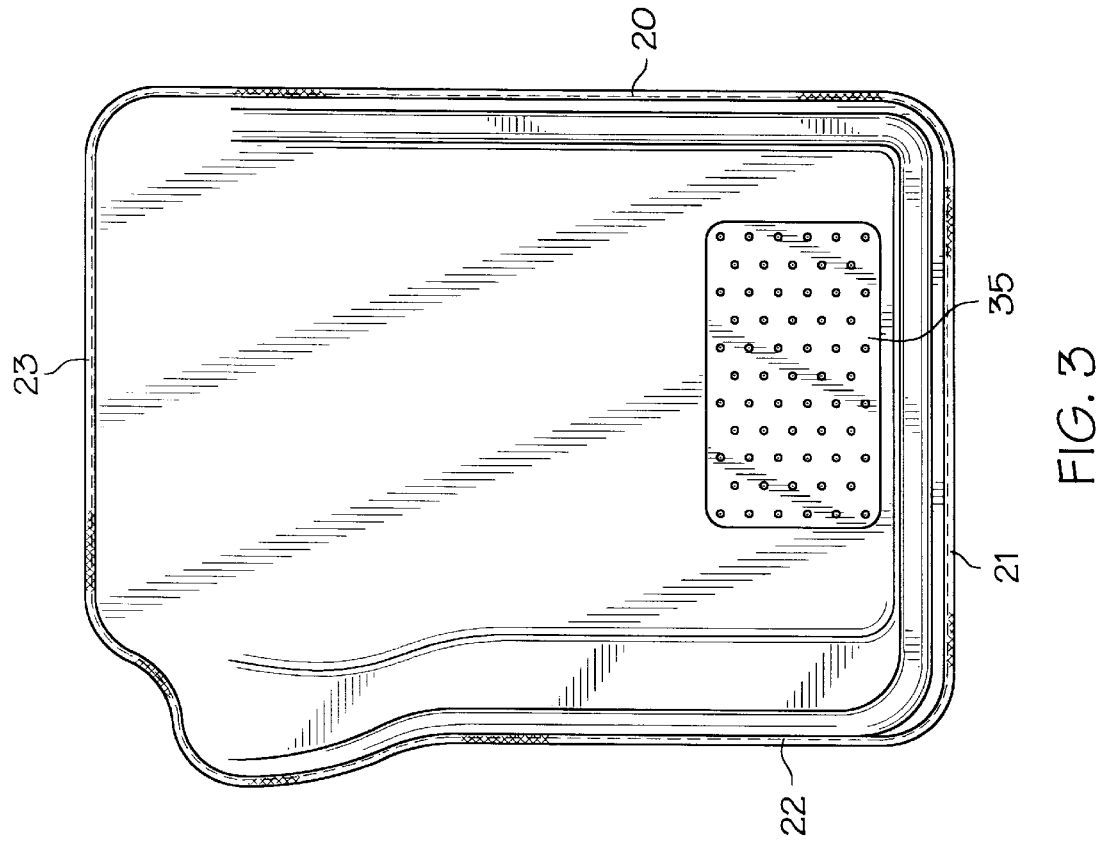


FIG. 3

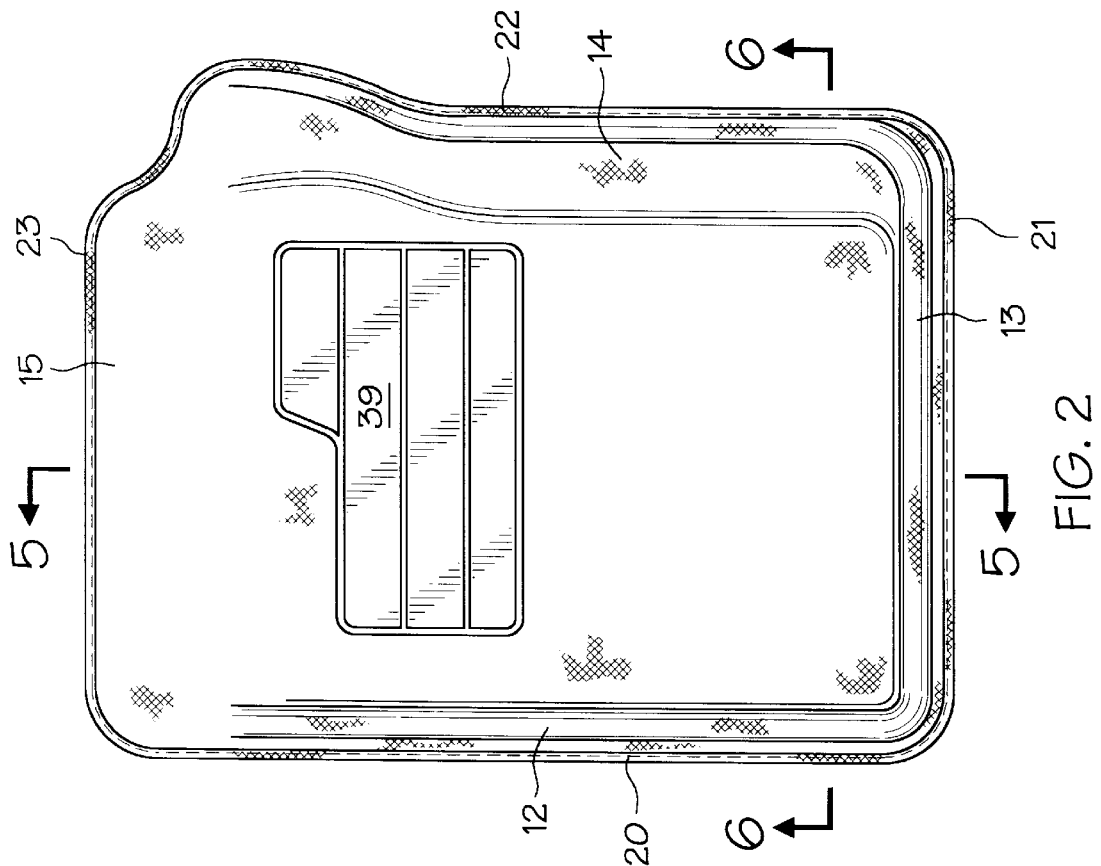


FIG. 2

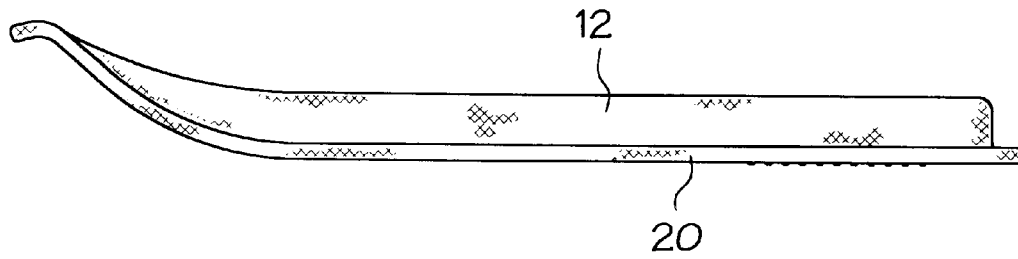


FIG. 4

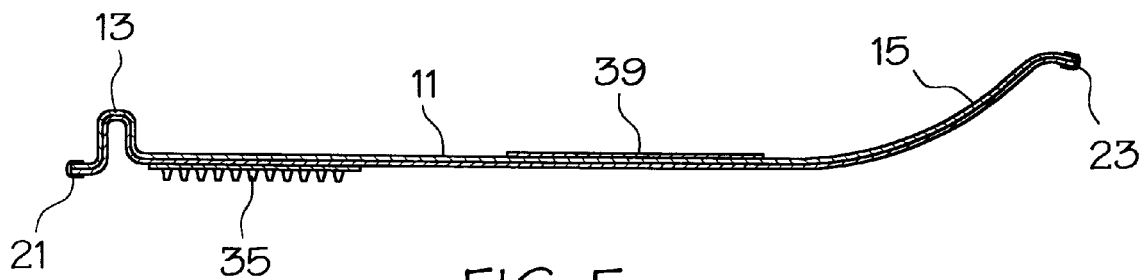


FIG. 5

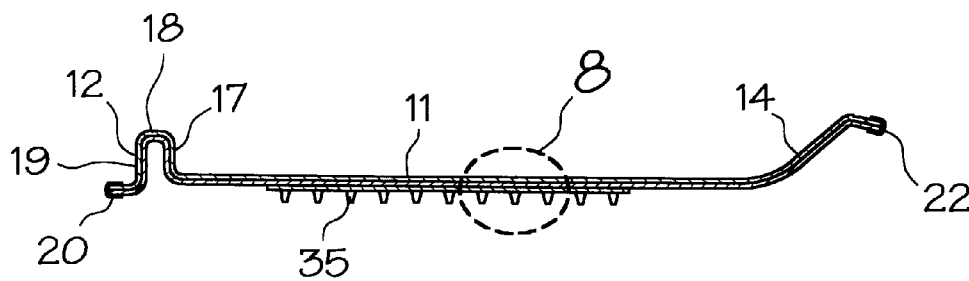


FIG. 6

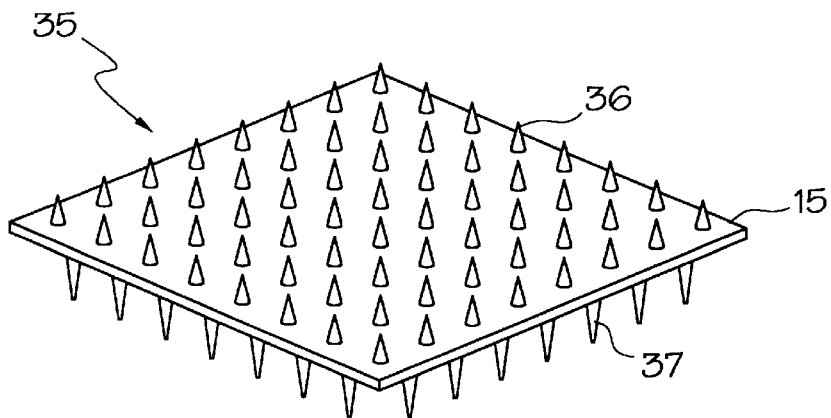


FIG. 7

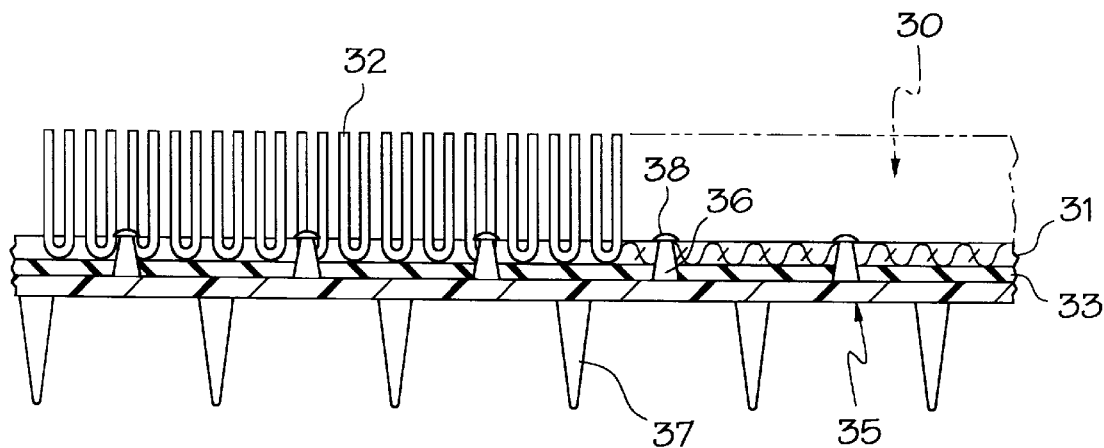


FIG. 8

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