



(12) **United States Patent**  
**MacNeil et al.**

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(54) **MOLDED VEHICLE FLOOR TRAY AND SYSTEM**

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(58) **Field of Classification Search**  
USPC ..... 296/75, 97.23, 39.1; 428/167, 169;  
15/215, 216  
See application file for complete search history.

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**B60R 21/02** (2006.01)

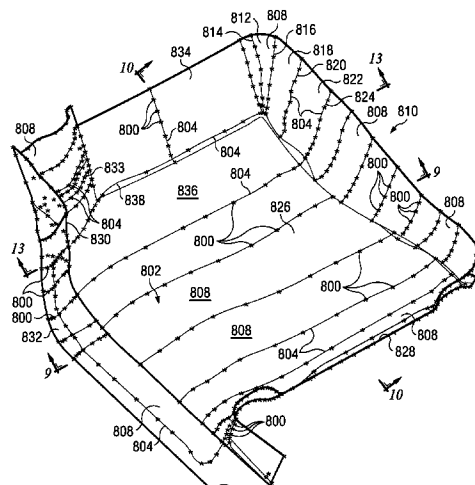
(57) **ABSTRACT**

A vehicle floor tray is molded from a sheet of polymeric material of substantially uniform thickness. A reservoir is formed in a portion of the central panel of the tray. Hollow upstanding baffles disposed in the reservoir impede movement of collected fluid. In a system embodiment including the floor tray and a vehicle foot well, upstanding first, second and third tray walls exhibit a close conformance to respective vehicle foot well walls, such that a large part of the external surface area of the first, second and third tray walls is within one-eighth of an inch of a respective vehicle foot well wall.

(52) **U.S. Cl.**

CPC ..... **B29D 99/0057** (2013.01); **B60N 3/048** (2013.01); **G06F 17/5086** (2013.01); **B60N 3/044** (2013.01); **B60R 21/02** (2013.01)

**15 Claims, 12 Drawing Sheets**



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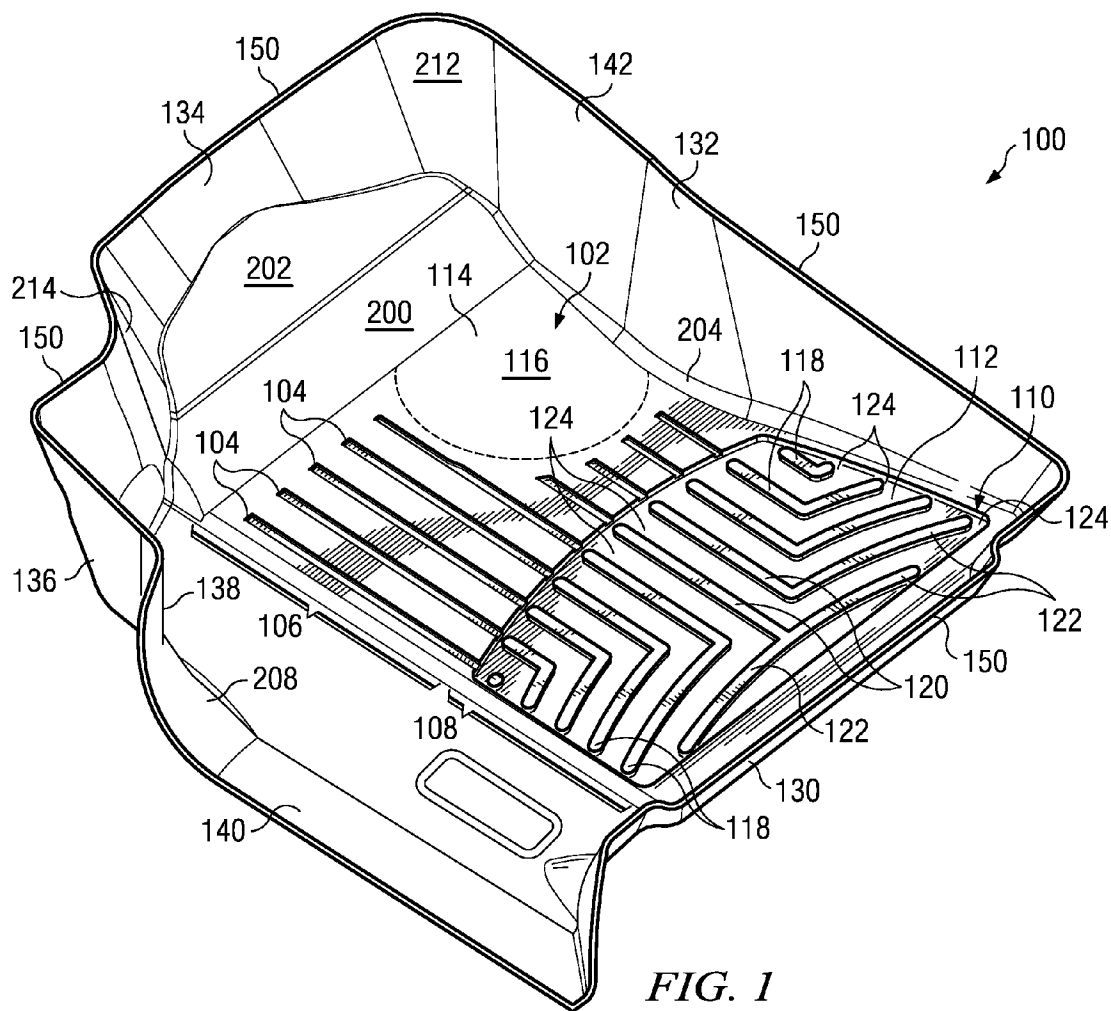
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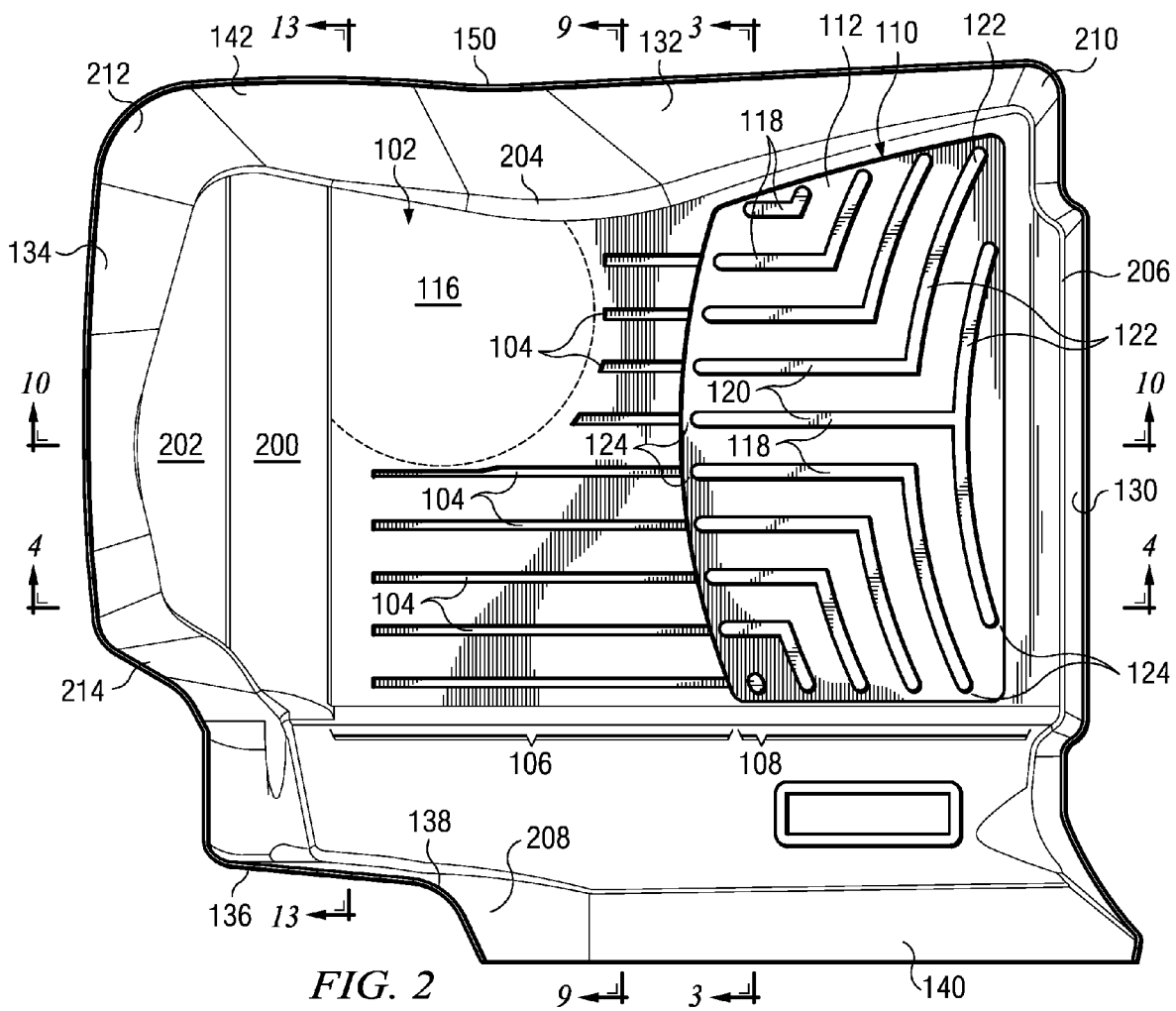
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**FIG. 1**



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