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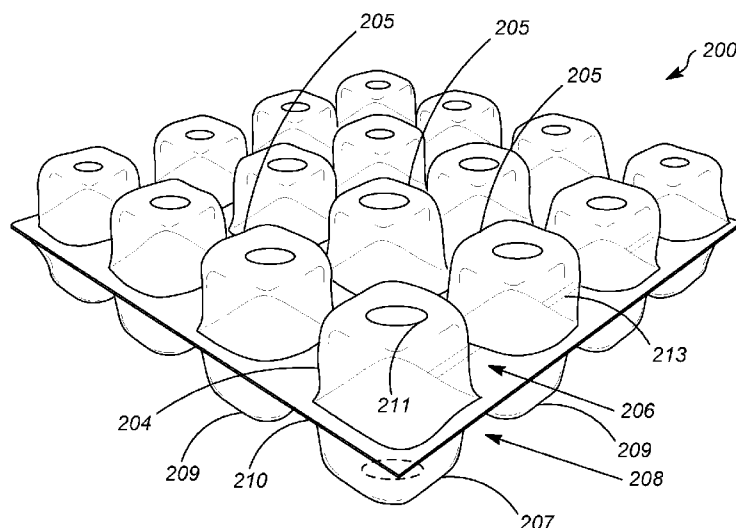
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[Continued on next page]

(54) **Title:** CELLULAR CUSHION



(57) **Abstract:** A cellular cushioning system (200) includes cells or support units (204) arranged in one or more stacked arrays (206, 208). The cells are hollow chambers that resist deflection due to compressive forces, similar to compression springs. The arrays are attached to one or more intermedial binding layers (210). The intermedial binding layer(s) links the cells together while allowing the cells to deform independently of one another. An external load compresses one of the void cells within an independent compression range without significantly compressing at least one void cell adjacent the compressed void cell. The independent compression range is the displacement range of the compressed void cell that does not significantly affect the compression of adjacent void cells (205, 207). If the void cell is compressed beyond the independent compression range, the intermedial binding layers may be deflected and/or the void cells adjacent the compressed void cell may be compressed.



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