United States Patent [19]

Michaels

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[54] **DISPENSER FOR DELIVERING FLUIDS AND SOLIDS**

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[51] **Int. Cl.**[3] **A61M 7/00**

[52] **U.S. Cl.** **128/260**; 222/95; 222/105; 222/214; 222/386.5

[58] **Field of Search** 128/127-131, 128/260-261; 222/95, 105, 214, 386.5

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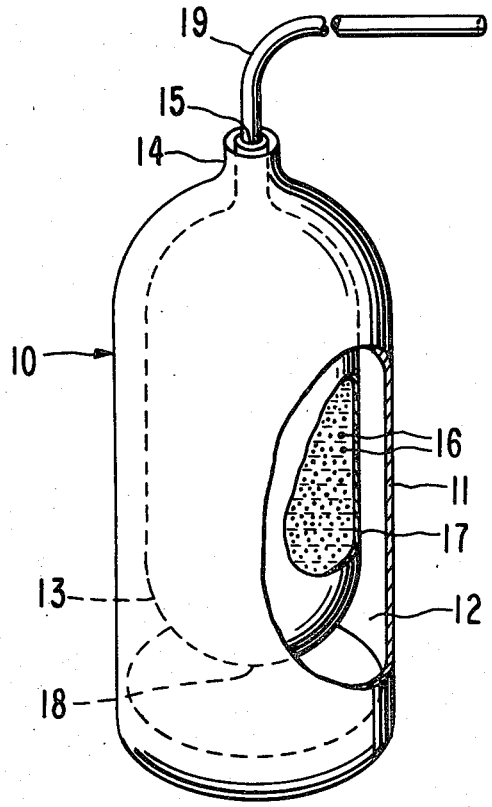
[57] **ABSTRACT**

An osmotically driven fluid dispenser is disclosed comprising a flexible container having a port for filling and emptying same, a layer of an osmotically effective solute on the container, and a shape retaining microporous housing having a fluid rate controlling material in its micropores. The dispenser can be used for delivering fluids and solid agents, and as a displacement pump.

15 Claims, 2 Drawing Figures