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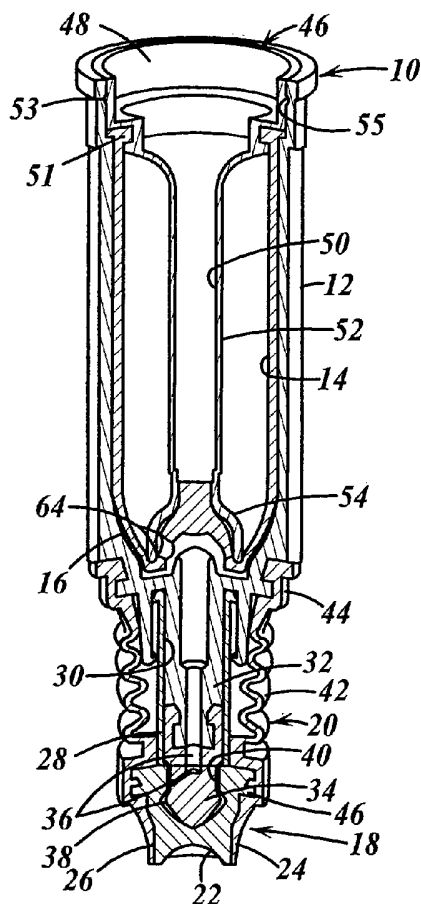
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[Continued on next page]

(54) Title: DISPENSER AND APPARATUS FOR FILLING A DISPENSER



(57) Abstract: A dispenser for holding multiple doses of fluids or other substances, and for dispensing the substances, has a vial, a flexible member received within the vial, and a variable volume storage chamber formed between the bladder and vial. A filling valve is coupled in fluid communication with the storage chamber and defines (1) a normally closed, fluid-tight position hermetically sealing the storage chamber from the ambient atmosphere, and (2) an open position allowing the passage of fluid through the valve both to evacuate the storage chamber and to introduce fluid through the valve into the storage chamber. A pump is coupled in fluid communication with the storage chamber for pumping fluids out of the storage chamber. A dispensing valve is coupled in fluid communication with the pump and defines (1) a normally closed, fluid-tight position preventing the passage of fluid out of the dispenser, and (2) an open position for dispensing pumped fluid therethrough.



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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	US 6,726,389 B1 (LEE) 27 April 2004 (27.04.2004), see entire document.	1-54
A	US 1,613,898 A (METCALF et al.) 11 January 1927 (11.01.1927), see entire document.	1-54
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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"O"	document referring to an oral disclosure, use, exhibition or other means	"&"
"P"	document published prior to the international filing date but later than the priority date claimed	
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer Steven O. Douglas Telephone No. 703-308-0861