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GB 2302917 A FR 001477455 A  
US 6935844 B1 US 5938409 A  
US 2612118 A  
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(54) Title of the Invention: **A liquid dispenser**  
Abstract Title: **A liquid dispenser**

(57) A liquid dispensing mechanism adapted to achieve an increased inflow and an increased outflow rate and consisting of an inlet line adapted to receive liquid from an external reservoir, and adapted to release said liquid via an outlet line, said mechanism comprising a pressure chamber adapted to store liquid and provide liquid level to fall or rise as a function of pressure, before release; a buffer chamber adapted to connect with said pressure chamber by means of non-return valves, and further adapted to store liquid before it flows into said pressure chamber, in order to increase flow coefficient of inlet line; float member in said pressure chamber, adapted to sense level of liquid in said pressure chamber by means of position of said float member; multiple valve actuator assembly adapted to actuate a pre-defined configuration of valves, with a time-delay between engaging or disengaging subsequent valves, for controlled engaging or disengaging pressure in a predetermined format; snap action valve actuating mechanism comprising fastener elements adapted to actuate said multiple valve actuator assembly in correlation with position of said float member.

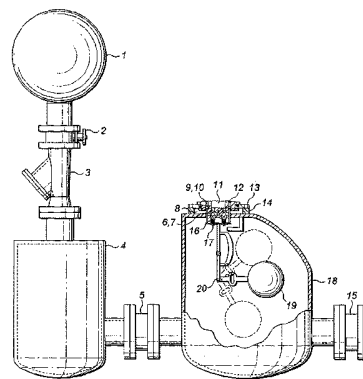


FIG. 1

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