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(54) Title: CONTROLLABLE LIQUID DISPENSING DEVICE**(57) Abstract**

A dispensing system for dispensing a quantity of material includes an inlet port to receive the material, an outlet port from which the material is dispensed from the dispensing system, a housing having an inner chamber with an adjustable volume, a first valve operable in one of an open mode of operation and a closed mode of operation. The first valve is disposed between the inlet port and the inner chamber in such a manner that when the first valve is operating in the open mode, material may flow from the inlet port into the inner chamber, and when the first valve is operating in the closed mode, material is prevented from flowing from the inlet port into the inner chamber. The dispensing system also includes a second valve operable in one of an open mode of operation and a closed mode of operation. The second valve is disposed between the outlet port and the inner chamber in such a manner that when the second valve is operating in the open mode, material may flow from the inner chamber to the outlet port, and when the second valve is operating in the closed position, material is prevented from flowing from the inner chamber to the outlet port.

