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(54) Title: DELIVERY SYSTEM FOR DISPENSING METERED VOLUMES OF PURE OR STERILE FLOWABLE SUBSTANCES

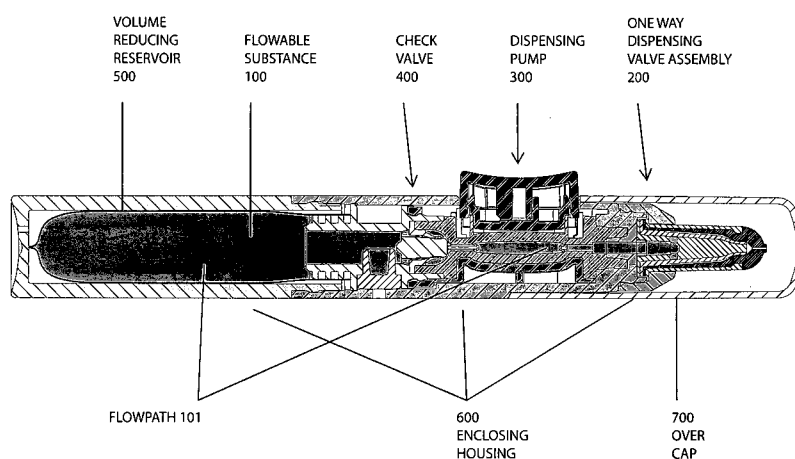


Fig. 1

(57) Abstract: A sealed delivery system for dispensing metered volumes of a pure or sterile flowable substance is presented. In exemplary embodiments of the present invention, a handheld sealed delivery system comprises a continuously sealing one-way valve assembly at a distal end, and a volume reducing reservoir at a proximal end. The pure or sterile flowable substance can be stored in the volume reducing reservoir. In operation, a user pushes down upon a push button driven actuator assembly, acting upon a metering pumping chamber, which is in fluid communication with the pure or sterile flowable substance stored in the volume reducing reservoir via a check valve. Depression of the push button driven actuator causes a dispensing pump to push a metered volume of flowable substance through the continuously sealing one way dispensing valve assembly.