A FLUID DISPENSING SYSTEM FOR DISPENSING A MIXED FORMULATION AND METHOD THEREOF

ABSTRACT

The present disclosure relates to a fluid dispensing system for dispensing a mixed formulation comprising a housing and a plurality of containers each configured to be partially received by the housing and each configured to contain a constituent fluid, wherein each of the plurality of containers includes a pump and a valve in communication with the respective container and a control element operably engaging with the pump for defining a predetermined amount of constituent fluid to be extracted from the respective container. It further includes a mixing chamber in fluid communication with the pump for receiving and mixing the predetermined amount of constituent fluids from the respective container and a plunger for operably engaging the pumps and the valves simultaneously so that actuation of the plunger causes the predetermined amounts of constituent fluids to be directed from the plurality of containers into the mixing chamber to generate the mixed formulation for dispensing via an outlet of the mixing chamber.

FIG. 9