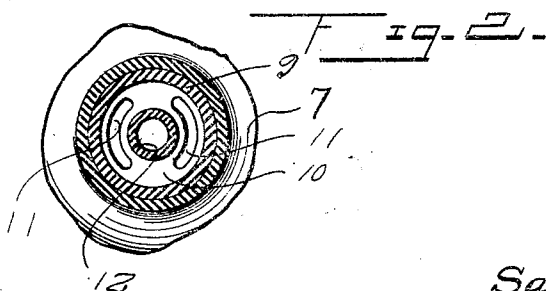
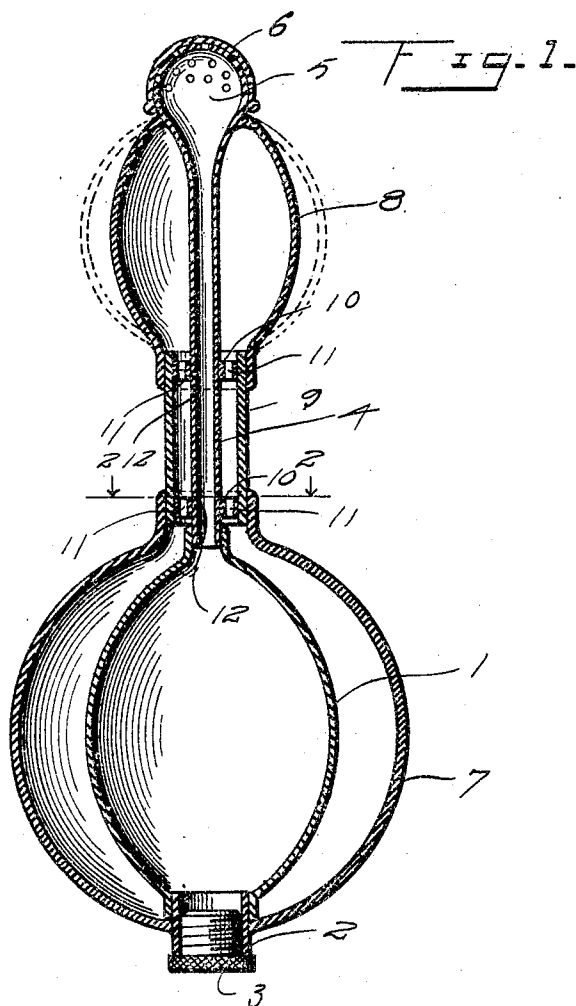


S. A. ICHILIAN.
 SYRINGE.
 APPLICATION FILED MAY 21, 1917.

1,235,142.

Patented July 31, 1917.



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UNITED STATES PATENT OFFICE.

SARKIS A. ICHILIAN, OF WASHINGTON, DISTRICT OF COLUMBIA.

SYRINGE.

1,235,142.

Specification of Letters Patent.

Patented July 31, 1917.

Application filed May 21, 1917. Serial No. 169,912.

To all whom it may concern:

Be it known that I, SARKIS A. ICHILIAN, citizen of the Empire of Turkey, residing at The Arno, Twentieth and L streets, in the city of Washington and District of Columbia, have invented certain new and useful Improvements in Syringes, of which the following is a specification.

This invention relates to a syringe adapted especially for the use of women, and of that type known as the expanding arm, the arm in my invention being in the form of an inflatable bulb entirely surrounding the discharge tube of the syringe, the nozzle projecting from an end of said bulb, the bulb being inflated by a second air containing bulb. The invention also includes the novel feature of inclosing the water bulb with the last mentioned air bulb, so that pressure of the air bulb for the purpose of forcing air into and expanding the "arm" also compresses the water bulb and discharges the water.

In the accompanying drawings:—

Figure 1 is a longitudinal section through the device.

Fig. 2 is a transverse section on the line 2—2 of Fig. 1.

In the drawings 1 designates a soft rubber bulb designed to act as a reservoir for the water supply. It is provided with a neck or filling vent 2 normally closed by a screw cap 3. From the other end of the bulb 1 extends a discharge tube 4 expanding into a rounded discharge head or nozzle 5 suitably perforated. The tube and head are preferably of hard rubber, or similar material.

A cap 6 is adapted to fit over the head 5 and close the openings therein during filling of the bulb 1, or until it is to be used.

The bulb 1 is inclosed within an air bulb, also of soft rubber or equivalent material, and the tube 4 and a part of the head are inclosed within or surrounded by a second inflatable air bulb 8 and a neck 9 connecting the two air bulbs. That portion of the tube 4 within the neck 9 is centered and spaced

from the neck by disks 10 having air slots 11 and a central opening 12 through which the tube 4 passes.

The operation of the device will be obvious.

When the bulb 7 is compressed air will be first forced through the neck 9 into the bulb 8 thereby inflating and distending the same, as indicated by dotted lines in Fig. 1. As the compression continues the bulb 1 will also be compressed and water, or any liquid that may be contained therein, will be discharged through the nozzle.

It will be noted that while compression of the bulb 7 both distends the bulb 8 and discharges the bulb 1, the bulb 8 will be inflated first, and this bulb will act also as a closure or sealing device for the parts into which said bulb are introduced.

The advantages of this particular construction will be obvious to those using or skilled in the manufacture or use of devices of this character.

What I claim is:—

1. In a device of the kind described, a liquid containing bulb, a discharge tube therefor, an air bulb inclosing the first mentioned bulb and a second air bulb surrounding a portion of the tube, and having free communication with the first air bulb.

2. A device of the kind described, a water bulb, a tube having a perforated discharge head, a cap for closing the perforations of the head, a pneumatic expanding device partially inclosing the tube, an air bulb, and a neck connecting the air bulb with the expanding device, the tube passing through and being centered in said neck.

3. In a device of the kind described, an air bulb, an inflatable bulb, a neck connecting the two bulbs, a liquid containing bulb arranged within the first mentioned bulb, and a discharge tube for the last mentioned bulb, said discharge tube passing through the neck and the second mentioned bulb, as and for the purpose set forth.

In testimony whereof I affix my signature.
SARKIS A. ICHILIAN.