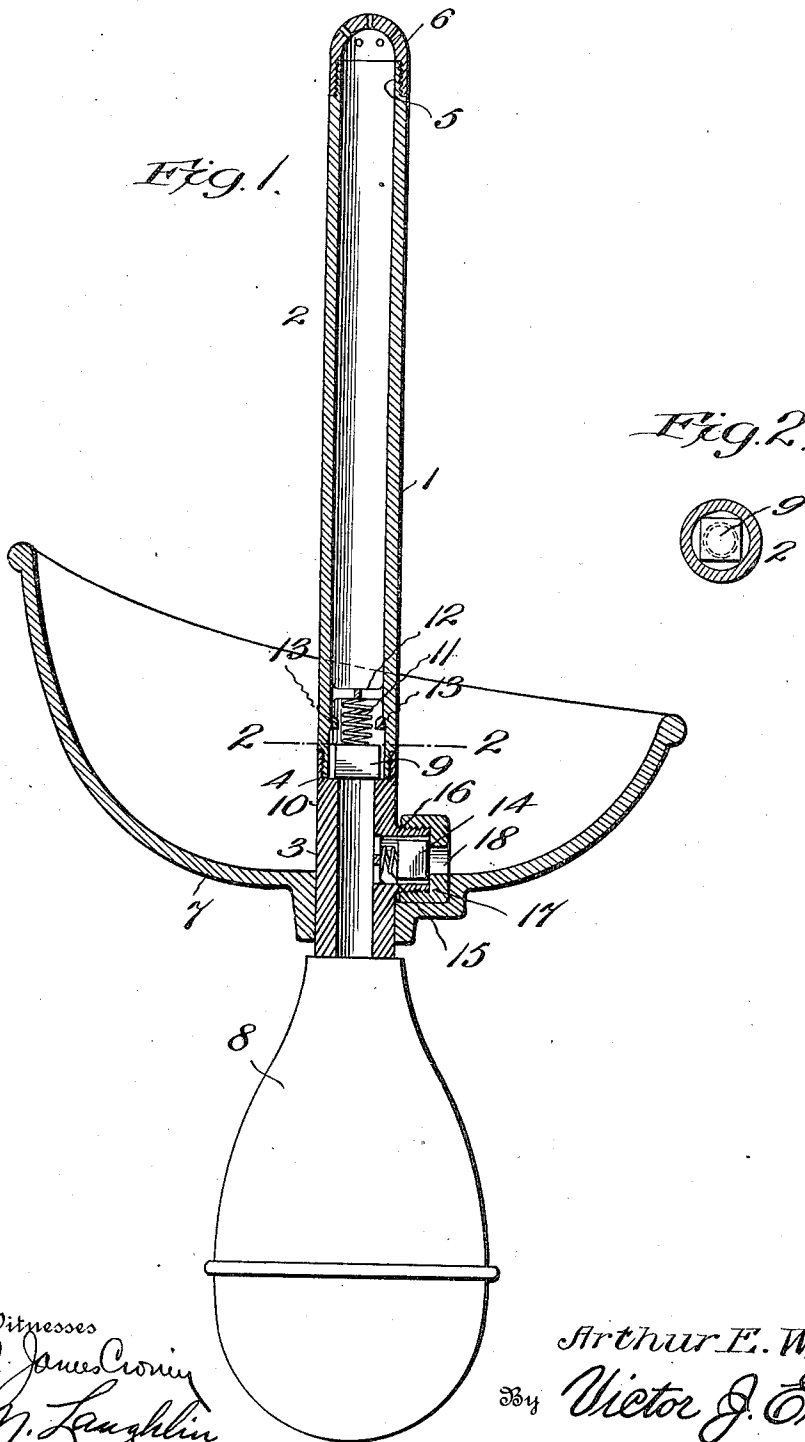


A. E. WILDE.
 SYRINGE.
 APPLICATION FILED JAN. 8, 1913.

1,092,684.

Patented Apr. 7, 1914.



Witnesses
C. James Cronin
M. Laughlin

Inventor
Arthur E. Wilde
 By *Victor J. Evans*
 Attorney

UNITED STATES PATENT OFFICE.

ARTHUR E. WILDE, OF NEW YORK, N. Y.

SYRINGE.

1,092,684.

Specification of Letters Patent.

Patented Apr. 7, 1914.

Application filed January 8, 1913. Serial No. 740,848.

To all whom it may concern:

Be it known that I, ARTHUR E. WILDE, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented new and useful Improvements in Syringes, of which the following is a specification.

This invention relates to a vaginal douche or syringe, and has for its object to provide a simple, convenient and effective device, of this character that may readily be taken apart and cleaned, and one which may be repeatedly operated without its removal from the mouth of the vagina.

To these ends the invention consists of the novel details of construction and combination of parts more fully hereinafter described and particularly pointed out in the claims.

Referring to the accompanying drawings forming a part of this specification in which like numerals designate like parts in all the views:—Figure 1 is a longitudinal sectional view of my improved syringe, and Fig. 2 is a cross sectional view thereof taken on the line 2—2 of Fig. 1.

The douche or syringe comprises a nozzle 1 having its upper section 2 and its lower section 3 united by the screw threaded portion 4. The upper section has its upper end provided with a screw threaded portion 5, to which is removably secured the perforated tip 6. To the opposite end or lower section 3 of the nozzle, is held the drain cup 7 which is adapted to closely fit around the parts to which it is intended to be applied, whereby to receive the escaping liquid that has been forced into the vagina by means of the compressible bulb 8.

Located within the upper section of the nozzle and at its junction with the lower section, is a valve 9 normally held against its seat 10 by means of coil spring 11. A spider 12 formed on the inner wall of the upper section of the stem, normally retains the spring in its proper alined position and lugs 13 also formed on the inner wall of the upper section, limit the upward movement of the valve when the bulb is operated. The valve is adapted to prevent any back flow of the liquid into the reservoir or compressible bulb after the liquid has once been forced past the valve.

Located within the lower section of the stem and adjacent to the valve 9 is a second valve 14 normally held against its seat by

means of a coil spring 15. This second valve is housed in an extension 16 formed on one side of the lower stem section and is arranged at right angles to the valve 9. A removable cap 17 provided with an opening 18, normally holds the valve 14 in its proper seated position within the extension.

The second valve 14 is adapted to be opened by the vacuum created when the compression on the bulb 8 has been released. This opening of the valve allows the liquid that has accumulated within the cup, to run back into the bulb.

The entire instrument with the exception of the bulb and springs, is preferably made of hard rubber, the springs being preferably made of a light rust-proof metal.

In using my vaginal douche or syringe, the compression bulb 8 is first filled with liquid. When in place the bulb is compressed and the water escapes by the valve 9 and is discharged through the perforations in the upper end of the tip 6. After the completion of the first discharge the valve 9 is closed and when the bulb is relaxed the valve 14 is opened by the vacuum created thereby and whatever liquid that has drained into the cup, is allowed to return to the compression bulb. In this way the same liquid may be used for several applications and an operation may be performed with a small amount of liquid which would otherwise require a considerable amount.

It is obvious that those skilled in the art may vary the details of construction and arrangements of parts without departing from the spirit of my invention and therefore I do not wish to be limited to such features except as may be required by the claims.

What is claimed as new is:

1. In a syringe, a bulb, a nozzle leading from the bulb and provided with a lateral tubular extension, a cap threadedly mounted on the extension and having an opening communicating with the interior of the extension, a drain cup mounted on the nozzle and having its inner wall flush with the lower wall of the opening in the cap, and a valve arranged within the extension and controlling communication between the interior of the cup and the nozzle.

2. In a syringe, a bulb, a nozzle leading from the bulb and provided with a lateral tubular extension, a drain cup mounted on the nozzle and provided with an offset portion, a cap threadedly mounted on the tubu-

lar extension and having an opening there-
in communicating with the interior of the
extension and engaging with a vertical wall
of the offset portion of the drain cup, and a
5 valve located within the extension and con-
trolling communication between the drain
cup and the nozzle.

In testimony whereof I affix my signature
in presence of two witnesses.

ARTHUR E. WILDE.

Witnesses:

JOHN A. DONEGHY,
GEO. A. BYRNE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."