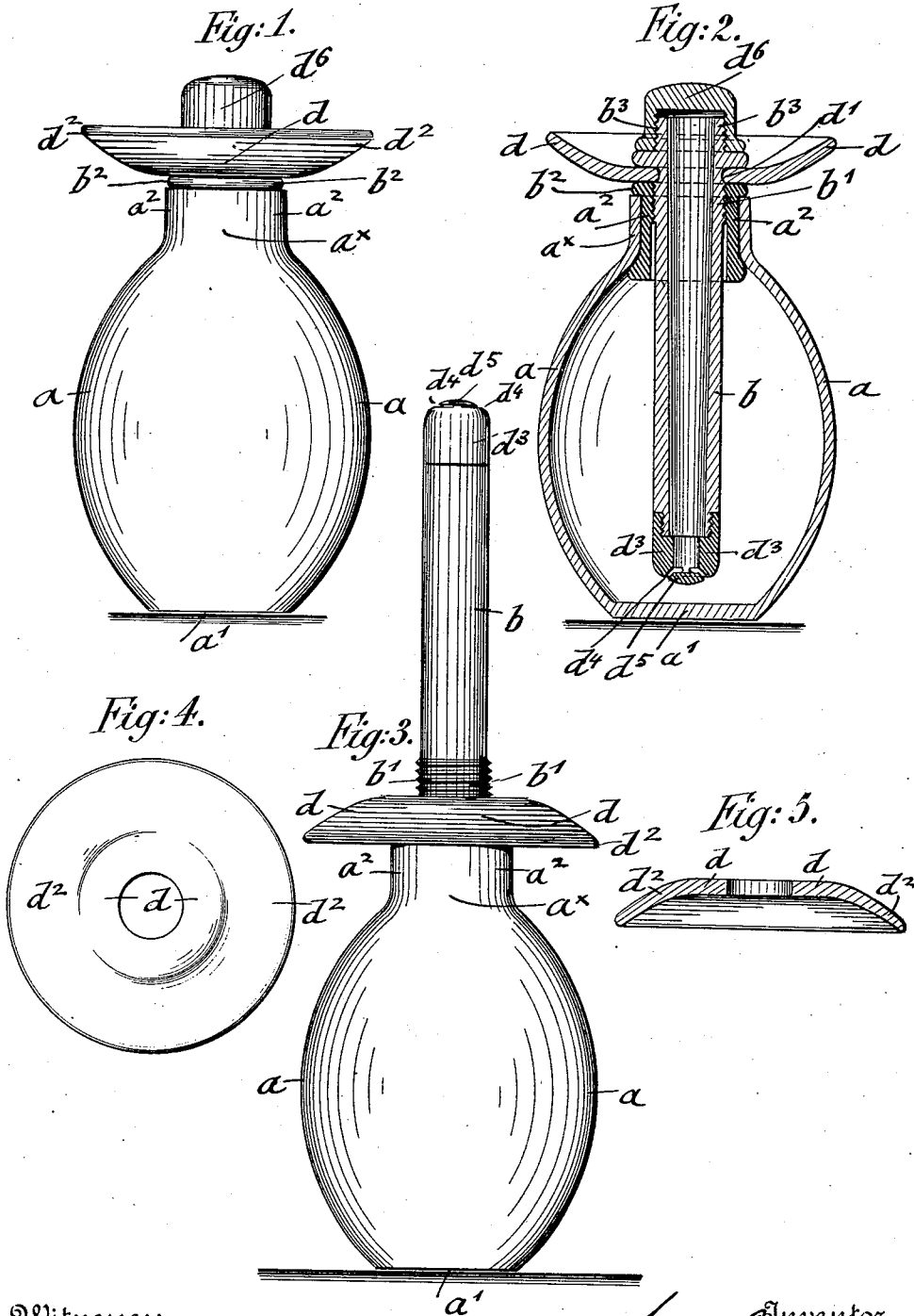


A. C. EGGERS.
VAGINAL SYRINGE.
APPLICATION FILED AUG. 14, 1912.

1,070,787.

Patented Aug. 19, 1913.



Witnesses:
John Murtagh
W. A. Dillon

Inventor
Anton C. Eggers
By *L. S. Attorney*
Joseph Koepel

UNITED STATES PATENT OFFICE.

ANTON C. EGGERS, OF NEW YORK, N. Y.

VAGINAL SYRINGE.

1,070,787.

Specification of Letters Patent.

Patented Aug. 19, 1913.

Application filed August 14, 1912. Serial No. 715,039.

To all whom it may concern:

Be it known that I, ANTON C. EGGERS, a citizen of the United States of America, residing in New York, in the borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Vaginal Syringes, of which the following is a specification.

This invention relates to certain improvements in vaginal syringes in which the spout is reversible so as to be capable of being stored in inverted position in the interior cavity of the bulb or screwed into the neck of the bulb when the syringe is desired for use; and for this purpose the invention consists of a vaginal syringe which comprises a soft-rubber bulb having an interiorly-threaded neck, a reversible spout provided with a shoulder and screw-threaded portions adjacent to said shoulder at each side thereof, and a soft-rubber washer or shield that is applied to the spout into a recess adjacent to the shoulder and provided with a flaring portion for shedding the liquid, the inner circumference of the washer or shield serving for tightly closing the neck of the bulb, and an interiorly-threaded cap adapted to be screwed over the butt-end of the spout when the same is inserted into the bulb.

In the accompanying drawing, Figure 1 represents a side-elevation of my improved vaginal syringe, showing the spout inserted into the bulb, Fig. 2 is a vertical central section of the same, Fig. 3 is a vertical central section, showing the spout in outwardly-extended position for use, and Figs. 4 and 5 are respectively a plan-view and a vertical central section of the washer or shield used in connection with the spout for shedding the liquid.

Similar letters of reference indicate corresponding parts throughout the different figures of the drawing.

Referring to the drawing, *a* represents the elastic bulb of my improved vaginal syringe, which bulb is made of soft rubber and provided with a flattened bottom *a*¹ so as to be placed in upright position, and with an interiorly screw-threaded neck *a*² of hard rubber or other suitable material inserted into the contracted neck *a*^{*} of the bulb. Into the screw-threaded neck *a*² is inserted the screw-threaded butt-end *b*¹ of the spout *b*. The length of the spout is somewhat less than the interior depth of the bulb, so that it can be inserted and stored away in inverted

reversed position in the bulb when the syringe is not required for use. For this purpose the butt-end of the spout is provided with a shoulder *b*² and adjacent to the shoulder, at the side opposite to the threaded portion *b*¹, with a second screw-thread *b*. The butt-end of the spout is provided, adjacent to the shoulder *b*², with an annular groove *d*¹ into which is inserted a soft-rubber washer or shield *d*, which serves for shedding the water when the syringe is in use and which serves also when the spout is screwed into inverted position into the bulb, for producing the tight closure of the bulb at the neck, as shown in Fig. 2, and prevent the liquid carried in the bulb from leaking out at the neck. The washer or shield *d* is preferably made of an inner annular portion which fits into the groove of the spout, and with a flaring portion *d*², as shown clearly in Figs. 1 and 5. The delivery-end of the spout *b* is provided with a detachable screw-cap or nipple *d*³ which screws on to the delivery-end of the spout, said nipple being provided in the well-known manner with an annular opening *d*⁴ and a disk *d*⁵ forming a tip by which the medicinal liquid that is to be injected into the vagina by the compression of the bulb is emitted. A cap *d*⁶ is screwed over the outermost threaded butt-end of the spout when the same is inserted and stored away in the bulb after use. This cap *d*⁶ has to be removed when the syringe is to be used, so as to permit the screwing in of the inner screw-thread *b*¹ of the butt-end of the spout into the threaded neck of the bulb, as shown in Fig. 2.

My improved syringe is of simple construction and can be readily converted from a liquid-containing closed bulb into a syringe by unscrewing the spout, reversing it so as to bring it in extended position in line with the center of the bulb and rescrawing its butt-end into the neck of the bulb, in which position of the spout the syringe is ready for use. After use the spout is unscrewed and inserted in reversed position into the bulb, being screwed tightly on the neck of the same, the intermediate washer or shield serving for forming a tight closure for the liquid contained in the bulb, while it forms a means for shedding the liquid clear of the bulb when the syringe is in use.

The syringe can be easily taken along when traveling and be used with the liquid placed therein whenever required.

I claim:

1. A vaginal syringe, comprising an elastic bulb having a screw-threaded neck, a spout screwed in the neck of the same and provided with an annular shoulder, an annular groove adjacent to said shoulder, and screw-threaded portions adjacent to said shoulder and groove, and a water-shedding shield of soft rubber fitted into said groove.
2. A vaginal syringe, comprising an elastic bulb provided with an interiorly-threaded neck and an exterior shoulder, a reversible spout provided at its butt-end with a shoulder, an annular groove adjacent to said shoulder, and a screw-threaded portion adjacent to the shoulder and groove respectively, and a water-shedding shield inserted into the groove, the threaded portions of the spout permitting the screwing of the spout in extended position into the neck

of the bulb or in inverted position into the bulb.

3. A vaginal syringe, comprising an elastic bulb having a screw-threaded neck, a spout screwed in the neck of the same and provided with an annular shoulder, an annular groove adjacent to said shoulder, and screw-threaded portions adjacent to said shoulder and groove, a water-shedding shield of soft rubber fitted into said groove, and an interiorly-threaded cap screwed over the outermost threaded butt-end of the spout.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

ANTON C. EGGERS.

Witnesses:

PAUL GOEPEL,
JOHN MURTAGH.

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