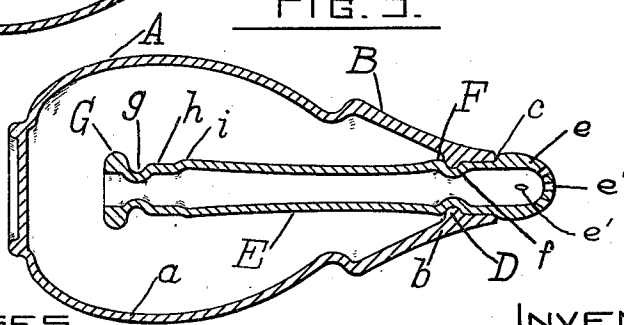
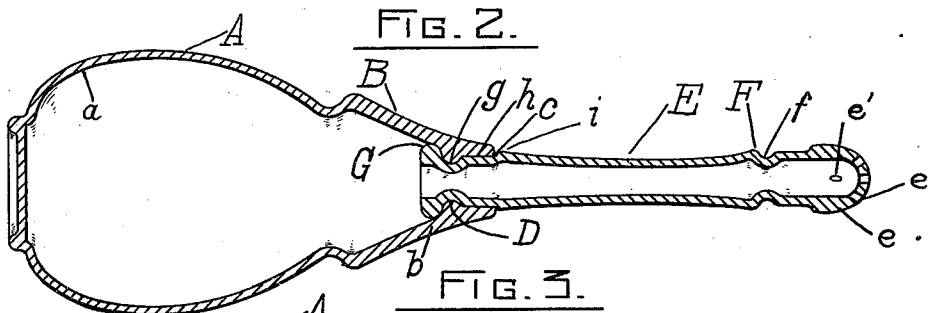
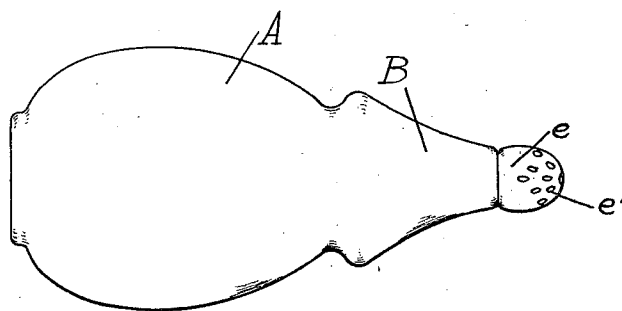
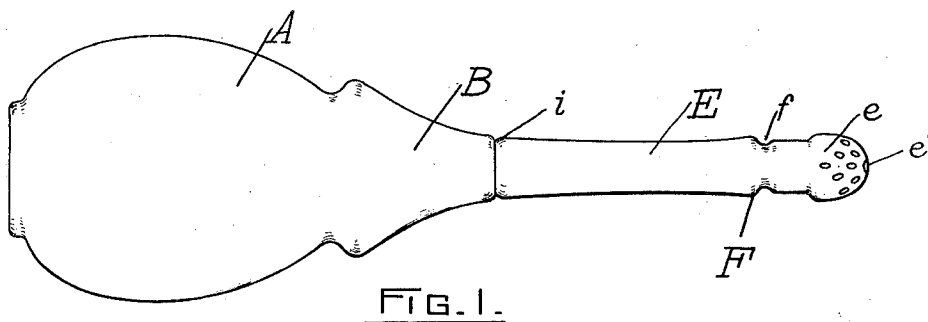


G. J. KELLEY.
VAGINAL SYRINGE.
APPLICATION FILED JULY 31, 1911.

1,029,689.

Patented June 18, 1912.



WITNESSES.

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VAGINAL SYRINGE.

1,029,689.

Specification of Letters Patent.

Patented June 18, 1912.

Application filed July 31, 1911. Serial No. 641,551.

To all whom it may concern:

Be it known that I, GEORGE J. KELLEY, a citizen of the United States, residing at Attleboro, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Vaginal Syringes, of which the following is a specification.

My invention relates to syringes of the type comprising an elongated nozzle and bulb such as in vaginal syringes.

The essential purpose of my invention is compactness, convenience for transportation, simplicity, cheapness, and freedom from leakage.

To the above ends essentially my invention consists in such novel parts and combinations of parts as fall within the scope of the appended claims.

In the accompanying drawings wherein like reference characters indicate like parts throughout the views:—Figures 1 and 2, are side elevations of my novel syringe in open and closed positions respectively, and Figs. 3 and 4, central longitudinal sections respectively of the same.

In detail my syringe comprises a compressible elastic bulb comprising a body A whose wall, *a*, is in the present instance of rubber; and a retracted conical end portion B terminating in a neck portion, *b*, whose wall is of greater thickness than the wall, *a*; and this neck portion surrounding the orifice, *c*, is provided near the mouth of the orifice with an internal annular rib, D, curved in cross section.

A discharge tube or nozzle E of vulcanized rubber or similar material has a closed hemispherical head, *e*, provided with perforations *e'*. Near its head the nozzle E has an external annular inclined shoulder F which merges into an external annular groove, *f*, at the side of the shoulder F nearer the head. The inner end of the nozzle is provided with an external annular shoulder G of greater exterior diameter than the orifice, *c*, and adjacent this shoulder is an annular groove, *g*, adapted to receive the rib D. The nozzle E is of slightly reduced diameter immediately forward of

the groove, *g*, as at *h* whereby there is formed a slight rounded external shoulder, *i*.

The end portion of the neck *b* is seated upon the portion *h* with its extremity abutting against the shoulder *i* when the nozzle E is in extended or operating position, as shown in Fig. 3. When, however, the syringe is not in use, the nozzle E is manually pushed inwardly into the bulb A through the mouth C until the rib, *g*, of the neck *b* registers in the forward groove *f* and the extremity of the neck abuts against the head or shoulder *e*. This movement being permitted by the elastic nature of the neck portion of the bulb and the rounded and inclined surfaces of the various shoulders and recesses. The exceptionally great diameter of the shoulder G prevents complete detachment of the nozzle when the latter is outwardly drawn.

When the parts are in closed position as shown in Figs. 2 and 4 it will be noted that the entire syringe is compact and available for transportation in a very small compass.

Not only does the telescoping character of the present device adapt it for facile manipulation and transportation which is of particular advantage to the woman user, but the simple two part construction makes its construction inexpensive.

What I claim is,—

1. In a syringe, the combination of a bulb comprising a body portion and a retracted elastic neck portion, an internal shoulder upon the neck portion, a nozzle located in the neck portion provided with perforations in its outer end, a shoulder upon the inner end of the nozzle behind the first mentioned shoulder, and means near the perforated end of the nozzle for engaging the first mentioned shoulder.

2. In a syringe, the combination with a bulb comprising a body portion and a neck portion, of an annular shoulder in the neck portion, a nozzle slidably mounted in the neck portion and provided with an annular groove adapted to receive said shoulder, a shoulder upon the inner end of the nozzle in the rear of the groove adapted to abut against the shoulder in the neck, a head

upon the outer end of the nozzle and an annular shoulder upon the nozzle at a little distance from the head, said nozzle being provided with an annular groove adjacent
5 the last mentioned shoulder adapted to receive the shoulder upon the neck portion.

In testimony whereof I have affixed my signature in presence of two witnesses.
GEORGE J. KELLEY.

Witnesses:

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