

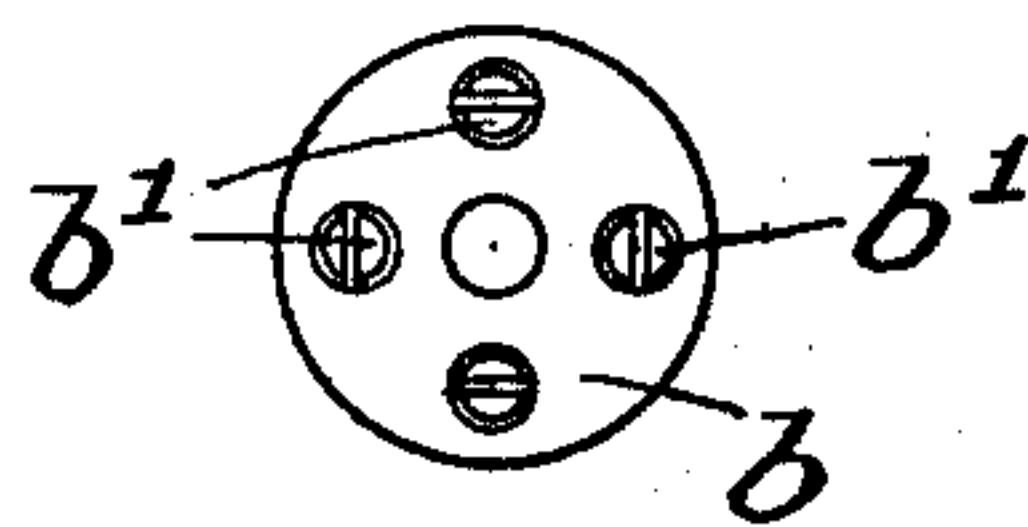
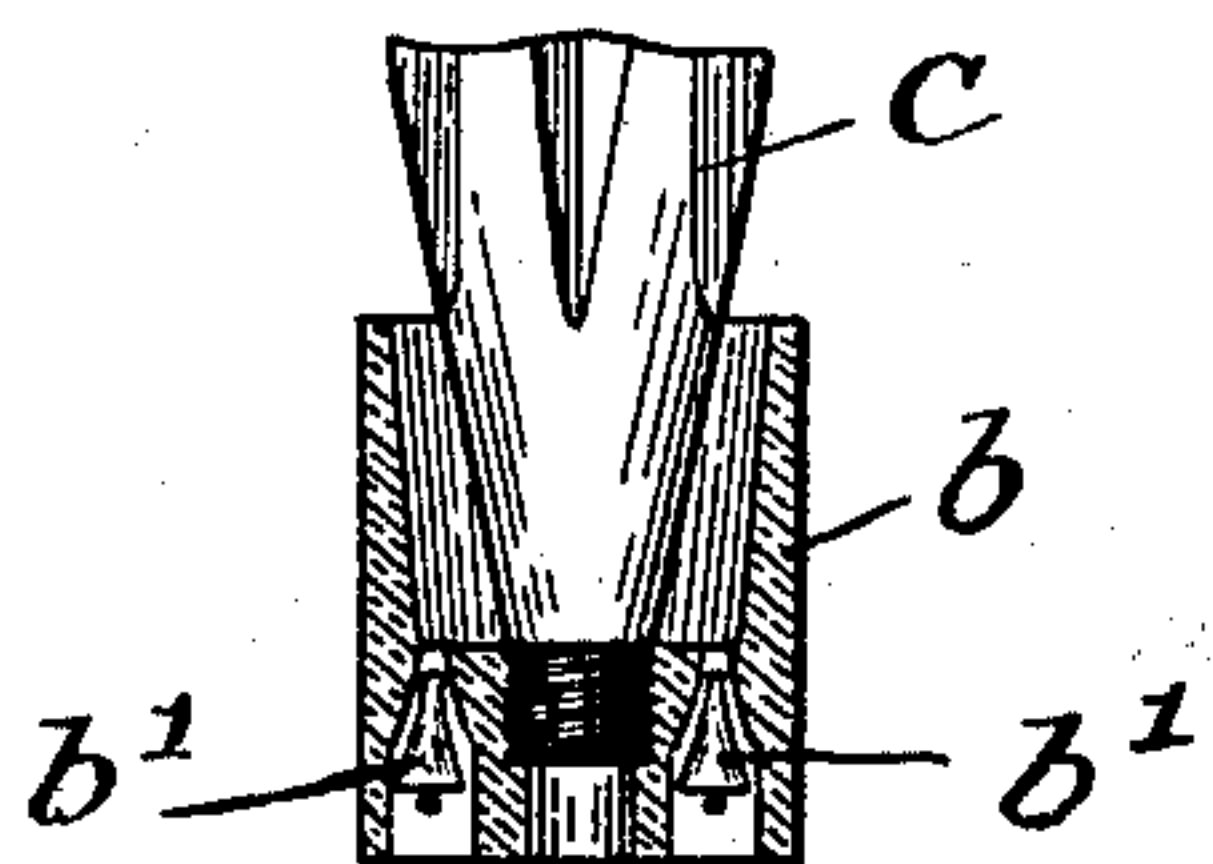
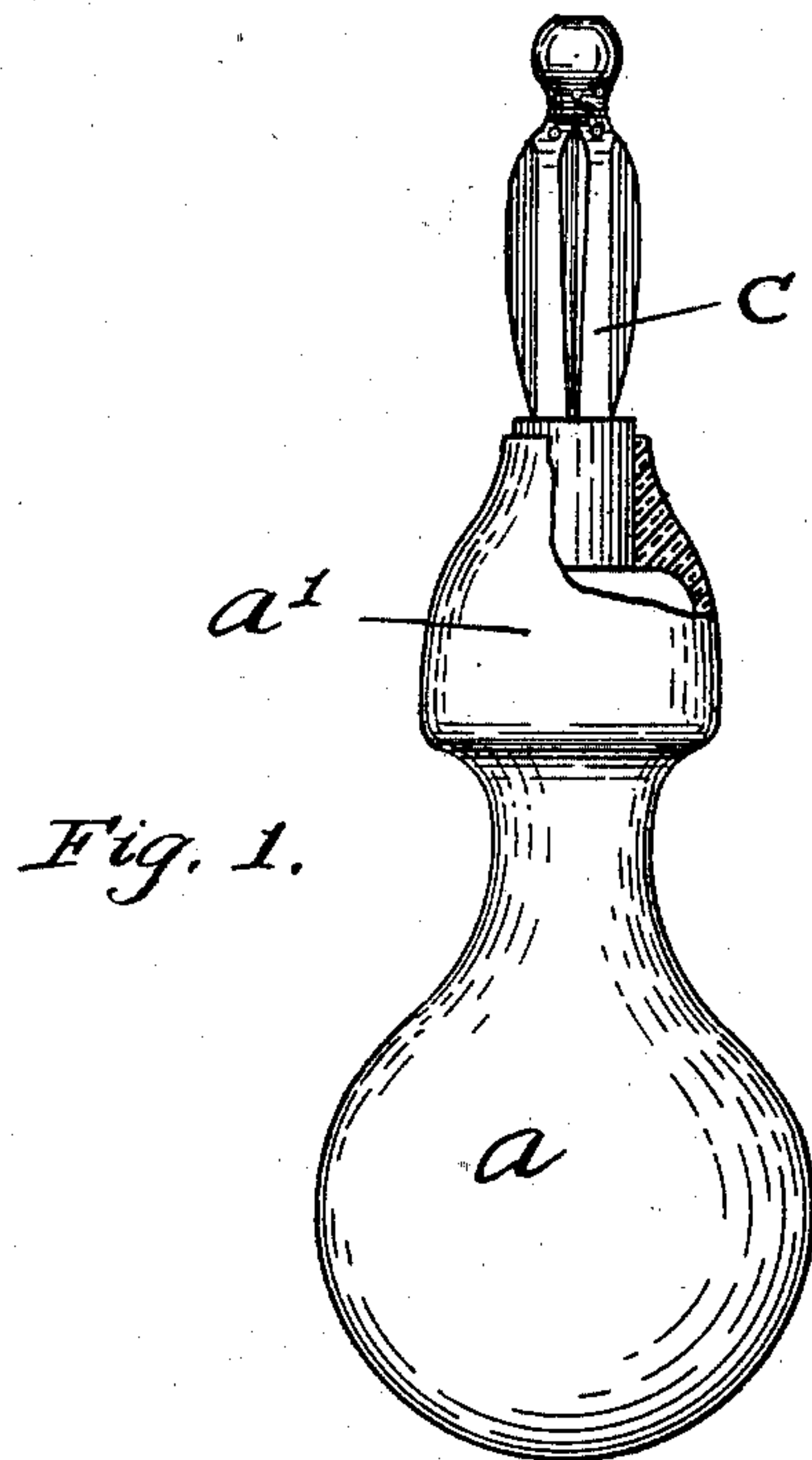
No. 698,511.

Patented Apr. 29, 1902.

F. H. JONES.
SYRINGE.

(Application filed Sept. 4, 1901.)

(No Model.)



Witnesses:
H. B. Davis.
John W. Dierow.

Inventor:
Frederick H. Jones
by B. J. Hayes
Att'y.

UNITED STATES PATENT OFFICE.

FREDERICK H. JONES, OF WAKEFIELD, MASSACHUSETTS.

SYRINGE.

SPECIFICATION forming part of Letters Patent No. 698,511, dated April 29, 1902.

Application filed September 4, 1901. Serial No. 74,264. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK H. JONES, of Wakefield, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Syringes, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to syringes of that class particularly adapted as a vaginal syringe, and has for its object to provide a syringe having a bulb formed or provided with a conical end portion adapted to project into and approximately fit the vagina, with a nozzle, preferably a spray-nozzle, and with means whereby the water or other liquid will be ejected from the nozzle only and prevented from escaping by the conical end portion and will thereafter be drawn back into the bulb through orifices independent of the nozzle by suction.

Figure 1 shows in side elevation and partial section a syringe embodying this invention. Fig. 2 is a vertical section of a portion of the syringe. Fig. 3 is a detail of the cup which is provided at the extremity of the conical end portion which collects the water or other liquid.

a represents a bulb which is provided with a conical end portion *a'*. These parts will be made of soft rubber, yet so far as my invention is concerned they may be constructed in any suitable manner and of any suitable shape and size. The conical end portion *a'* is made of a shape and size to project into and approximately fit the vagina. At the extremity of said conical end portion *a'* a cup *b* is attached in any suitable manner—as, for instance, it may be pushed or set into the orifice at the extremity of said end portion and held by friction or it may be otherwise connected to said end portion.

The cup *b* is provided with one or more inlet-valves *b'*, four being herein shown. These valves are or may be made as ordinary tack-valves, although any other suitable form or construction of check-valve may be employed in lieu thereof. A nozzle *c* of any suitable description, but preferably made as a spray-

nozzle, projects from said cup, it being attached to the bottom of said cup so as to project therefrom centrally. The nozzle *c* may be formed integral with the cup or made separate therefrom and attached thereto, as desired.

The cup and nozzle will be preferably made of hard rubber, and as many forms of nozzles are well known and adapted for this use I do not desire to limit my invention to the employment of any particular form or construction of nozzle.

By making the nozzle separate from the cup different nozzles may be employed, if desired.

In operation the water or other liquid will be ejected by compression of the bulb and will pass through the nozzle, the check-valves *b'* at the bottom of the cup being thereby automatically closed and afterward will be drawn back into the bulb as said bulb expands and opens the check-valves.

The cup will receive and hold the water or other liquid in order that it may be drawn into the bulb by suction, said cup thereby serving to collect the water or other liquid and by so doing will prevent the water or other liquid from passing over the outside of the conical end portion *a'*, and thus escaping.

I claim—

In a syringe, the combination with a bulb, of a cup seated in the mouth thereof having an outlet-opening in the bottom provided with a nozzle, an unobstructed passage between said nozzle and bulb, and one or more inlet-openings in the bottom of said cup also opening into said bulb, by which the liquid discharged from the nozzle is returned to said bulb, and a check-valve for each inlet-opening adapted to be automatically operated by the contraction and expansion of the bulb, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses:

FREDERICK H. JONES.

Witnesses:

B. J. NOYES,

JOHN W. DECROW.