(No Model.)

A. McTERNEN.

SYRINGE NOZZLE.

No. 589,017. Patented Aug. 31, 1897.

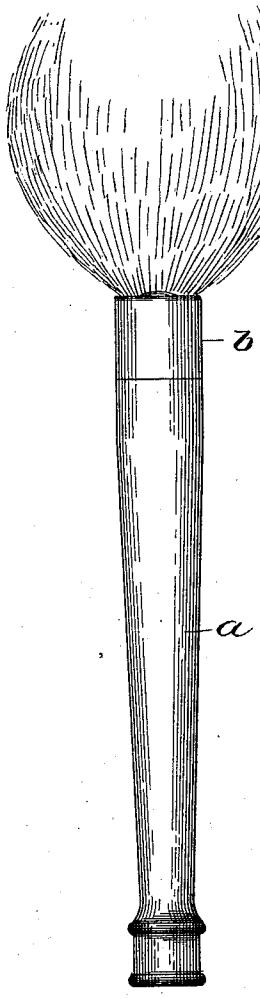


Fig. 1.

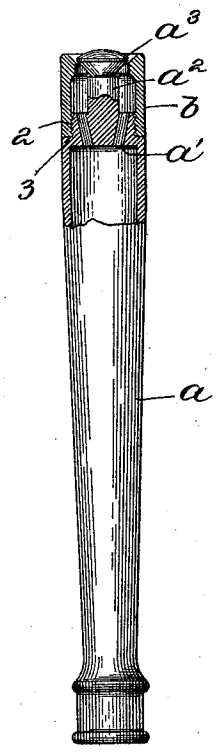


Fig. 2.

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UNITED STATES PATENT OFFICE.

ANDREW McTERNEN, OF ANDOVER, MASSACHUSETTS, ASSIGNOR TO THE TYER RUBBER COMPANY, OF SAME PLACE.

SYRINGE-NOZZLE.

SPECIFICATION forming part of Letters Patent No. 589,017, dated August 31, 1897.

Application filed January 11, 1897. Serial No. 618,693. (No model.)

To all whom it may concern:

Be it known that I, ANDREW McTERNEN, of Andover, county of Essex, State of Massachusetts, have invented an Improvement in Syringe-Nozzles, of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

This invention relates to improvements in nozzles for vaginal syringes of that kind having a globular delivery—that is to say, a nozzle wherein the parts are so constructed and arranged that the water will be delivered in a more or less globular or ball-shaped spray or film. By delivering the liquid in such a globular or ball-shaped spray or film it may be forced in advance of the end of the nozzle to the inner end of the vagina and about the mouth and neck of the womb without entering the uterine cavity.

In accordance with this invention a hard-rubber pipe is formed at its extremity with an externally-screw-threaded perforated end portion, from which projects centrally a stem surmounted by a flattened head, and a sleeve or end piece having a hole through it larger in diameter than the diameter of said head is adapted to be screwed onto the pipe, inclosing its perforated end, its stem, and head, and the parts are so disposed with relation to each other that a more or less globular delivery is insured.

Figure 1 shows in side elevation a syringe-nozzle embodying this invention; Fig. 2, a similar elevation and partial vertical section of said nozzle.

The pipe a, of hard rubber or other material and of suitable size and length, is formed at its outer extremity with a projecting end portion a', having an exterior screw-thread 2 and several perforations 3 through it, and projecting centrally from said end portion a' is a stem a^2, surmounted by a flattened head a^3. The projecting end portion a' is made less in diameter than the external diameter of the outer extremity of the pipe, so that a flat shoulder or seat is formed or provided at said end around the base of the said projecting end portion. The stem a^2 is made quite short and small in diameter, and the head is formed with a convex outer face and a more or less frusto-conical or beveled under face, as shown particularly in Fig. 2. A sleeve or end piece b, of any suitable size and formed with an internal screw-thread and also with a hole through it at least a little larger in diameter than the diameter of the head a^3, is adapted to be screwed onto the projecting end portion of the end of the pipe, it at such time inclosing said end portion, its stem a^2, projecting therefrom, and the head a^3.

The sleeve or end piece b is preferably more or less chambered interiorly, as shown in Fig. 2, at that portion thereof which surrounds the stem a^2, to thus provide at such point a larger chamber, and also the outer end of said sleeve or end piece is dished or countersunk slightly, so that its most contracted part shall terminate just below the widest diameter of the head a^3 when said cap is screwed on so far as to abut against the shoulder or seat at the end of the pipe a, formed or provided around the base of said projecting end portion.

The parts when assembled as shown in Fig. 2 are so disposed that a globular delivery is insured.

The particular construction of nozzle herein shown and which forms the subject-matter of this invention is important on account of its simplicity and because it can be so readily taken apart and cleansed and thereafter easily assembled and adjusted.

I claim—

A syringe-nozzle, consisting of a pipe a, having at its extremity a perforated end portion a' externally screw-threaded and provided with a central projecting stem a^2 surmounted by a head a^3 and having a seat at the base of said end portion, and an internally-screw-threaded sleeve or end piece b having a hole through it larger in diameter than the diameter of the head a^3 and adapted to be screwed onto the pipe a abutting against said seat, and inclosing the perforated end portion, the stem and head, the parts being so disposed with relation to each other that the water is delivered in a globular or ball-shaped spray or film, substantially as described.

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

ANDREW McTERNEN.

Witnesses:
MARY F. MASON,
A. E. TOUGH.