

No. 650,080.

Patented May 22, 1900.

J. S. MARMADUKE.  
SYRINGE.

(Application filed Mar. 10, 1900.)

(No Model.)

Fig. 2.

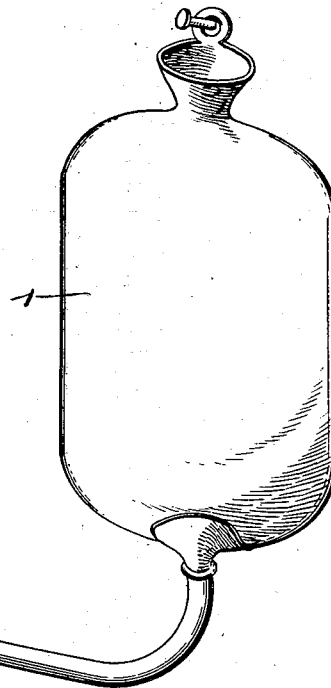
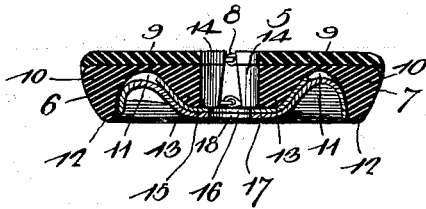


Fig. 1.

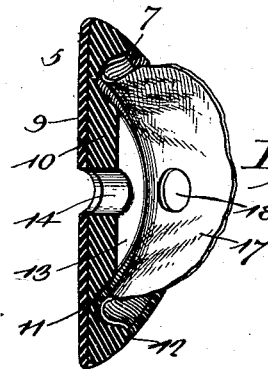
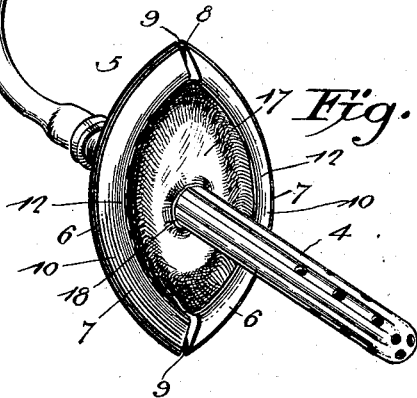


Fig. 4.

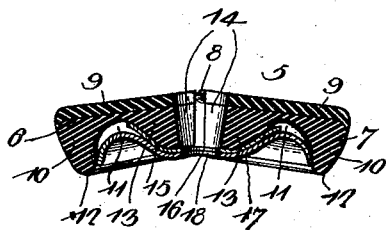


Fig. 3.

Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN S. MARMADUKE, OF MARSHALL, MISSOURI.

## SYRINGE.

SPECIFICATION forming part of Letters Patent No. 650,080, dated May 22, 1900.

Application filed March 10, 1900. Serial No. 8,194. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN S. MARMADUKE, a citizen of the United States, residing at Marshall, in the county of Saline and State of Missouri, have invented a new and useful Syringe, of which the following is a specification.

This invention relates to a vaginal syringe; and the object of the same is to produce a device of this character having a simple outward application and introduction and a positive operation by effecting a thorough exterior occlusion and a painless non-irritating contraction of the labia with obvious advantageous results, and prevent soiling garments or adjacent articles at the time the injection of the fluid is progressing.

The invention consists in the construction and arrangement of the several parts, more fully hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of an injection apparatus embodying the improved syringe. Fig. 2 is a transverse vertical section of the occluding-head of the syringe. Fig. 3 is a similar view of the head shown in a different position. Fig. 4 is a sectional perspective view of a part of the head.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates a water-bag or other analogous device having a feed-tube 2 extending away any suitable distance from the lower extremity thereof, said feed-tube being preferably supplied, as usual, with a clamp 3 to control the flow therethrough. The tube 2 also has an injector or nozzle-tip 4, removably applied thereto by a screw connection and capable of quick connection for the purpose of substitution of other analogous devices having different characteristics and irrigating properties and as may be required under varying conditions and treatments. The essential feature of the invention, however, resides in the occluding-head 5, which is of substantially-elliptical form and comprises two semi-elliptical sections 6 and 7, connected at opposite extremities by simple hinges 8, preferably interlocking eyes, which are loose enough to permit movement or adjustment of the sections in applying the improved device. Each section has a rigid back 9, preferably formed of vulcanized rubber,

and on the front of each back a soft-rubber cushion 10 is secured and has a longitudinal groove or concave channel 11 following the outer edge contour of the said cushion and providing an edge rim 12, standing outwardly from the plane of the section and producing means at opposite sides of the complete head to fit over and softly embrace the labia adjacent the vaginal orifice or mouth. Each section also has an inner protuberance or convex swell 13, into which the groove or channel merges, and the contiguous protuberances or swells of the complete head serve as means for closing the vaginal orifice. Through the central portion of each section a semicircular opening 14 is formed, said openings conjointly forming a close passage for the injector or nozzle-tip 4, and secured at one edge to the section 6 is an elastic or thin rubber flap 15, which loosely extends over the protuberances or swells of both sections and is provided with an opening 16 to align with the combined semicircular openings 14. Another thin rubber flap 17 has its one edge secured to the other section 7 on the inner portion of the rim 12 thereof and loosely extends over the flap 15 and a part of the section 6 beyond the terminal of the latter. The flap 17 is also formed with a central opening 18 to align with those in the flap 15 and the sections, and both flaps are employed to provide a water-tight seal and prevent leakage around the injector or nozzle tip 4 and through the joint between the sections, the one flap being slightly thicker than the other to form an effective tight binding around the nozzle-tip and also to soften the bearing-face of the head next to the organ treated.

The injector or nozzle-tip 4 has a plurality of openings therein located at different points and when disposed in the head care will be taken to obtain a sufficient projection to suit the organ to be treated and to properly locate the occluding-head on the same at such a distance that it will bear against the orifice or mouth of the vagina. The labia are then drawn together by contracting the sections 6 and 7 of the head, as shown by Fig. 3, and the liquid, either medicated or clear water, is permitted to flow through the injector or nozzle-tip and thoroughly irrigate or treat the organ without liability of leakage. During

such operation the head-sections are firmly held in place and the contraction of the labia maintained, and after such treatment the head and injector are withdrawn and the liquid in the vagina will flow into a receptacle disposed in proper position for this purpose.

To accommodate different applications, changes in the form, proportions, and minor details may be resorted to without departing from the principle or sacrificing any of the salient features of the invention.

Having thus described the invention, what is claimed is—

1. In a device of the character set forth, the combination with a source of supply and a feeding-tube, of an injector or nozzle-tip removably applied to the said tube, and an occluding-head fitted over the injector or nozzle-tip and comprising two hinged sections.

2. In a device of the character set forth, the combination with an injector and means for feeding the same, of an occluding-head comprising two hinged sections having yielding bearing-faces.

3. In a device of the character set forth, the combination with an injector or nozzle-tip and feeding means therefor, of an occluding-head comprising hinged sections with cushioned bearing-faces having edge rims outstanding therefrom, concaved grooves following said rims and central protuberances or swells, the said head having an opening

therethrough for the reception of the injector or nozzle-tip.

4. In a device of the character set forth, the combination with an injector or nozzle-tip and means for feeding the same, of an occluding-head having an opening therethrough for the reception of said injector or nozzle-tip, said head comprising hinged sections each of which has an elastic flap attached thereto and extending over the other to provide a liquid-tight joint, the said flaps also having openings therein for the passage of the injector or nozzle-tip.

5. An occluding-head for a syringe comprising semi-elliptical sections movably attached to each other and having an opening therethrough at the center, each section being formed with a stiff back and a cushioned bearing-face with an outstanding rim, a concave groove or channel and an inner protuberance, and yielding flaps connected at one end to each of the sections and extending across the bearing-face of the latter and also having openings therein to aline with the central opening in the head.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN S. MARMADUKE.

Witnesses:

THOMAS F. OTTEY,  
E. E. BARNUM.