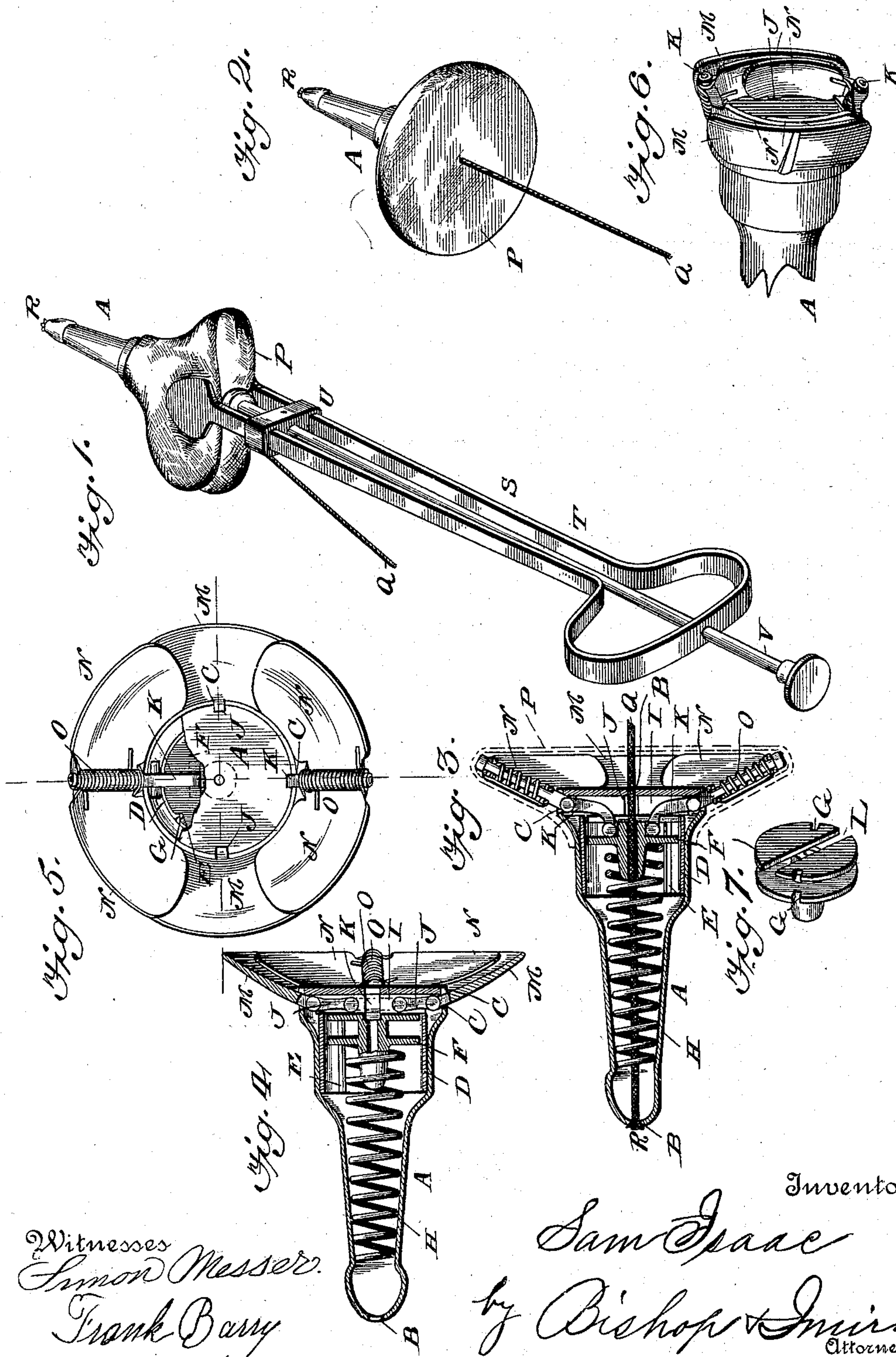


(No Model.)

S. ISAAC.  
SYRINGE.

No. 561,318.

Patented June 2, 1896.



Witnesses  
Simon Messer.  
Frank Barry

Inventor  
Sam Isaac  
by Bishop & Irvine  
Attorneys



# UNITED STATES PATENT OFFICE.

SAM ISAAC, OF MILWAUKEE, WISCONSIN.

## SYRINGE.

SPECIFICATION forming part of Letters Patent No. 561,318, dated June 2, 1896.

Application filed October 9, 1895. Serial No. 565,170. (No model.)

*To all whom it may concern:*

Be it known that I, SAM ISAAC, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Syringes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My present invention is a syringe or device intended more especially for cleansing the vagina and neutralizing the obnoxious odors which are incident to various female complaints.

The invention consists in certain novel features which will be hereinafter first fully described, and then pointed out in the claims.

In the annexed drawings, which fully illustrate my invention, Figure 1 is a perspective view of the device, showing the same ready for insertion. Fig. 2 is a similar view showing the device ready to be removed. Figs. 3 and 4 are longitudinal sections taken at right angles to each other. Fig. 5 is a plan view showing the cup expanded. Fig. 6 is a details perspective view showing the cup collapsed, and Fig. 7 is a detail view of the sliding disk.

Referring to the drawings more particularly, A designates a tapered tubular casing having small central perforations B in its ends and the openings C around the edge of its larger end. Within the larger end of the casing I secure, by soldering or otherwise, a ring D, provided with internal longitudinal ribs E, and within this ring I fit a double disk F, which is provided with notches G in its edge, adapted to engage the ribs E and thereby prevent rotation of the disk as it slides within the ring in the operation of the device. The disk is normally pressed toward the base or larger end of the casing by a spring H, having one end bearing against said disk and its other end held within the contracted portion of the casing. Fulcrumed between the side wall of the casing and the rib I, on the inner face of the base thereof, are two pairs of arms J K, the arms J having their ends bearing

upon the disk F and the arms K having their ends passed through a slot L therein and provided with T-heads playing between the members of the disk. The outer ends of the arms J are formed integral with the plates or wings M, while the outer ends of the arms K form fulcrums for smaller wings N, which are held against the inner faces of the wings M and normally expanded by the springs O, coiled around the said arms K, and having their ends bearing on the said wings, as shown most clearly in Fig. 5. These several wings or plates form a collapsible cup, as will be readily understood upon reference to the drawings, and over and around the said cup I fit an elastic sack P, of soft rubber or similar suitable material, and through the said sack and the perforations B, I run a thread Q, which is provided with a knot or other stop R beyond the end of the casing to prevent its withdrawal therethrough.

The device is inserted by means of a clamp S, consisting of a pair of spring-arms T, a ring or collar U, adapted to clamp said arms on the collapsible cup, and a handle or rod V for manipulating the clamp, all of which will be readily understood on reference to Fig. 1.

In using my device I place in the sack a small supply of perfumed or antiseptic oil or similar substance and insert the device by means of the spring-clamp, as will be readily understood from Fig. 1. After the device has been properly inserted the clamp is withdrawn and the springs within the casing and the collapsible cup expand the same, so that the sack bears against the walls of the opening, the sudden expansion serving to splash the liquid out of the sack. The device being now withdrawn by the thread will apply the perfume or oil to the walls and will thoroughly wash and cleanse the same. The liquid is placed in the sack by slightly expanding the mouth of the same and then dropping the liquid between the casing and the edge of the sack. Of course, when the sack and cup are compressed by the spring-clamp some of the liquid will ooze or leak out as the device is inserted and the pressure of the walls on the sack will expel a portion as the device is withdrawn. It will not be necessary to flood the cavity, as a few drops will be suffi-



cient to overcome the objectionable odors, and the device permits the liquid to be applied well to the innermost part and removes impurities as it is withdrawn in its expanded  
5 condition.

The device is extremely simple in its construction and efficient in its use.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is--  
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1. A syringe consisting of a casing, a folding cup on the rear end of the casing, formed of separate metallic plates, and an elastic sack fitted over the said cup.

15 2. The combination of the casing, a sliding disk therein, a series of overlapping wings or plates fulcrumed on the casing and connected

with said disk, and a spring within the casing bearing against said disk.

3. The combination of the casing, a sliding disk therein, two pairs of arms fulcrumed on the casing and bearing against said disk, wings M formed integral with the one pair of said arms, spring-controlled wings N mounted on the other pair of said arms and resting  
20 within the wings M, and a spring within the casing bearing against the disk.  
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In testimony whereof I affix my signature in presence of two witnesses.

SAM ISAAC.

Witnesses:

R. W. BISHOP,  
DAVID E. MOORE.

It is hereby certified that in Letters Patent No. 561,318, granted June 2, 1896, upon the application of Sam Isaac, of Milwaukee, Wisconsin, for an improvement in "Syringes," errors appear in the printed specification requiring correction as follows, viz: In line 29, page 1, the word "howing" should read *showing*, and same line, same page, the word "details" should read *detail*; and that the said Letters Patent should be read with these corrections therein that the same may conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 16th day of June, A. D. 1896.

[SEAL.]

S. T. FISHER,  
*Acting Commissioner of Patents.*

JNO. M. REYNOLDS,  
*Assistant Secretary of the Interior.*