

(No Model.)

J. B. HUNT.

SYRINGE.

No. 297,263.

Patented Apr. 22, 1884.

Fig 1-closed.

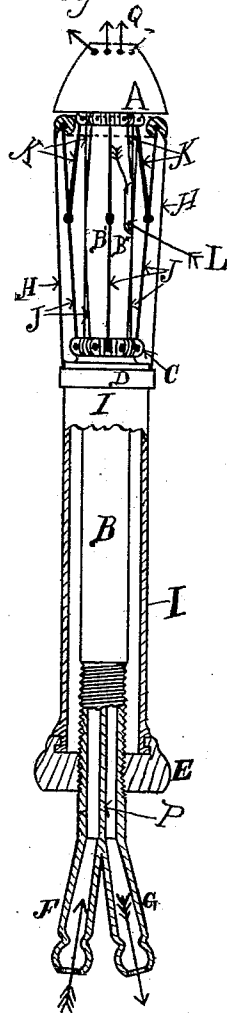


Fig 2-open

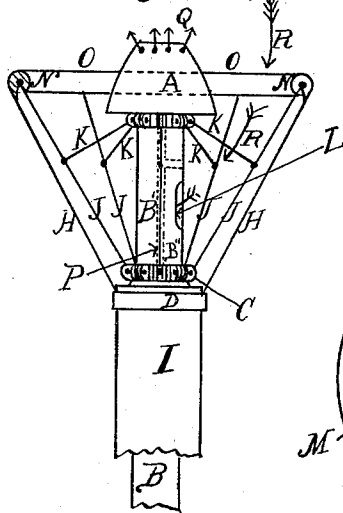
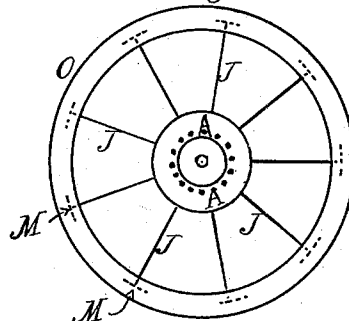


Fig 3-top



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN BINGHAM HUNT, OF DELAWARE, OHIO.

SYRINGE.

SPECIFICATION forming part of Letters Patent No. 297,263, dated April 22, 1884.

Application filed April 2, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN BINGHAM HUNT, of Delaware, in the county of Delaware and State of Ohio, have invented certain new and useful Improvements in Utero-Vaginal Syringes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in vaginal syringes; and the objects of my improvements are, first, to expand the walls of the vagina without irritating effect; second, to produce an adjustable dam or reservoir within the vagina to retain any liquid in the cavity when desired; third, to provide an outlet for return flow controllable by the operator; and, fourth, to attain these ends with the maximum simplicity of construction. I attain these objects by the methods hereinafter described and the means illustrated in the accompanying drawings, in which—

Figure 1 represents an elevation of the closed syringe, partly in section, showing the relative location of the parts. Fig. 2 represents a detail view of the upper part of the syringe when open, and Fig. 3 represents a plan view of the top of the syringe.

Similar letters refer to corresponding parts throughout the several views.

A represents the nozzle, suitably perforated to permit of injecting the desired liquid.

B is the tube connecting the nozzle A with the pipe F, which leads, with or without the aid of rubber hose, to the reservoir of the liquid. It also connects the dam in the vagina with pipe G. The tube B has a partition, P, which makes two channels, B' B'', one conveying liquid into and the other out of the vagina.

C represents a collar surrounding the tube B, to which are attached arms J J, for expanding the diaphragm H. The tube B reciprocates in the collar C, which is rigidly attached to the tube I.

D represents the band encircling the tube I, constituting the base of the rubber dia-

phragm. It is connected with the upper portion by the walls.

E is a hand-nut, having a swivel-bearing on the tube I. When it is rotated to the right, it decreases its distance from the nozzle A, because the tube B screws out of the cylinder I. When the nut is rotated in the opposite direction, the reverse takes place, and it will be seen that by this means the diaphragm H is opened and closed.

K K represent braces to support the adjustable arms J J in position.

L is an aperture in the channel B' of the tube B, by which the return flow from the dam in the vagina is conducted out of the syringe through tube G.

M M represent shoulders at the upper termini of the adjustable arms J J, which form bearings for the folds N N of the diaphragm H.

O represents the outer rim of the upper base of the diaphragm.

Q represents the direction of the stream injected into, and R that of the stream forced out of, the vagina.

The tubes B and I are concentric. The tube B has exterior threads, which engage with corresponding interior threads in the hand-nut E.

The channel B' is utilized for the injection of the liquid into the vagina through the nozzle A, which it receives from the reservoir by means of pipe F and flexible hose, if desired.

The channel B'' is used to convey the return flow of the liquid coming from the dam in the vagina, through the opening L therein, out of the syringe by means of pipe G.

The tube I serves as a stationary handle during the entire operation. It has an annular depression in its base, in which a corresponding projection of the hand-nut E fits, thereby forming a swivel-bearing. The reciprocation of the tube B is effected by the rotation in one direction or the other of the said hand-nut.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In a vaginal syringe, two concentric tubes, B I, in combination with hand-nut E, collar C, adjustable arms J J, shoulders M M,

braces K K, and diaphragm H, whereby an adjustable dam or reservoir is produced within the vagina, substantially as specified.

2. In a vaginal syringe, the combination,
5 with two concentric tubes, B I, nozzle A, and pipes F G, of hand-nut E, collar C, adjustable arms J J, shoulders M M, braces K K, and diaphragm H, substantially as specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two 10 witnesses.

JOHN BINGHAM HUNT.

Witnesses:

RICHARD PARSONS,
HENRY G. SHELDON.