

M. MOLESWORTH.
SYRINGE.

No. 170,182.

Patented Nov. 23, 1875

Fig. 1.

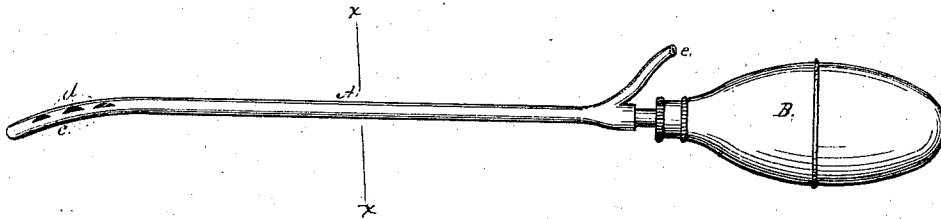


Fig 2.



Witnesses; ~

Clarence C. Poole
James S. Smith

Inventor; ~

W. Molesworth M.D.

UNITED STATES PATENT OFFICE.

WILLIAM MOLESWORTH, OF NEW YORK, N. Y.

IMPROVEMENT IN SYRINGES.

Specification forming part of Letters Patent No. 170,182, dated November 23, 1875; application filed July 12, 1873.

CASE C.

To all whom it may concern :

Be it known that I, WILLIAM MOLESWORTH, M. D., in the county and city of New York, and State of New York, have invented certain new and useful Improvements in the Article of Intra Uterine Injecting and Vacuum Syringe; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 represents the improved article as it is made complete for use, consisting, as it does, of a double cannula, capable of any required curvature, and a bulb and screw attachment. Fig. 2 shows a cross-section of the double cannula at *x x*.

My invention relates to surgery; and it consists of a tube of metal or other material susceptible of any curvature desired, with a septum extending its whole length, with an elastic injecting and vacuum bulb attached by a screw-coupling.

The following is a general description of my invention, referring to the figures in the drawing and the letters marked thereon.

The elastic bulb B is of the kind that is in general use for suction and vacuum syringes, and is attached to the cannula A by the ordinary screw-coupling of the common pump-syringe. The double cannula A is a polished tube, susceptible of any required curvature, of about ten inches in length and one-eighth inch in diameter, discharging at the side through the fine holes, as seen at *c*, together with the escape-orifices *d*, down the cannula to the exit *e*.

The operation and advantages of my improvements are as follows: That as it discharges directly forward toward the symphy-

sis pubis, there is no danger of forcing the jet into the Fallopian tubes; and as the wash can escape as fast as thrown in, or can be withdrawn by suction at the will of the operator, the patient is wholly freed from that excruciating pain so frequently attending the use of other syringes. As the tube is a double cannula, the operator, by closing the mouth of the escape-tube *e*, can retain the fluid within the cavity as long as the pressure on the bulb B is continued, when, by removing the pressure from the bulb, a suction is caused which will draw all the fluid back into the bulb; or the escape-pipe may be opened, and allow it to escape through that, or that and the suction may both be used; and further advantages are that, as it is simply an elastic bulb and double tube, there are no valves to be lost or pistons to become too tight or too loose, and can be used as well, and with equal facility, for injecting the bladder and urethra, both in the male and female, as for the uterine cavity.

What I claim as my invention is—

The double cannula A, made of flexible and tenacious material so that it may be bent to any required curvature, the same being provided with the longitudinal diaphragm and discharging-holes *c* on one side, and the escape-orifices *d* on the other side, opposite, and the exit *e* near the rubber bulb B, as arranged to operate substantially in the manner as herein shown and described, for the purposes specified.

W. MOLESWORTH, M. D.

Witnesses :

JNO. D. PATTEN,
HARRY C. BIRCH.