

(No Model.)

J. W. WARD & G. P. SYLVESTER.

SYRINGE.

No. 334,316.

Patented Jan. 12, 1886.

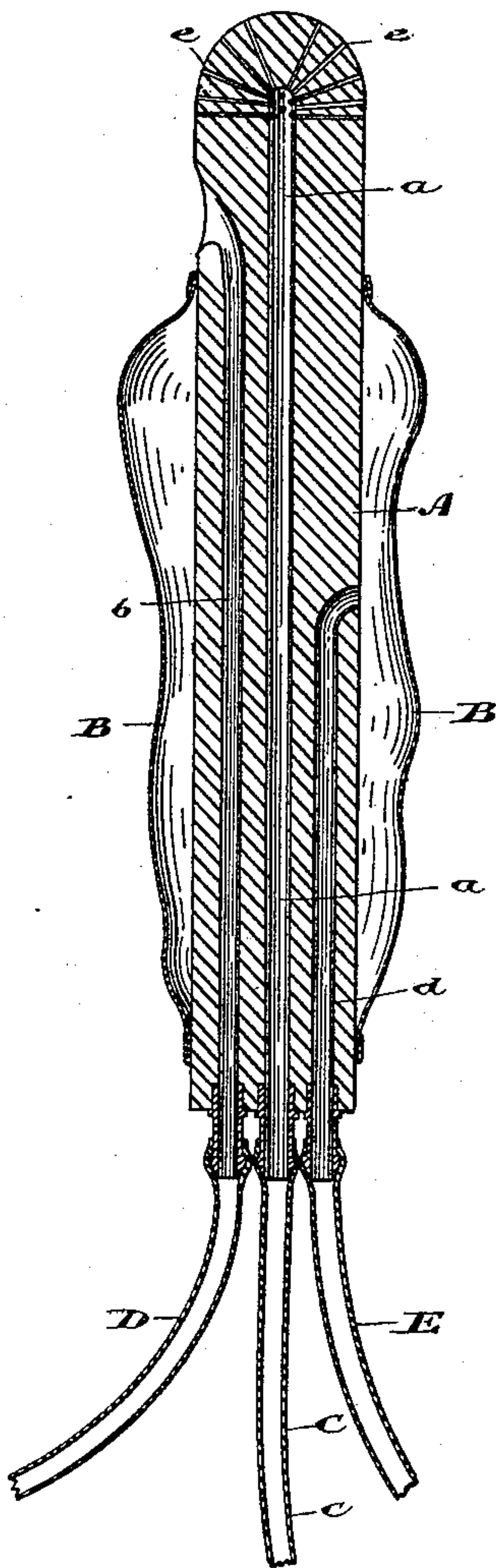


Fig. 1.

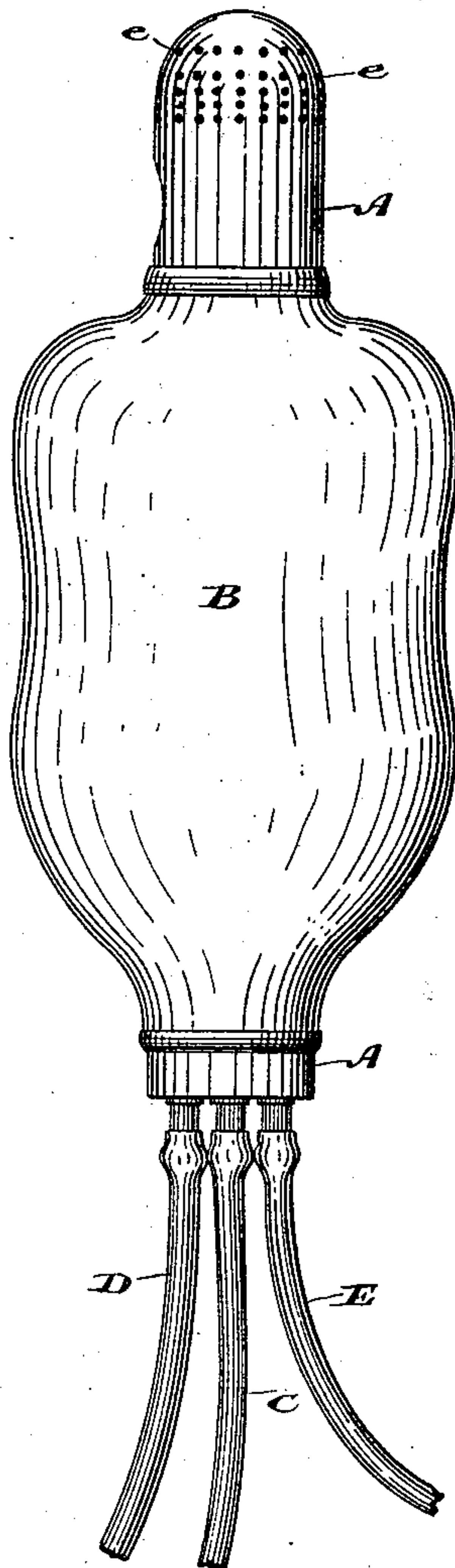


Fig. 2.

Witnesses.

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UNITED STATES PATENT OFFICE.

JAMES W. WARD AND GEORGE P. SYLVESTER, OF GALT, ONTARIO, CANADA.

SYRINGE.

SPECIFICATION forming part of Letters Patent No. 334,316, dated January 12, 1886.

Application filed September 7, 1885. Serial No. 176,330. (No model.) Patented in Canada September 17, 1885, No. 22,481.

To all whom it may concern:

Be it known that we, JAMES WATSON WARD, painter, and GEORGE PERRY SYLVESTER, physician, both of the town of Galt, in the county of Waterloo, in the Province of Ontario, Canada, have jointly invented an Improved Medical Instrument to be Used in Womb and Vaginal Complaints, of which the following is a specification.

The object of the invention is to design an instrument by which medicated liquids may be injected into the vagina, and the liquid so injected drawn therefrom without any escaping onto the clothes of the patient or the bed on which she may at the time be lying; and it consists, essentially, of a flexible bag arranged to encircle injecting and escaping tubes, the said flexible bag being provided with a tube by which it may be readily inflated for the purpose of forming what may be termed a "cork" for the vagina outside of the point where the fluid is injected, the escaping-tubes opening near the same point, so that the liquid after it has performed its duty will escape through the tube into a basin or other receptacle provided for the purpose, the inflated bag forming a complete stopper to prevent the escape of liquid, as stated.

Figure 1 represents a sectional elevation of the instrument uninflated. Fig. 2 is a view of the instrument inflated.

A represents a cylinder, of gutta-percha or other suitable material, having one end rounded off, as shown, so as to be readily inserted into the vagina.

B is a flexible bag, made of rubber or any other suitable flexible material, and arranged to surround the cylinder A, to which it is hermetically sealed.

The cylinder A is preferably made solid, with three passage-ways pierced through it. The passage-way *a* is for the purpose of conveying the fluid into the vagina, and in order that the said fluid shall be injected in the form of a spray to wash the walls of the vagina a series of perforations, *e*, are made in the rounded point of the cylinder A, to communicate with the passage-way *a*.

b is the passage-way for the escape of the fluid. The opening of this passage-way extends through the side of the cylinder A between the top of the bag B and the perforations leading into the passage-way *a*.

d is a passage-way through the cylinder A into the bag B.

The passage-way *a* is provided with a tube, C, leading to the syringe. The passage-way *b* is provided with a flexible tube, D, intended to lead into a basin or other receptacle, and the passage-way *d* is provided with a tube, E, preferably provided with a mouth-piece and valve, so that the bag B may be inflated.

From the foregoing description it will be understood that the instrument is inserted into the vagina when the bag B is not inflated. When in proper position, the bag B is inflated, preferably with air, and when so inflated forms a cork to completely stop up the passage-way. The injector is then used and the fluid discharged into the vagina escapes through the passage-way *b* and tube D into the basin or other receptacle without any of it escaping onto the clothes of the patient or the bed upon which she may at the time be lying. When the operation is performed, the valve in the tube E is opened and the bag B permitted to collapse, when the instrument may be readily withdrawn.

The foregoing description, with the drawings, describes the instrument in what we consider the best form; but it will of course be understood that the form may be varied without altering the principle of the invention, and the materials and dimensions of the various parts may also be changed to suit the taste of the manufacturer or the physician adopting the instrument.

What we claim as our invention is—

1. The cylinder A, having passage-way *a* and escape passage *b*, independent of said passage *a* and extending through the side of the cylinder, combined with the flexible inflatable bag B, surrounding said cylinder and provided with an inflation passage independent of said passages *a* *b*, substantially as and for the purposes specified.

2. The cylinder A, having passage-way *a*, escape passage-way *b*, and inflation passage-way *d*, each independent of the other, combined with the flexible inflatable bag B, surrounding said cylinder, substantially as and for the purposes specified.

Galt, September 2, 1885.

JAMES W. WARD.
GEO. P. SYLVESTER.

In presence of—

E. J. BEAUMONT,
W. V. HOWELL.