(No Model.)

G. E. PHILBRICK.

SYRINGE.

No. 343,252. Patented June 8, 1886.

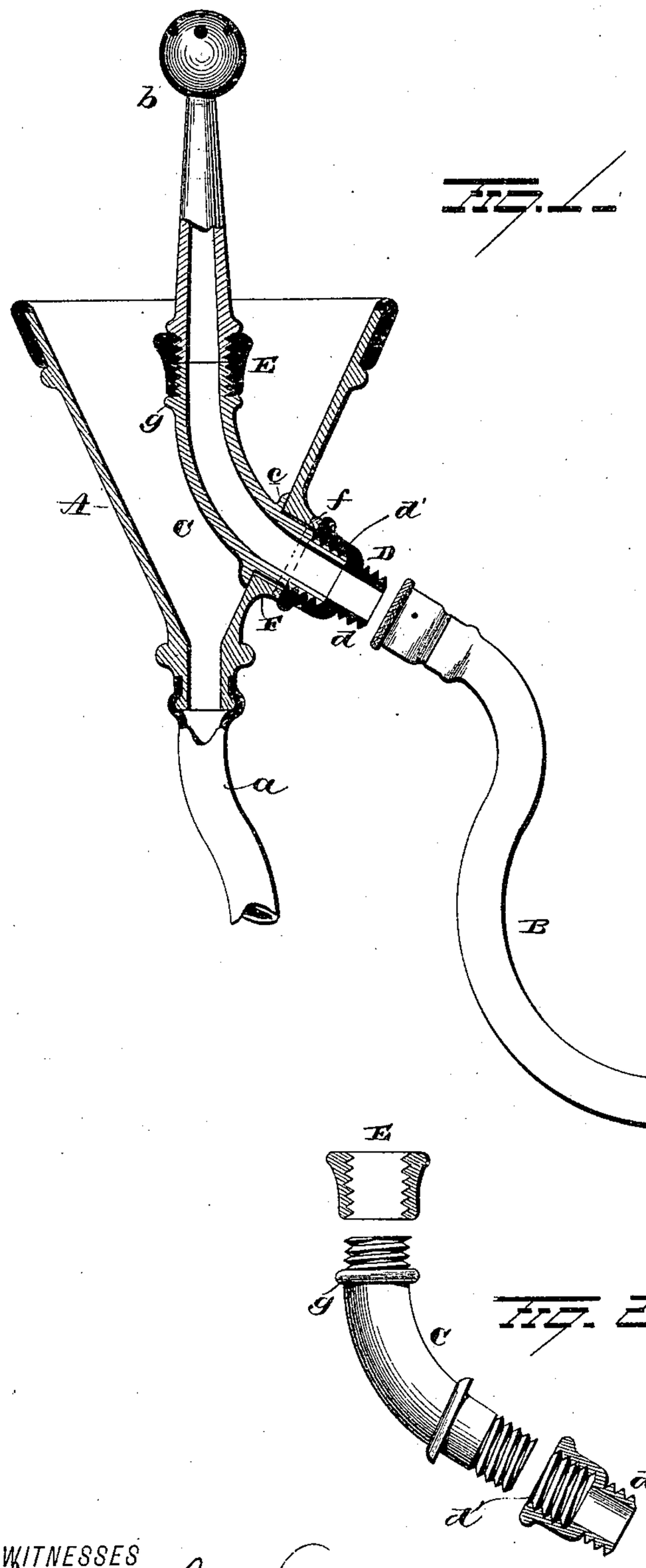

FIG. 1.

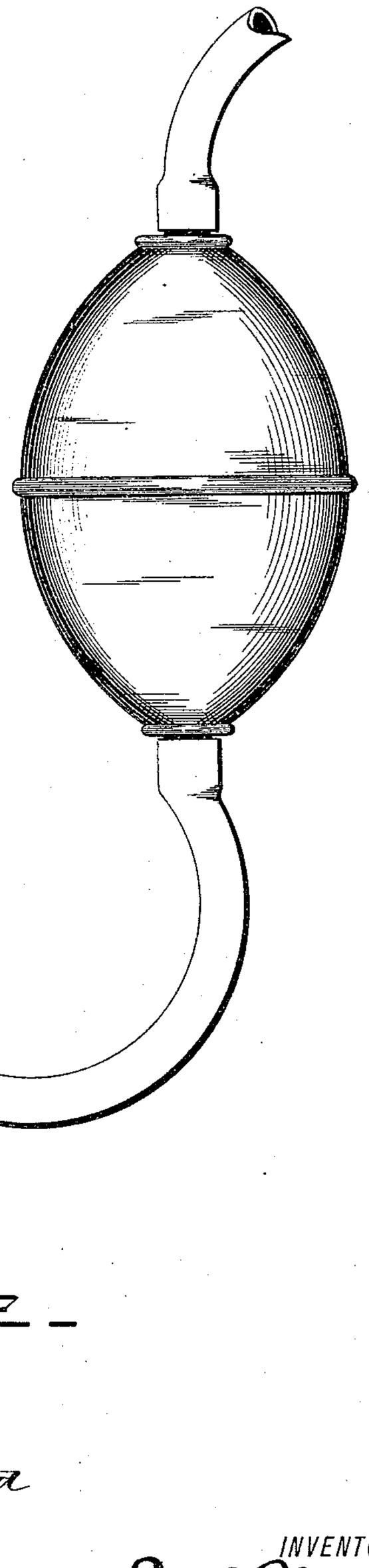

FIG. 2.

WITNESSES

C. D. Nottingham

J. E. Jones

INVENTOR

Geo. E. Philbrick.

By H. A. Simmons.

Attorney

UNITED STATES PATENT OFFICE.

GEORGE EDWIN PHILBRICK, OF MANCHESTER, NEW HAMPSHIRE.

SYRINGE.

SPECIFICATION forming part of Letters Patent No. 343,252, dated June 8, 1886.

Application filed October 24, 1885. Serial No. 180,807. (No model.)

To all whom it may concern:

Be it known that I, GEORGE EDWIN PHILBRICK, of Manchester, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Syringes; and I do hereby 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.

My invention relates to an improvement in vaginal douches.

On the 7th day of July, 1885, Letters Patent were granted to me for an improvement in vaginal douches, in which a funnel-shaped back-flow receiver provided with a waste-tube leading from its nozzle was provided with a curved tube forming a section of the discharge-tube leading from the bulb of the syringe to the discharge-nozzle, and adapted to be secured in the side of the said back-flow receiver, and provided with a female thread in its end located within the receiver, and a male thread on its end without the receiver, for the purpose of attaching thereto the discharge-nozzle and discharge-tube of a syringe, in which said parts were provided, respectively, with a male and female thread.

The object of my present invention is to provide a bent-tube section adapted to use in connection with vaginal douches of the general construction above outlined, which will admit of the attachment thereto of any of the best forms of syringes now in use.

With this end in view my invention consists in certain features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a view of the douche in adjustment for use, and Fig. 2 is a detached view of the bent-tube section.

A represents the back-flow receiver; *a*, the waste-tube; B, the discharge-tube of a syringe, and *b* the discharge-nozzle.

The improved bent-tube section consists of three parts or sections. C is the main section. It is preferably of curved form, as shown, and is adapted to extend through and snugly fit a perforation, F, in the side of the back-flow receiver. The said section is provided with a collar or flange, *c*, which serves as a bearing on the inside of the receiver to locate the tube in the proper position. The flange G is preferably formed of metal, and either formed integral with or firmly secured to the part C and shaped to conform perfectly to the curve of the receiver. A flexible washer, *f*, of rubber, for example, placed on the end projecting outside of the receiver, is forced snugly into contact with the outside surface of the receiver by the threaded tip D, and thereby seals the joint between the part C and the wall of the perforation liquid-tight. A flexible washer might also be inserted between the flange *c* and the inside surface of the receiver as an additional precaution against leakage, or the latter might be used alone, the outer washer being dispensed with and the end of the tip D made to bear directly against the outside surface of the receiver. Each end of the part C is provided with a male thread, and the end within the receiver is further conveniently provided with a flange, *g*, at the base of the threaded portion to form a stop or bearing for the end of the tip, or for a washer which may be interposed between the end of the tip and the flange. D represents one of the tips and E the other. The tip D consists of a male-threaded section, *d*, and a female-threaded section, *d'*. The female-threaded section *d'* is adapted to fit either end of the part C, and thus present a male thread to either the discharge-tube leading from the bulb of a syringe or to the base of a discharge-nozzle, as may be desired. The tip E consists simply of a female-threaded section adapted to fit either end of the part C and thus present a female thread to either the discharge-tube or discharge-nozzle, as may be required.

Since all the improved forms of syringes have a nozzle secured to the discharge-tube either by a male thread on the nozzle and a female thread in the tube, or vice versa, it follows that the three-part tube above described with its interchangeable tips will admit of its attachment to syringes in general, and thus enhance its value and usefulness.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention; hence I

do not wish to limit myself strictly to the construction herein set forth; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with the back-flow receiver and a bent tube extending through its side, of the removable tips or couplings, one of which is provided with both a male and female thread, and the other with a female thread only, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

GEORGE EDWIN PHILBRICK.

Witnesses:

ROBERT D. MARTIN,

A. H. PAIGE.