

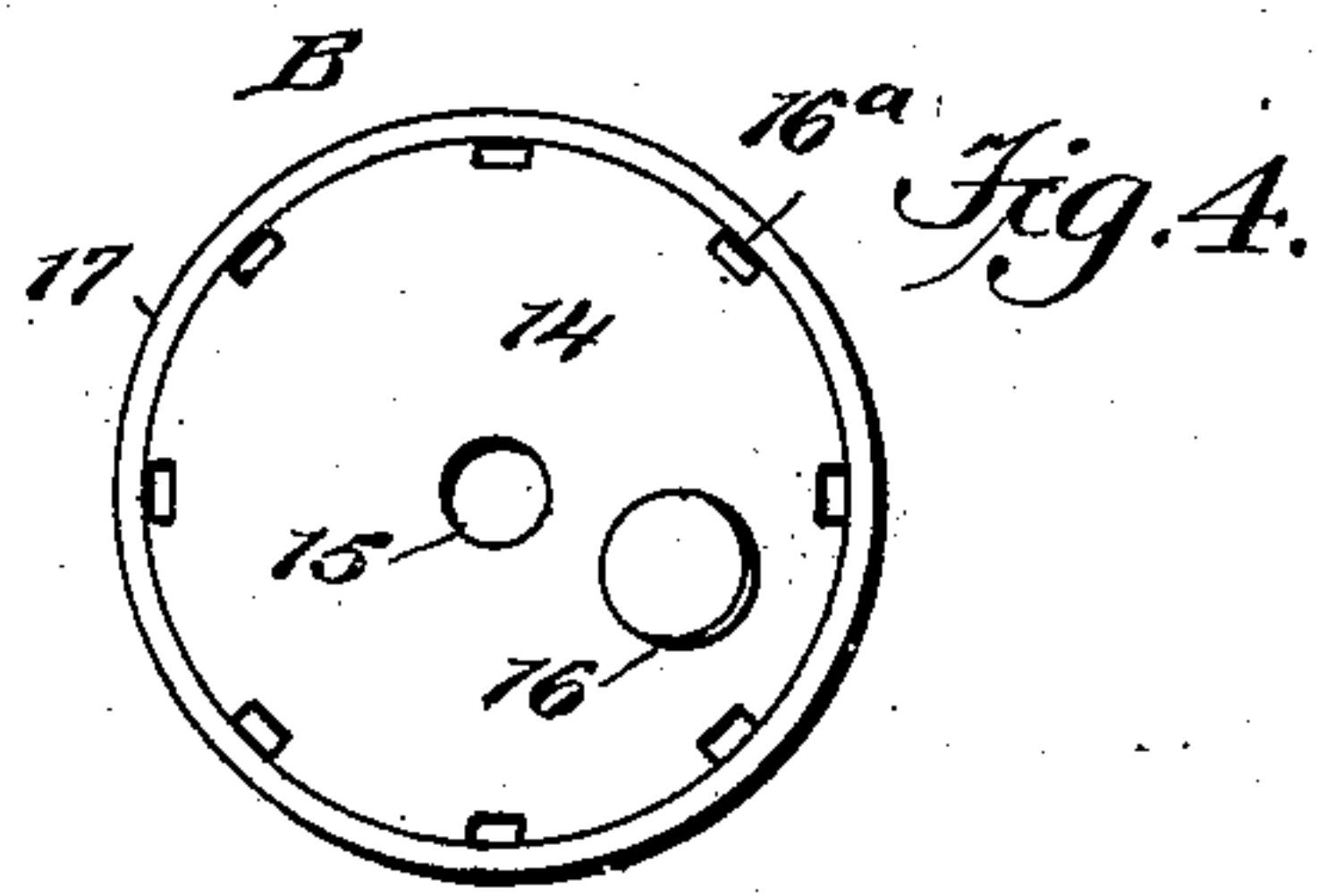
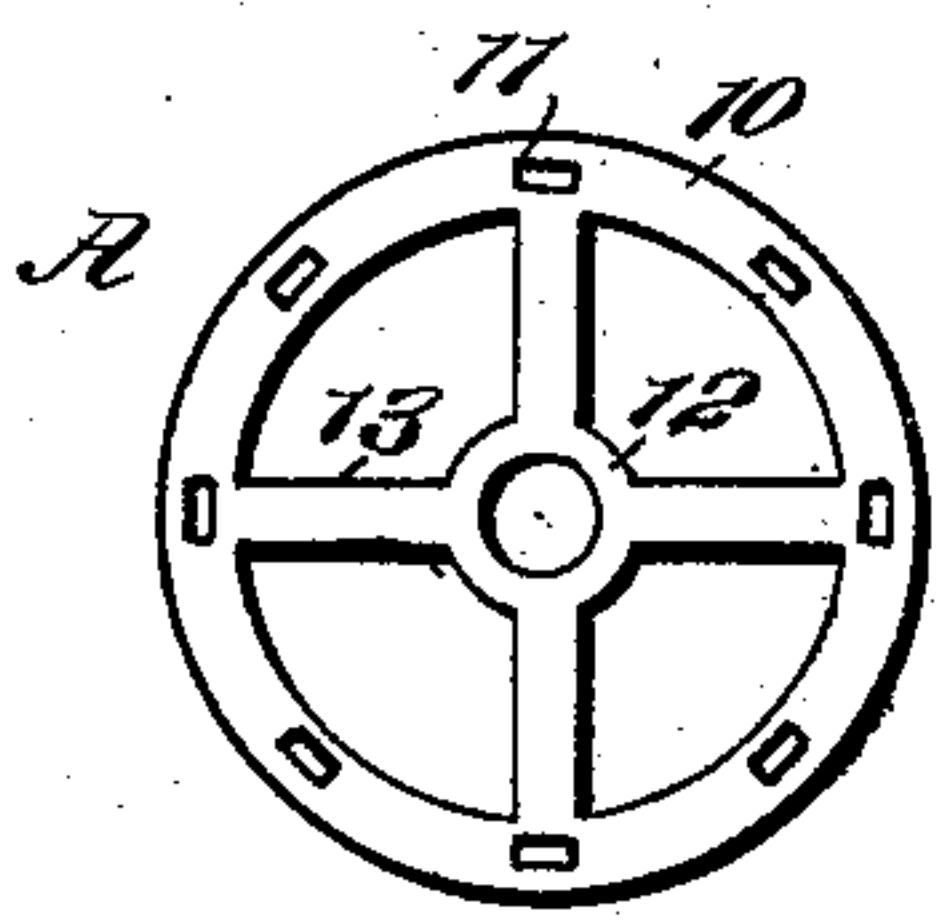
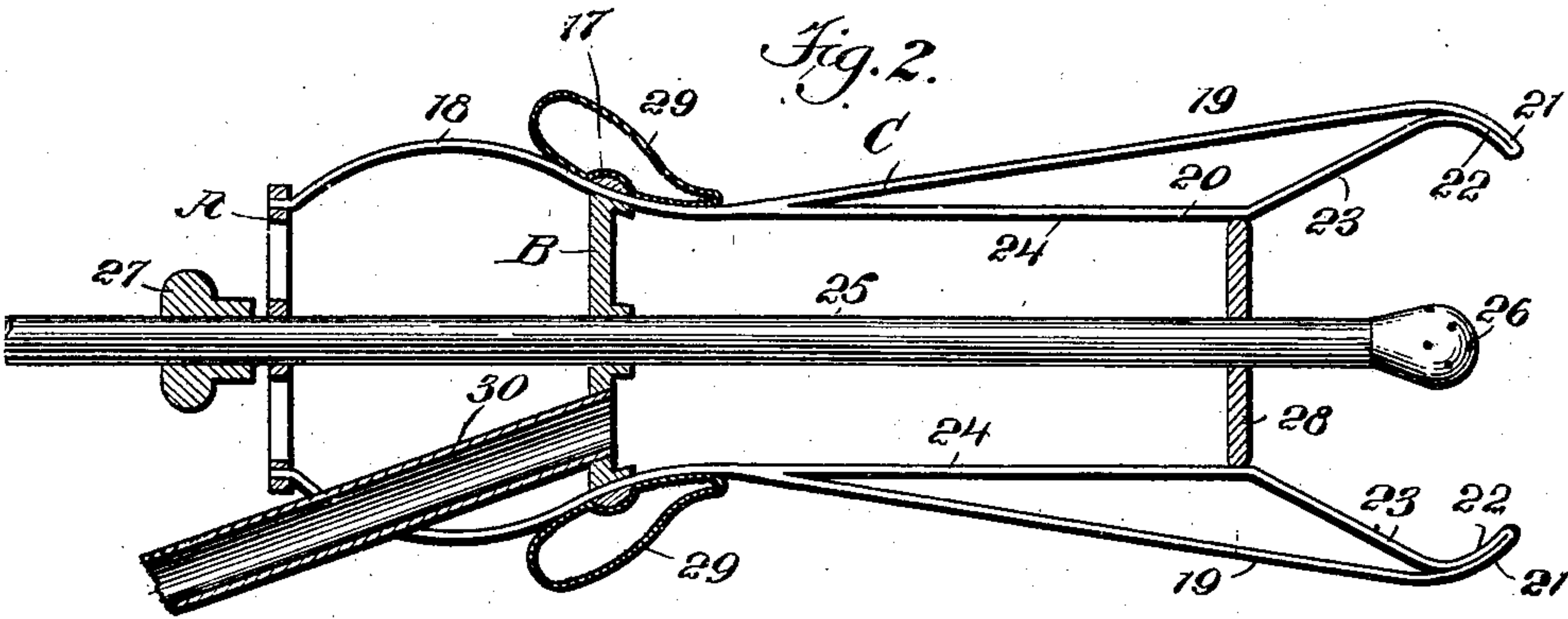
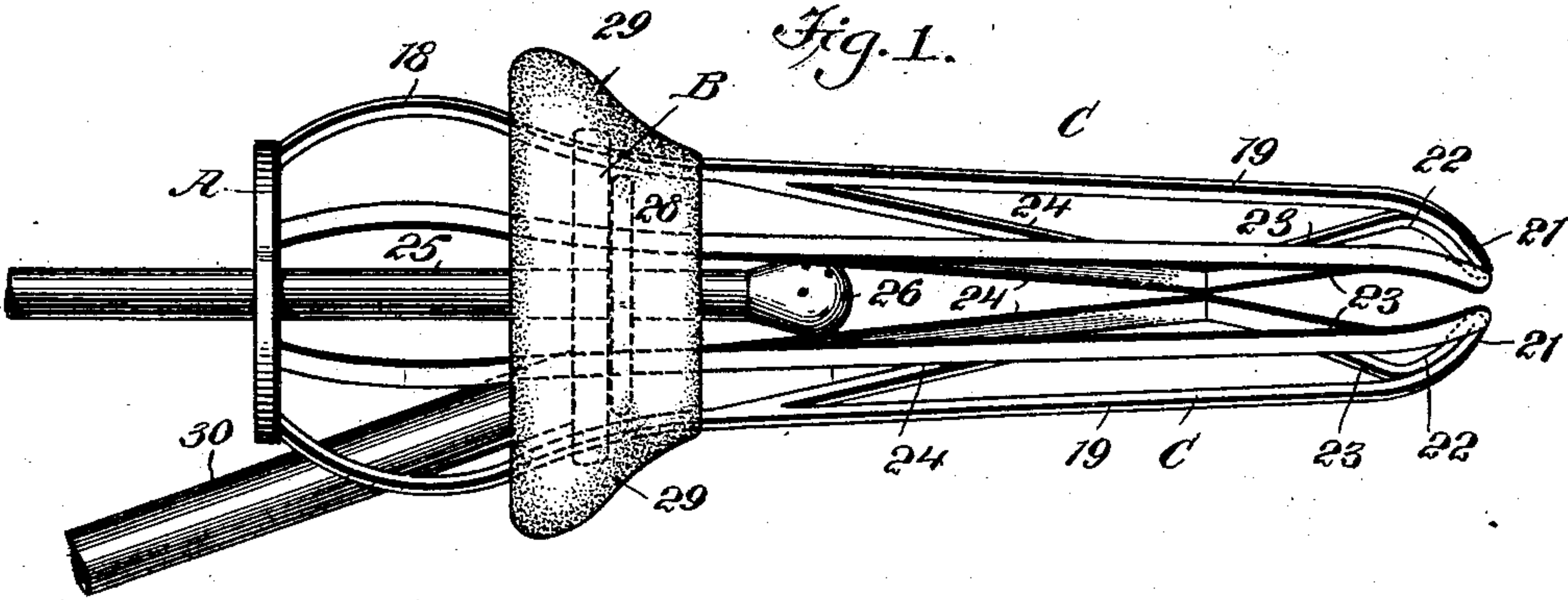
No. 705,371.

Patented July 22, 1902.

A. ANDERSON & M. B. S. B. PACKNESS.
VAGINAL INJECTOR.

(Application filed Feb. 16, 1901. Renewed Apr. 3, 1902.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

ANDREAS ANDERSON AND MARTIN B. S. B. PACKNESS, OF DENVER,
COLORADO.

VAGINAL INJECTOR.

SPECIFICATION forming part of Letters Patent No. 705,371, dated July 22, 1902.

Application filed February 16, 1901. Renewed April 3, 1902. Serial No. 101,232. (No model.)

To all whom it may concern:

Be it known that we, ANDREAS ANDERSON, a citizen of the United States, and MARTIN BEHRING SEBBELOW BOEGH PACKNESS, a subject of the King of Denmark, both residents of Denver, in the county of Arapahoe and State of Colorado, have invented a new and Improved Vaginal Injector, of which the following is a full, clear, and exact description.

10 The purpose of the invention is to so construct a vaginal injector that by reason of its perfect shape the apparatus can be safely and easily introduced and as easily withdrawn.

15 A further purpose of the invention is to provide a vaginal injector capable of expanding the vagina to its fullest extent, laying open the mouth and entire lower parts and sides of the uterus, thus permitting each and every part of the female organs to be thoroughly douched.

20 The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

25 Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

30 Figure 1 is a side elevation of the device in closed position. Fig. 2 is a vertical section through the device in expanded position. Fig. 3 is a face view of the outer tie member of the device, and Fig. 4 is a face view of the inner or forward tie member associated with the device.

35 The outer tie member A is shown in detail in Fig. 3, and consists of a peripheral section 10, in which a series of openings 11 is made, a hub 12, and spokes or arms 13, which connect the hub with the peripheral section. 40 The inner tie member B (shown particularly in Fig. 4) is made preferably in two sections, including a main disk section 14, having a central opening 15 and an opening 16 at one side of the central opening 15, together with 45 marginal openings or apertures 16^a, corresponding to the openings or apertures 11 in the outer or rear tie member. (Shown in Fig. 3.) In connection with the disk 14 a band 50 17 is employed, which band when placed upon the disk 14 closes the peripheral open-

ings or apertures 16^a of the disk 14. The body portion of the device consists of a series of expansible arms C. The outer or rear ends of these arms are secured in any 55 suitable or approved manner in the openings 11 of the outer tie member A of the device, and the said arms likewise pass through the apertures 16^a in the disk section 14 of the forward or inner tie member B and are held in 60 position by the band or ring 17 when the latter is fitted to place upon the disk 14. These body members C are outwardly curved or convexed, as shown at 18 in Fig. 2, between the two tie members A and B, and from a 65 point just beyond or forward of the inner tie member B the expansible arms C are made in two sections 19 and 20. The sections 19 of these arms, which are the outer sections, are practically straight and terminate at their 70 forward ends in downwardly and inwardly inclined curved sections 21, which meet or constitute continuations of corresponding curved sections 22, forming a portion of the inner sections 20 of the said expansible arms. 75 These lower sections 20 are so shaped between the curved portions 22 and the rear portions of the outer or main sections 19 of the arms in front of the inner tie member B that they produce two inclined planes 23 and 24, as is best 80 shown in Fig. 2. A tube 25 is made to slide in the hub 12 of the outer tie member or section A of the device and through the central opening 15 in the inner or forward tie member B, and the tube 25 at its forward end terminates 85 in a rose-nozzle 26, while near the rear or outer end of the tube 25 a stop 27 is located on the tube, which limits the forward movement of the said irrigating or flushing tube.

90 An expanding-disk 28 is secured upon this irrigating or flushing tube 25 at a point near its forward or inner end, as is shown in Figs. 1 and 2, and when the body C is in the collapsed position shown in Fig. 1 its expanding-disk 28 lies close to the inner or forward 95 tie member B, as is shown in dotted lines in Fig. 1; but when the device is introduced into the organ it is designed to enter the flushing or irrigating tube 25 is forced inward or forward, and consequently the expanding-disk 28, carried by this tube, will engage with the rear inclined planes 24 of the 100

body members C and will force outward or expand such members, and when the stop 27 is practically in engagement with the outer tie member A the expanding-disk 28 will be located at the junction of the inclined planes 23 and 24 of the body members C of the device and the said body members will have been expanded to such an extent that the vaginal canal will be opened, so that the solution passed through the irrigating-tube 25 may not only reach the walls of the vaginal canal, but may also be brought in flushing contact with the uterus.

In order to prevent the device from irritating the outer lips of the vagina, a pad 29 is secured to the exterior of the body members C of the body of the device, and this pad is usually made somewhat conical or tapering and contains air, being practically an air-cushion. It is secured to the ring 17 of the inner tie member B of the device in any suitable or approved manner. The pad 29 in its association with the inner tie member B forms a cup into which the douche or irrigating-liquid is received after it has performed its function, and such liquid is discharged to a convenient receptacle through the medium of a tube 30, which is secured in the side aperture or opening 16 in the disk 14 of the inner tie member and extends at a downward inclination out between the body sections or members C at those portions of said members which lie between the two tie members A and B.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. In a vaginal injector, expansible body members, each having its forward portions formed of an inner and outer section, the inner section being formed with inclined planes, a tie member for the outer portions of the body members, an irrigating or injecting tube slidable in the tie member, and an expanding member carried by the said tube and arranged for engagement with the inclined planes of the inner sections of the body members, for the purpose specified.

2. In a vaginal injector, expansible body members having their extremities curved inwardly and each provided with an inwardly-extending member having oppositely-inclined inner surfaces, spaced tie members to which the inner ends of the body members are rigidly secured, an irrigating or injecting tube slidable in the tie members, and an expanding member carried by the tube and adapted for engagement with the rear inclined surfaces of the body members, as set forth.

3. A vaginal injector, consisting of tie members, body members secured at their outer ends in the said tie members, and having their extremities curved inwardly, each of the said members having their forward portions formed of an inner and outer section, the inner sections having oppositely-inclined surfaces at their inner portions, an injector or

irrigating-tube held to slide through the tie members, the said tube being provided with a spray-nozzle at its forward end, and a disk carried by said tube, adapted for engagement with the inclined portions of the body members, as described.

4. A vaginal injector, consisting of tie members, body members secured at their outer ends in the said tie members, the forward ends of the said body members being free and their extremities curved inwardly, the said body members at their free portions having oppositely-inclined surfaces at their inner portions, an injector or irrigating-tube held to slide through the tie members, the said tube being provided with a spray-nozzle at its forward end, a disk carried by said tube, adapted for engagement with the inclined portions of the body members, a stop limiting the forward movement of the said tube, a conical pad extending across the outer faces of the body members adjacent to the forward or inner tie member, the said pad and forward or inner tie member constituting a receptacle for liquid, and an outlet-tube connected with the inner or forward tie member, through which the liquid introduced by the device may be discharged, for the purpose set forth.

5. In a vaginal injector, the combination, with an outer tie member and an inner tie member, the outer tie member being provided with a series of peripheral openings and a hub, the inner or forward tie member having also peripheral openings and a band which covers the openings, together with a central opening and a side opening, and a series of body members having their outer ends secured in the peripheral apertures of the outer tie member, which body members also enter the peripheral openings in the inner or forward tie member and are held in position by the band portion of said member, the body members being outwardly arched between the outer and inner or forward tie member, the free ends of the body members having their forward extremities downwardly and inwardly curved and provided at their inner portions with oppositely-directed inclined planes, of a tube held to slide in the tie members, terminating at its forward end in a sprinkling-nozzle, a disk carried by the forward portion of the tube, adapted to engage with the inclined walls of the body members at their front portions, and an outlet-tube for liquid connected with the inner or forward tie member, extending downward and outward between the body members, for the purpose set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

ANDREAS ANDERSON.
MARTIN B. S. B. PACKNESS.

Witnesses:

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AUG. H. WEINHOLD.