

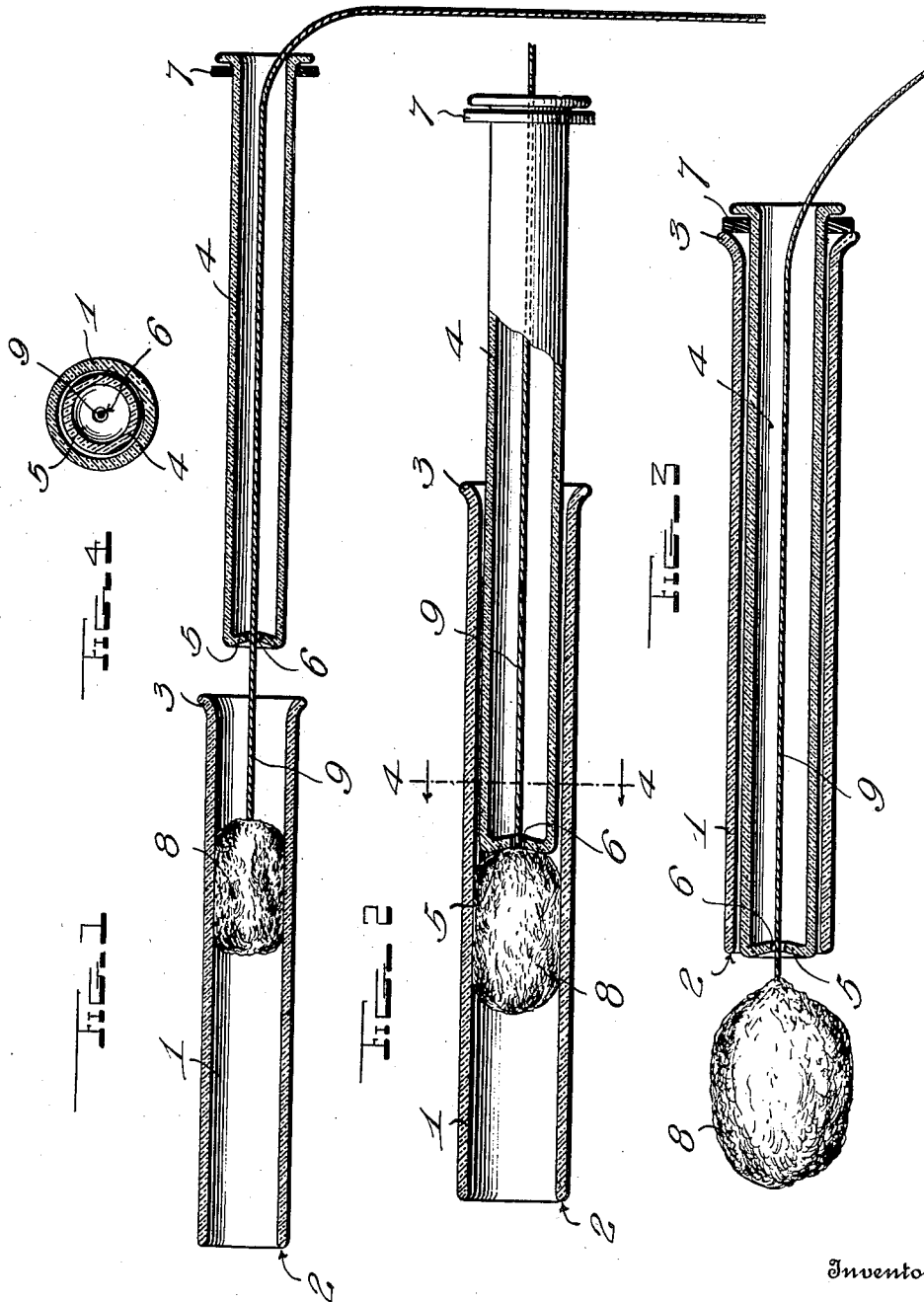
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APPLICATOR.

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1,131,349.

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APPLICATOR.

1,131,349.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that J. AVARD AUGUSTUS ELLIS, citizen of the United States, residing at the city and in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Applicators; and I do 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 primarily to medical applicators but more especially to those which are intended to be inserted into the vagina or rectum for the treatment of diseases therein.

One object of my invention is to provide a device of this character by means of which a medicament can be easily inserted into the vagina or rectum by the person using the same and deposited in any desired locality therein.

Another object of my invention is to provide an inexpensive applicator which is simple of construction and sanitary.

Another object of my invention is to provide an applicator which will be of assistance to the physician in the treatment of inflammatory conditions of the uterus and adnexa, pelvic cellulitis, etc., by saturated tamponage, thus providing an instrument that the physician may safely place in the hands of the patient, by means of which the patient can apply the treatment at home.

With these and other objects in view, my invention consists of certain novel details of construction and combination and arrangement of parts which will be hereinafter more particularly pointed out and claimed.

In the accompanying drawings in which corresponding parts are indicated by similar reference numerals, Figure 1 is a longitudinal section of my improved applicator, illustrating the inner and outer tubes positioned for use; Fig. 2 is a similar view, the inner tube being only partially in section and illustrating the latter partially inserted within the outer tube; Fig. 3 is a longitudinal section, the inner tube having been completely inserted within the outer one; Fig. 4 is a transverse section taken on the line 4—4 of Fig. 2.

Referring more particularly to the drawings, my improved applicator comprises a

straight cylindrical tube 1, of uniform bore preferably constructed of glass, whereby it can be conveniently inserted in, and withdrawn from the vagina without adhering to the walls of the latter. But of course it will be understood that I do not limit myself to this particular form or material. The front end edges of the tube 1 are rounded as at 2, so as to avoid any possibility of injury from sharp edges. The opposite or rear end is outwardly flared as at 3, thus forming a stop for the inner tube to be hereinafter mentioned as well as providing means for insuring a firm grasp while inserting the applicator, and providing an easy means of introducing the tampon into the outer tube.

Slidably mounted within the outer tube 1 is an inner tube 4, which may be constructed of the same material as tube 1, and is substantially equal in length thereto. The inner tube 4 has its front end closed as at 5, except for the centrally arranged aperture 6, while its opposite end is flared outwardly to enable it to be firmly grasped when being forced through the tube 1, also to form a stop to limit its inward movement.

Around the rear end of tube 4, adjacent to the flared end thereof, I provide a rubber washer 7 which acts as a cushioning member when the inner tube has been completely inserted into the outer tube.

The medicated tampon 8 used in connection with my improved applicator, is supplied with a cord 9, one end of which is securely fastened to said tampon, while the free end is threaded through the opening in the tube 4, passed through the latter and allowed to depend from the rear end thereof as clearly shown in Figs. 1 and 2. This arrangement permits one end of the cord 9 to remain on the exterior of the vagina or rectum after insertion of the tampon, whereby the latter can be easily removed.

In the operation and utilization of my improved applicator, a tampon, saturated with a suitable medicament, is placed in the flared end of tube 1, and the free end of cord 9 attached to said tampon is threaded through the opening 6 in the inner tube 4 and passed through the latter so as to depend from the rear end thereof, the inner tube 4 is then thrust through the tube 1 until the tampon is just ready for ejection from tube 1. The applicator in this position is now ready to

be inserted into the vagina or rectum as the case might be. After inserting the applicator into the vagina or rectum tube 4 is thrust on through tube 1 until the tampon 8 is ejected from its front end into the vagina or rectum as the case might be. Inner and outer tubes 1 and 4 are now withdrawn from the vagina or rectum, leaving the cord which passed through and depended from tube 4 on the exterior of the vagina, so that whenever desirable the tampon can be easily removed.

The word tampon as used in the following claims, is intended to indicate any absorbent substance which may be projected through tube 1, as above described.

From the foregoing it will be seen that I have provided a unique applicator, preferably of glass, because the glass construction permits the two tubes to be easily sterilized, and one that, owing to the extreme simplicity can be placed on the market at a comparatively nominal cost.

Having thus described my invention, what I claim as new is:

1. The combination with a tube for the insertion into the vagina or rectum and a tampon, with a cord attached thereto, to be placed within the tube, of a hollow plunger, through which said cord may be threaded, for ejecting the tampon from the end of said

tube after insertion into said vagina or rectum.

2. An applicator comprising a tube having its front end edges rounded to present a smooth surface, the rear end being outwardly flared to form a grasping means for said tube, an inner tube of substantially the same length as the outer tube slidably mounted within the latter, said inner tube having its front end closed and provided with a centrally disposed aperture, the opposite, rear, end being outwardly flared, a tampon adapted to be forced through and ejected from the inner end of said outer tube by the slidably disposed inner tube, and a cord having one end connected with said tampon, the other end being passed through the centrally arranged aperture in the closed end of said inner tube, whereby when said tampon has been ejected by the former into the vagina or rectum, the cord will remain on the exterior, permitting said tampon to be easily removed.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

AVARD AUGUSTUS ELLIS.

Witnesses:

I. J. DOHE,

WM. T. CHILD.