Sept. 22, 1925. 1,554,690

G. A. PRIDE

APPLICATOR FOR THE LOCAL APPLICATION OF SUPPOSITORIES

Filed April 26, 1924

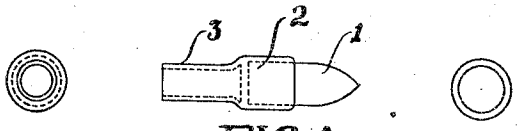


FIG. 1



FIG. 2.

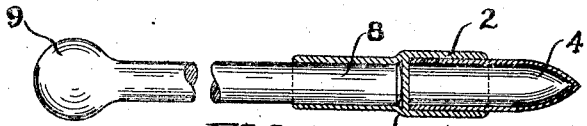


FIG. 3.

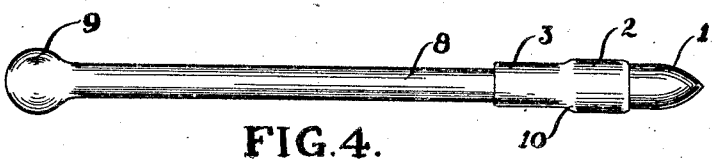


FIG. 4.

Witnesses:
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2. Vivian McCall

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UNITED STATES PATENT OFFICE.

GUSTAVUS A. PRIDE, OF SPRINGFIELD, ILLINOIS.

APPLICATOR FOR THE LOCAL APPLICATION OF SUPPOSITORIES.

Application filed April 26, 1924. Serial No. 709,142.

To all whom it may concern:

Be it known that I, GUSTAVUS A. PRIDE, a citizen of the United States, residing at 403½ West Monroe Street, in the city of Springfield, county of Sangamon, and State of Illinois, have invented a certain new and useful device known as an Applicator for the Local Application of Suppositories, of which the following is a specification.

This invention relates to a type of instrument that is adapted to be used for locally applying suppositories and the like.

One of the purposes of this invention is to provide an instrument which in its structure not only provides a capsule container for a suppository but also provides in the structure of that container a shouldered cap for the container in integral combination with a tubular sleeve on the rearward end thereof adapted to slidably engage and accommodate a cylindrical handle to be used in the local application of the suppository into the rectum or other organ of patients needing such medicine.

A further object of my invention is to provide a device for the purpose mentioned that will be easy to operate and of the proper design to be easy and comfortable in its application and especially to have in its structure means for accommodating a handle of predetermined length that will make it possible to more successfully insert a suppository to an extent within the place of local application within the limits of the length of the handle.

A further object of my invention is to provide an applicator for suppositories of the character described that will be simple in construction and economical to manufacture in addition to the unusual comfort secured in using the same.

I attain the objects of my invention above mentioned by the elements of its design which are described in the annexed specifications, recited in the claims and illustrated in the accompanying drawings in which like reference numerals indicate the same structural parts in the figures.

Referring to the several figures:

Fig. 1 is a side view of the capsule of my invention shown in its assembled form without the handle. Fig. 2 is a longitudinal section of the two telescopically fitting sections of the capsule shown in Fig. 1. Fig. 3 is a longitudinal section of the same two sections shown in their telescopically engaged relations. This figure also shows how the handle that is to be normally used with this capsule fits into the sleeve for the accommodation of the same. Fig. 4 is a side view of the completely assembled applicator of my invention.

Referring now to the several elements of my invention shown in the respective figures which elements are designated by numerals, I shall attempt to point out the relation of the several parts in their co-operative function in the normal use of the applicator. I shall now point out the function of each detailed part and its relation to the whole structure of the invention when in normal use.

In the ordinary practices in using suppositories it has been found that in order to get the best results such suppository ought to be inserted to some extent within the rectum or other organ and it has been found very inconvenient and unsatisfactory to attempt to apply such suppositories without some comfortable and efficient means of making sufficiently deep insertion thereof. Such practices have also been observed to be unsanitary as well as unsatisfactory. In designing a device of this character it is essential to have a capsule of such form as a container for the suppository that its outline will make it possible to effect an easy and painless insertion of the same as well as to make it possible to retain the same in the place where it is inserted and these objects of my invention are obtained in the applicator of my invention, illustrated in the drawings in which numeral —1— illustrates the front container section of the capsule of my invention. This container section is adapted to be filled with a suppository solution which fills cavity —4— therein. After filling the container section of the capsule, cap —2— is telescopically fitted over the open end of said container section and allows the open end of the container section to occupy the interior of the cap —5—. When the capsule is loaded and ready for use handle —8— is inserted into a tubular sleeve of the cap which is an integral part thereof. A wall —6— serves as a dividing wall or a cover means for covering the container section of the capsule. When it is desired to use the applicator the front container section which is pointed and has the general form of a paraboloid is inserted into the rectum making it possible to make a comfortable in-

sertion, the instrument is slowly and carefully inserted to a predetermined extent by pushing on the knob —9— of handle —8—. After the insertion is made said handle is withdrawn from the sleeve —7— of the cap leaving the capsule within to dissolve.

It will be noted that shoulder —10— serves as an effective means of retaining said capsule while the handle is being withdrawn.

Having thus described the nature of my invention what I claim as new and useful and desire to secure by Letters Patent is:

1. An applicator for the local application of suppositories having in co-operative combination a capsule and a handle for the capsule, said capsule provided with an anterior container section of paraboloidal form and a posterior cap section comprising in integral combination a larger sleeve at one end and a smaller sleeve at the other end and said sleeves separated by an integral wall; said larger sleeve adapted to provide telescopically engageable cap means for said anterior container section and said smaller sleeve adapted to slidably accommodate said applicator handle, and an integral shoulder in said cap section formed by the difference in the outside diameters between said integral sleeves, said shoulder adapted to provide stop means for retaining said capsule within the place of local application while removing said applicator handle therefrom.

2. In an applicator of the character described comprising a gelatine capsule having a telescopically engageable front container section and a rear cap section and a slidable detachable handle for the same, the combination with a hollow front container section for holding a suppository and having the outer surface out-line of a paraboloid; of a rear cap section for telescopically covering the open end of said container section, said cap section provided with a shoulder and a sleeve, said shoulder adapted to serve as stop means for aiding in holding said capsule within the place of local application and said sleeve adapted to accommodate said slidable detachable handle as and for the purpose set forth.

3. As a new article of manufacture an applicator with a slidable detachable handle comprising in co-operative combination a gelatine capsule having telescopically fitting longitudinal front and rear sections of hollow cylindrical form, the front section having the general form of a hollow paraboloid providing smooth and easy local application, for a medical suppository; the rear section adapted to telescopically engage and cover the open end of the suppository containing section and serve as a cap therefor; integral cylindrical tubular sleeve means provided in said rear cap section, adapted to provide slidable receiving engagement means for said applicator handle; and integral shoulder means also provided in said gelatine cap section adapted to provide stop means for said capsule in retaining the same within the place of local application while removing said slidable detachable handle therefrom, as and for the purpose set forth.

In witness whereof I hereunto set my hand and seal this 18th day of April A. D. 1924.

GUSTAVUS A. PRIDE. [L. S.]