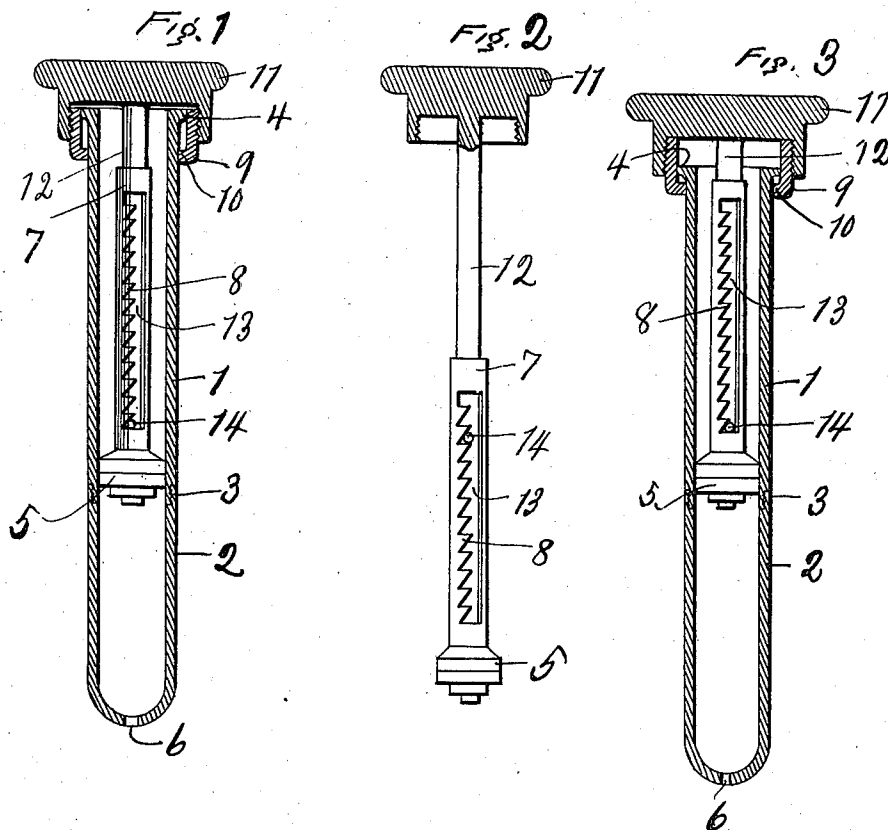


R. A. KOOKEN.
OINTMENT APPLIER.
APPLICATION FILED FEB. 10, 1910.

963,051.

Patented July 5, 1910.



Witnesses
Frederic R. Willis
Robert Watson

Inventor,
Robert A. Kooker,
A. L. Jackson,
Attorney

UNITED STATES PATENT OFFICE.

ROBERT A. KOOKEN, OF FORT WORTH, TEXAS.

OINTMENT-APPLIER.

963,051.

Specification of Letters Patent.

Patented July 5, 1910.

Application filed February 10, 1910. Serial No. 543,146.

To all whom it may concern:

Be it known that I, ROBERT A. KOOKEN, a citizen of the United States, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Ointment-Appliers, of which the following is a specification.

My invention relates to an instrument for treating the interior cavities of a person or animal and particularly the rectum and vagina and the object is to provide an instrument which will place a predetermined quantity of ointment or other medicine in a cavity at each operation of the instrument and which will not cause overdoses of medicine or ointments.

Another object is to produce an instrument which is compact and which will not injure the cuticle.

Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings which form a part of this application.

Figure 1 is a longitudinal section of the barrel and cap for the barrel, showing the piston at the highest point in the barrel; Fig. 2 is an elevation of the piston and its stem and a plunger operating within said stem, the cap of the plunger being shown in section; Fig. 3 is a longitudinal section, similar to Fig. 1, showing a variation in the length of the barrel and showing the plunger cap raised to its highest point.

Similar characters are used to indicate the same parts throughout the several views.

The instrument is provided with a barrel composed of parts 1 and 2 screwed together at a joint 3. The barrel 1 has a bead 4 at the orifice thereof. This bead 4 serves as a stop for the plunger. The part 2 is for the purpose of containing the ointment or other material to be applied. A piston 5 is provided for forcing the medicine out of the barrel 2 through the nozzle 6. The barrel 2 must have a rounded end as shown to prevent injury to the parts to be treated. The stem of the piston consists of a tubular extension 7 which has a rack 8 formed in one side thereof. A stroke limiting collar 9 having an interior bead 10 is mounted on the

barrel 1 and the handle or cap 11 of the plunger 12 is screwed on the collar 9. The stem 7 has a longitudinal slot 13 therein and the plunger 12 has a lug 14 which moves vertically in the slot 13. The lug 14 is adapted to engage any one of the teeth of the rack 8. The teeth of the rack 8 are formed an equal distance apart and designed to permit or force the movement of the piston 5 to administer one dose at a time. The space between the beads 4 and 9 should be the same as the space between two teeth of the rack 8. The object is to permit the plunger with its lug 14 to move only far enough at one stroke to reach the next tooth on the rack 8.

The device is operated by holding the barrel 1 in the hand and operating the plunger 12 by means of the cap 11 with the other hand, and the stroke limiting collar 9 will thus prevent the plunger rising more than one tooth at a stroke. When the plunger is drawn outwardly and turned slightly the lug 14 will engage the next tooth above. This operation may go on until the piston 5 has reached the bottom of barrel 2 and thus force the material out one dose at a time and it will be impossible to administer more than one dose at each stroke of the plunger.

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

1. A medical instrument comprising a barrel in two parts screwed together and having a discharge orifice at one end and a receiving orifice at the other end, an exterior bead formed on the edge of the barrel at the receiving orifice, a collar loosely mounted on the barrel and having a bead engaging the barrel and adapted to stop against said first mentioned bead, a piston operating in said barrel and having a tubular stem, a rack formed on said stem, a cap screwed on said collar, a plunger integral with said cap and a lug carried by said plunger adapted to engage the teeth of said rack.

2. A medical instrument comprising a barrel having a discharge nozzle at one end and a receiving orifice at the other end, an annular bead formed on the exterior of the barrel at the orifice end, a stroke limiting collar engaging said barrel and adapted to stop against said bead, a cap screwed on said collar, a piston moving in said barrel and

having a tubular stem with a longitudinal slot therein, a rack formed in said stem, a plunger integral with said cap, and a lug carried by said plunger and adapted to engage any one of the teeth on said rack to move said piston a step at a time.

In testimony whereof, I set my hand in

the presence of two witnesses, this 21st day of January, 1910.

ROBERT A. KOOKEN.

Witnesses:

A. L. JACKSON,

D. P. QUESENBURY.