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1,640,928

A. DONOVAN
RECTAL APPLIANCE
Filed Dec. 9, 1926

Fig. 1.

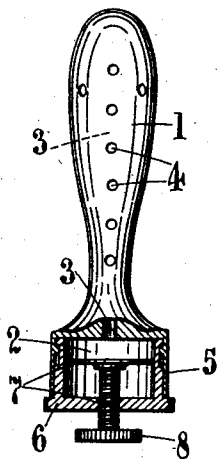


Fig. 2.

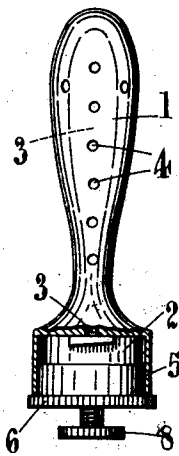


Fig. 4.

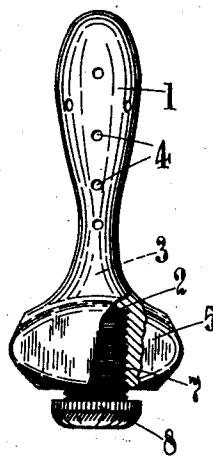


Fig. 3.

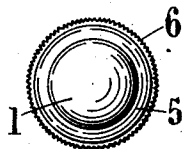
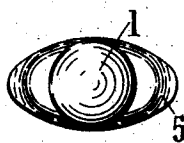


Fig. 5.



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RECTAL APPLIANCE.

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This invention relates to rectal appliances for use in the treatment of hæmorrhoids, and it has for its object the provision of an improved device for the delivery of a continuous supply of ointment as and when required to the rectal passage, without removing the device therefrom and for maintaining said passage in a slightly distended or dilated condition so as to prevent the adhesion of the opposite walls.

I attain this end by the construction shown in the accompanying drawing in which Figures 1 and 2 are views in elevation partly in section, and Figure 3 is a view in plan of one form of construction, and Figures 4 and 5 are views in elevation and plan respectively showing an alternative form of construction.

Throughout the views similar parts are marked with like numerals of reference.

The improved appliance comprises a stem part 1 of an elongated pear shape having at its smaller end an enlargement 5 containing a chamber 2. The stem 1 is provided with a relatively small central passage 3 and with a plurality of radially arranged holes 4 leading from said passage to the outside of the stem which are suitably distributed throughout the length of the stem. The passage 3 opens at its lower end into the chamber which may be of a round, oval, or other suitable exterior shape. The chamber 2 which is closed at its other end is furnished with an internal plunger 7. To enable motion relative to the chamber 2 to be imparted to said plunger it is threaded into the closed end of the chamber and is provided with an external knob 8 by which it can be rotated.

The plunger 7 may either take the form of a plate and rod as shown in Figures 1 and 2 in which construction the chamber is closed by a cap 6 through which the rod of the plunger 7 is threaded or of a simple rod—of a diameter large enough to fill the chamber 2—as shown—Figure 4 in which case no closure cap is required.

The screw action of the plunger 7 relative

to the chamber 2 provides a means both of producing relative movement between said parts, and of ensuring that said relative positions are maintained after relative adjustment.

In use, after the ointment has been placed in the chamber 2 and the appliance inserted in the rectum, the plunger 7 is screwed into the chamber which ejects some of the ointment out through the apertures 4. By further screwing the plunger into said chamber a further quantity of ointment can be ejected as and when required without removing the appliance from the rectum.

This appliance differs from all others in that it enables the ointment to be positively delivered in small quantities at a time for a continued period without withdrawing it from the rectum, that it is completely self-contained, and that it does not depend on any flexible part or spring action for its functioning.

What I claim is:—

1. A rectal appliance comprising a stem of an elongated pear shape having a relatively small central passage and a plurality of outwardly extending passages radiating from said central passage, a chamber in communication with said central passage, a plunger having longitudinal movement relative to said chamber, and means external to said chamber for causing said relative movement.

2. A rectal appliance comprising a pear-shaped stem having a relatively small central orifice, an oval shaped enlargement at the smaller end of said stem, a circular chamber in said enlargement which is in communication with the orifice in the pear shaped stem, a plurality of radially arranged passages leading out of the orifice in the pear shaped stem and distributed throughout its length, and a plunger screwed into said chamber having an exterior knob of a button shape by which it can be rotated in said chamber.

ALFRED DONOVAN.