

Fig. 1.

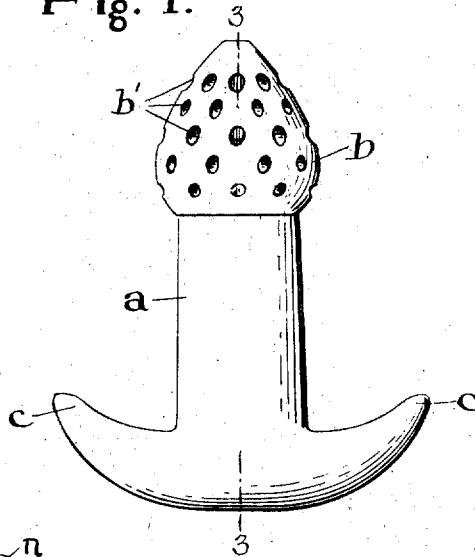


Fig. 2.

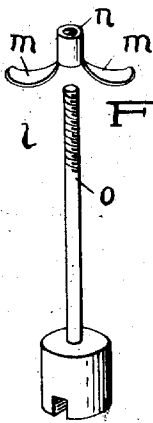
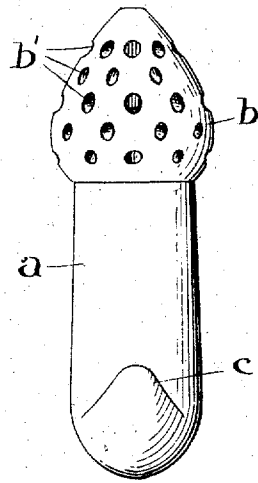


Fig. 6.

Fig. 5.

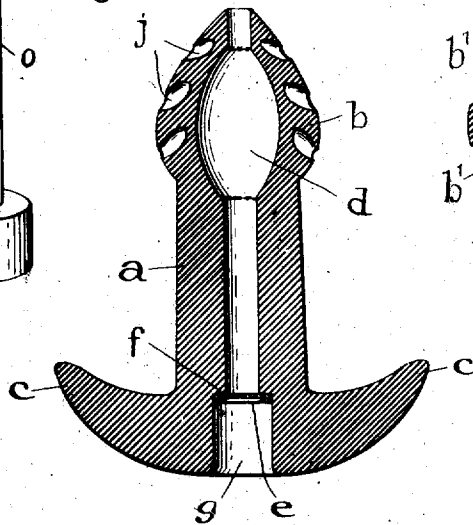


Fig. 3.

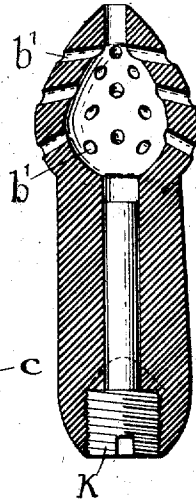
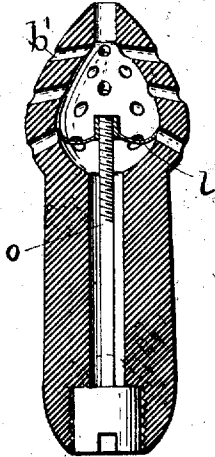


Fig. 4.



Witnesses
 Stuart Hilder.
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UNITED STATES PATENT OFFICE.

JOHN B. LOTT, OF ANDERSON, INDIANA.

DILATOR.

988,120.

Specification of Letters Patent.

Patented Mar. 28, 1911.

Application filed February 15, 1910. Serial No. 544,116.

To all whom it may concern:

Be it known that I, JOHN B. LOTT, a citizen of the United States, resident of Anderson, in the county of Madison and State of Indiana, have made a certain new and useful Invention in Dilators; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a side view of the invention. Fig. 2 is an end view of the same. Fig. 3 is a section on the line 3—3, Fig. 1. Fig. 4 is a similar view showing the expander in position. Fig. 5 is a sectional view of a modified form of the invention. Fig. 6 is a detail view of the expander with the parts thereof detached.

The invention relates to a dilator for use in expanding the rectum, and is designed for the distribution of a medicament for the cure of piles, fistula and other diseases of the rectum.

Other objects and advantages will hereinafter appear.

The invention consists in the novel construction and combinations of parts as hereinafter set forth.

In the accompanying drawings, illustrating the invention, the letter *a*, designates the hollow dilator body, having an enlarged head *b*, of a yielding or elastic nature and made of soft rubber or other suitable material, having a number of perforations *b'*, *b'*, surrounding the same. At the base of the dilator is provided oppositely extending branches *c*, *c*, of such shape as will fit neatly in the crotch. The cavity or central bore of the dilator runs through the branches *c*, *c*, the body *a*, and the enlarged head *b*, being expanded in said head as shown at *d*, the walls of the elastic head being of proper thickness to enable them to readily contract and expand in operation.

The hollow head having been charged with the medicament, the dilator is applied, the elastic head first contracting to allow the convenient insertion of the device and then expanding to hold it in place, the base branches *c*, *c*, serving as a stop to limit the inward movement of the device, and at the same time being of such conformation as

will fit neatly in the crotch and yet distribute the weight of the body thereupon to allow the user to sit down if desired.

A screw plunger *k*, is employed to express the charge from the perforations of the head in application. When this screw plunger is removed and it is desired to expand the dilator head positively, a spring expander *l*, shown in Figs. 4 and 6 of the drawings is utilized. This expander, which is designed to fit within the hollow dilator head, has spring branches or wings *m*, *m*, designed to bear against the inner walls of the hollow head, and a central screw-threaded body *n*, with which a screw stem *o*, has engagement.

In Fig. 5 of the drawings is shown a modification of the invention wherein the elastic head of the dilator is provided with surface pockets or recesses *p*, *p*, from which the medicament will melt and run out upon the diseased parts, while gases from the body will be allowed passage through the central bore of the dilator and out through a perforated washer *e*; or in some cases a solid washer may be employed. The washer fits against a shoulder *f*, at the top of an enlargement *g*, of the central bore.

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

1. A dilator having a hollow elastic head provided with perforations in its side walls, a body having a central bore communicating with the cavity of said head, said bore having an end enlargement, and a removable plunger fitting in said bore and capable of expressing the charge of medicament from the perforations of said head, said plunger having an enlarged head provided with a screw-threaded engagement with the walls of said end enlargement of said bore, and a supplementary removable device having branches bearing against the inside walls of said head to maintain the head in an expanded condition.

2. A dilator having a hollow elastic head provided with perforations in its side walls, a body having a central bore communicating with the cavity of said head, a removable plunger fitting in said bore and capable of expressing the charge of medicament from the perforations of said head, said plunger having screw-threaded engagement with the walls of said bore, to prevent escape of the medicament, and a supplementary removable device having branches bearing against

the inside walls of said head to maintain the head in an expanded condition.

3. A dilator having a hollow head provided with perforations in its side walls, a body having a central bore communicating with the cavity of said head, and base branches having oblique upper walls of an angular relation to each other, and a removable plunger fitting in said bore and capable of expressing the charge of medicament from the perforations of said head, said plunger having screw-threaded engagement with the walls of said bore.

4. A dilator having an enlarged hollow head provided with perforated walls, a body having a central bore communicating with the cavity of said head, and arcuate base branches having oblique upper walls of angular relation to each other, capable of fitting neatly in the crotch of the user.

In testimony whereof I affix my signature, in presence of two witnesses.

JOHN B. LOTT.

Witnesses:

CHARLE T. SANSBERRY,
MOSES A. RUSH.