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J. S. MALLORY
COLONIC IRRIGATING DEVICE
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Fig. 1.

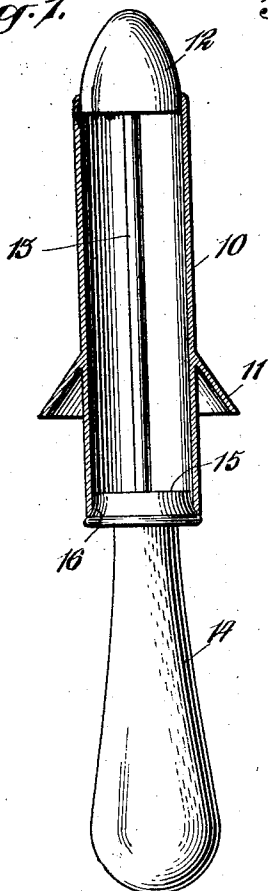


Fig. 2.

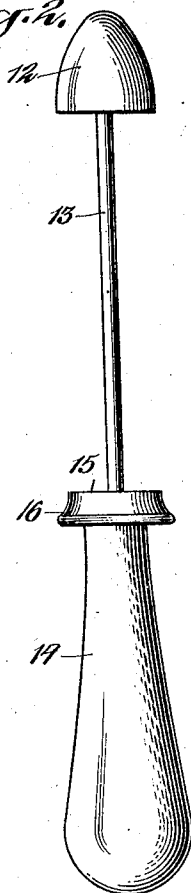
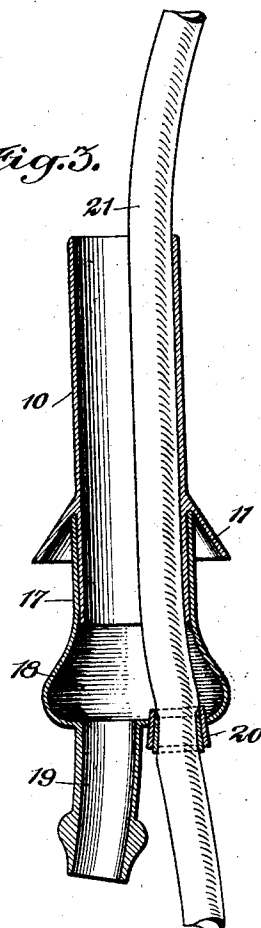


Fig. 3.



WITNESSES

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COLONIC IRRIGATING DEVICE.

Application filed December 14, 1925. Serial No. 75,406.

This invention relates to a colonic irrigating device.

The main object of the invention is to provide a simple and efficient device, which, when introduced for the purpose of irrigating the colonic tract will afford the maximum dimension of outlet possible without presenting any unnecessary barriers to the flow of fluid therefrom.

A further object resides in the provision of a simple and efficient means whereby the device can be readily introduced into its operative position.

A further object resides in the provision of a simple and efficient device which is composed of a minimum number of parts whereby the cost of manufacture is reduced to a minimum, as well as the simplicity of the operation.

The invention is illustrated in the drawings, of which—

Figure 1 is a longitudinal section through the irrigating tube.

Figure 2 is a side elevation of the tapered head which facilitates the introduction of the tube.

Figure 3 is a section through the tube with the cap disposed thereon, which cap is used after the tube has been introduced.

In its general application the invention essentially comprises a tube or cylinder of as large a diameter as can possibly be used and yet permit introduction into the rectum. This cylinder has a smooth uninterrupted interior. Its exterior near the bottom is provided with a sloping plate or shield which tends to close the mouth of the rectum while the device is in operation.

In introducing the tube a removable tapered head is placed at the front end of the tube, its head being connected by a stem extending through the tube to a handle at the rear end thereof. By reason of the tapered head the tube device can be easily introduced without causing any particular and unnecessary pain, and after the introduction has been effected the handle with the head is withdrawn through the tube, leaving the inner walls of the tube uninterrupted by any obstruction. At this point in the operation a cap is slipped over the lower end of the tube. This cap is of ample interior dimension and has a substantially large outlet opening and an inlet opening through which a flexible tube is inserted, and is

adapted to project well beyond the inner end of the tube into the colonic tract.

In this manner fluid of any desired character can be introduced through the inlet tube, and by continuously introducing the fluid the interior of the tract can be washed out thoroughly. By reason of the fact that the tube has no interruptions or obstacles whatsoever to the ready outflow of the fluid and any particles which may be dislodged from the walls of the tract, a thorough cleaning and irrigation can be effected in a much shorter time than is usually the case. The disadvantage of having small openings through which the material to be discharged is to flow is overcome as the device will not become clogged even though the particles removed are of considerable size.

In the preferred form of the invention shown in the drawings I use a tube 10 of ample diameter, having a smooth uninterrupted inner wall. On the outside, near the lower end I provide a sloping plate 11 which, as the tube is introduced, is adapted to close the opening to prevent any discharge outside the tube.

In introducing the tube I dispose a tapered head 12 at the front end thereof connected by the stem 13 extending through the tube to a handle 14 which has a head 15 provided with a sloping periphery 16 to fit snugly against the outer end of the tube. It is apparent that after the tube has been introduced the head can be withdrawn merely by withdrawing the handle.

After the tube is introduced and the handle has been withdrawn, removing the head, a cap 17 is slipped over the outer end of the tube, this cap being enlarged, as at 18, at its lower end. This cap is provided with a discharge outlet pipe of substantial dimension and with an inlet passage 20 through which a flexible tube such as 21 can be introduced. This tube 21 is adapted to extend as far beyond the inner end of the tube 10 as circumstances will permit. The cleaning and irrigating fluid is introduced through the pipe 21 and will fill the colon, during which time the connections of the outlet pipe 19 may be closed by any suitable means not shown. After the colon is filled to the desired degree the outlet pipe is opened and the fluid in the colon will run out. By reason of the fact that the tube 10 is of as large a dimension as is possible for proper intro-

duction there will be little if any lodgment of the material carried out by the cleaning and irrigating fluid so that the cleaning and irrigation will take place in a simple, efficient and rapid manner. Furthermore, introduction of the pipe 21 can take place continuously while the exit of fluid through pipe 19 is going on, thus providing a continuous circulation of fresh cleaning fluid.

10 What I claim is:

A colonic irrigating device which comprises a tube of substantial diameter adapted

to be introduced, means for facilitating the introduction of the tube, means for withdrawing the facilitating means after introduction, a cap to be disposed over the outer end of the tube after introduction, said cap having an outlet pipe of substantial size and an inlet pipe mounted in said cap and extending through and beyond the other end of the tube for the purpose of introducing fluid into the colon. 15 20

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