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COLONIC MOBILE UNIT

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The invention is a complete colonic irrigating unit which is mobile, and readily adaptable for injecting a saponified oil or other solution into the colon tube and controlling and permitting complete discharge of the same, and also for readily injecting and permitting the discharge of cleaning and medicating solutions through a common applicator without removing the same.

The object of the invention is to provide a complete mobile unit which permits the entry and discharge of a plurality of solutions into the colon tube without irritating the patient by changing connections or applicators in the apparatus.

Another object of the invention is to provide a complete colon irrigating device in which the main colon tube is provided with a glass window and also a metallic connecting sleeve to facilitate the removal and replacing of the colon tube.

A still further object of the invention is to provide a colon irrigating device with a combination valve member for controlling the entry and discharge and which also has a cross passage to permit the discharge from both the colon tube and the applicator around the said tube through the same discharge pipe.

And a still further object of the invention is to provide a mobile colon irrigating apparatus which is of a simple and economical construction.

With these ends in view the invention embodies a stand having a large main container in combination with two smaller containers, a triple valve member connected by tubes to each of the said containers and connecting the said tubes to a common tube, another valve member connected to the opposite end of the said common tube and having a straight passage with a colon tube connected to the opposite end and also another straight passage with one end connected to an applicator on the said colon tube by a tube, and the other connected by a tube to a discharge container on the base of the said stand, and said latter valve member also having a cross passage with a valve therein for permitting discharge from the colon tube to the said discharge container. The common tube connecting the two valve members is provided with a bulb for readily exhausting air that may leak into the said tubes. The tubes connecting the said latter valve member to the colon tube and applicator are provided with suitable connections and windows.

Other features and advantages of the invention will appear from the following description taken in connection with the drawings, wherein:

Figure 1 is a view showing the general assembly with the length of the tubes reduced and turned so that they may be illustrated more clearly.

Figure 2 is a detail showing the triple valve member with the cross connection.

Figure 3 is a detail showing the obturator.

Figure 4 is a view showing a straight applicator for adults.

Figure 5 is a view showing a dilated applicator.

Figure 6 is a view showing a small applicator which is used for children.

In the drawings the device is shown as it would be made wherein numeral 1 indicates a stand which is made with a base 2 having outstanding arms 3 which casters 4 at the outer ends. A vertical rod 5 is rigidly attached to the rear of the base at the point 6 and at the upper end of the rod is a frame 7 that supports a large percolator 8 and two smaller percolators 9 and 10. A small arm 11 may also extend upward from the upper end of the rod 5 and downward into the percolator 8 to support a thermometer 12 as shown.

At the lower end of the percolator 8 is a nipple 13 with a tube 14 attached to it by a connection 15 and the lower end of the tube 14 is provided with a valve 16 and connected to a member 17 as shown. It will be noted that the member 17 has three inlet
connections and one outlet so that material from the inlet connections will pass out of the same outlet connection. One of the inlet connections is connected by a tube 18 to the percolator 9 and is provided with a valve 20 and another of the inlet connections is connected by a tube 21 to the percolator 10 and this connection is also provided with a valve which is indicated by the numeral 32.

The outlet connection of the member 17 is connected by a tube 23 to the valve member 24 and this tube is provided with a bulb 25 which may be squeezed to exhaust air that may have leaked into the apparatus. It will be noted that with one of the valves 16, 20 or 22 open and the valves in the member 24 closed, any fluid in the bulb 25 will pass upward and out through the percolators as the bulb is squeezed.

The valve member 24 as shown in Figure 2 is formed with a rectangular shaped block with two parallel passages 26 and 27 and a cross passage 28, and each of the passages are provided with valves as indicated by the numerals 29, 30 and 31. At the ends of each of the passages 26 and 27 are nipples as indicated by the numeral 32 to which tubes may readily be attached. In the arrangement as shown the tube 23 is connected to the nipple 32 at one end of the passage 26 and another tube 33 connected to the opposite end so that the solution from the percolators may pass directly through the valve member with the valve 29 open as shown. The tube 33 is provided with a glass tube 34 forming a window through which the fluid may be examined and also a metallic tube 35 so that the end of the colon tube 36 may readily be removed and replaced from the end thereof. The colon tube 36 will extend straight through the applicator as indicated by the numeral 37 and the opposite end will be closed as shown at the point 38 and provided with openings 39 and 40 adjacent the end thereof.

One end of the passage 27 is connected by a tube 41 to a discharge container 42 which is located on the base as shown in Figure 1 and the opposite end of this passage is connected by a tube 43 also having a glass tube 44 forming a window therein, to a nipple 45 at the base 46 of the applicator 37. It will be observed that with the valve 30 open the discharge from the applicator may pass straight through the member 24. The cross passage 29 is provided to permit discharge through the colon tube as well as through the applicator, as it will be observed that with the valve 31 open and the valve 29 closed the tubes 33 and 36 may convey a discharge from the end of the colon tube through the valve member and into the discharge container 42.

The applicator is formed with a base 37 which has a packing gland 47 through which the colon tube 36 passes. The base is also provided with an enlarged portion 48 having pins 49 on the outer surface thereof, and tubes as shown in Figures 4, 5 and 6 may be attached to this enlarged portion and held by the pins. Each of the tubes is provided with a nut 50 adaptable to slide over the portion 48, and in the sides thereof are slots 51 which may be placed over the pins 49 so that as the tubes are turned the pins will hold them in place. The tube shown in Figure 4 and indicated by the numeral 52 is ordinarily used, especially for adults and the tube shown in Figure 6 and indicated by the numeral 53 is used for children. The dilated tube shown in Figure 5 and indicated by the numeral 54 is used to hold the hemorrhoids in place.

It will be understood that changes may be made in the construction without departing from the spirit of the invention. One of which changes may be in the general design or arrangement, another may be in the use of valves of a different type or in their arrangement, another may be in the use of different connections in the tubes, and still another may be in the use of different applicators or other means for attaching them to the tubes.

The construction will be readily understood from the foregoing description. To use the device it may be assembled as shown and a solution of saponified oil or a saturated sodium solution or any other suitable solution may be placed in the percolator 8, plain warm water placed in the percolator 9 and a suitable medicating solution placed in the percolator 10. It is understood however that any other suitable solutions or combinations of solutions may be used. It is understood that in use the length of the tubes between the various devices are comparatively longer than shown in the drawing so that the applicator can be entirely handled by the operator. In use the tubes are opened by the obturator as shown in Figure 3 and indicated by the numeral 55 and then the applicator is inserted in the rectum and the colon tube 36 forced through the applicator and into the colon tube of the patient. The valves 30 and 31 in the member 24 are then closed and the valve 29 opened and the valves 29 and 22 closed and the valve 16 opened so that some of the solution in the large percolator 8 may pass into the patient. When a sufficient amount of the solution has passed into the patient the valves 16 and 29 are closed and when the patient has held the solution a sufficient time the valve 30 may be opened to permit the discharge of the solution through the applicator and if desired the valve 31 may also be opened to permit the discharge through the colon tube. After this opera-
tion has taken place the valves 30 and 31 may be closed and the valves 29 and 20 opened to permit water to pass into the patient which may be discharged in a manner similar to that described for the former solution and then the medicator from the container 10 may be used by opening the valves 29 and 22 which may also be discharged in a similar manner. It will therefore be observed that a main solution may be used and discharged and other solutions used in the same manner without disconnecting any of the parts of the apparatus or removing the applicator so that the entire operation may be performed without irritating the patient and with the least possible discomfort. The mobility of the unit makes it possible to readily move it to any desired position without moving the patient. The advantages of this complete mobile irrigating unit should therefore be very apparent.

Having thus fully described the invention, What I claim as new and desire to secure by Letters Patent is:

1. In an irrigating unit of the class described, a main container, a plurality of auxiliary containers, suitable connections from the said containers to a common tube, valves in the said connections, a valve member attached to the common tube, said valve member having two parallel passages and a cross passage with valves in the parallel and cross passages, a colon tube connected to the opposite end of the passage to which the said common tube is attached, said colon tube having a glass tube forming a window therein, a metallic tube forming a connection therewith, and openings in the sides adjacent the end thereof, an applicator on the said colon tube, another tube with a glass tube forming a window therein, and a discharge container into which the said latter tube passes.

2. In an irrigating unit of the class described, a main container, a plurality of auxiliary containers, suitable connections from the said containers to a common tube, valves in the said connections, a valve member attached to the common tube, said valve member being adaptable to permit fluids to pass therethrough in both directions at the same time and also to permit the fluid in one part thereof to pass out with the fluid in the other part thereof, a colon tube connected to the opposite end of the passage to which the said common tube is attached, said colon tube having a glass tube forming a window therein, a metallic tube forming a connection therewith, and openings in the sides adjacent the end thereof, an applicator on the said colon tube, another tube with a glass tube forming a window therein, and a discharge container into which the said latter tube passes.

3. In an irrigating unit of the class described, a plurality of containers, suitable connections from the said containers to a common tube, valves in the said connections, a valve member attached to the common tube, said valve member having two parallel passages and a cross passage with valves in the parallel and cross passages, a colon tube connected to the opposite end of the passage to which the said common tube is attached, an applicator on the said colon tube, another tube connecting the base of the said applicator to one part of the said valve member, the other part of the said valve member having a tube leading therefrom, and a discharge container into which the said latter tube passes.

4. In an irrigating unit of the class described, a plurality of containers, suitable connections from the said containers to a common tube, means for regulating the flow in the said connections, a valve member attached to the common tube, said valve member being adaptable to permit fluids to pass therethrough in both directions at the same time and also to permit the fluid in one part thereof to pass out with the fluid in the other part thereof, a colon tube connected to the opposite end of the passage to which the said common tube is attached, an applicator on the said colon tube, another tube connecting the base of the said applicator to one part of the said valve member, the other part of the said valve member having a tube leading therefrom, and a discharge container into which the said latter tube passes.

In testimony whereof I affix my signature.

ROBERT WILLIAM MYRES.