

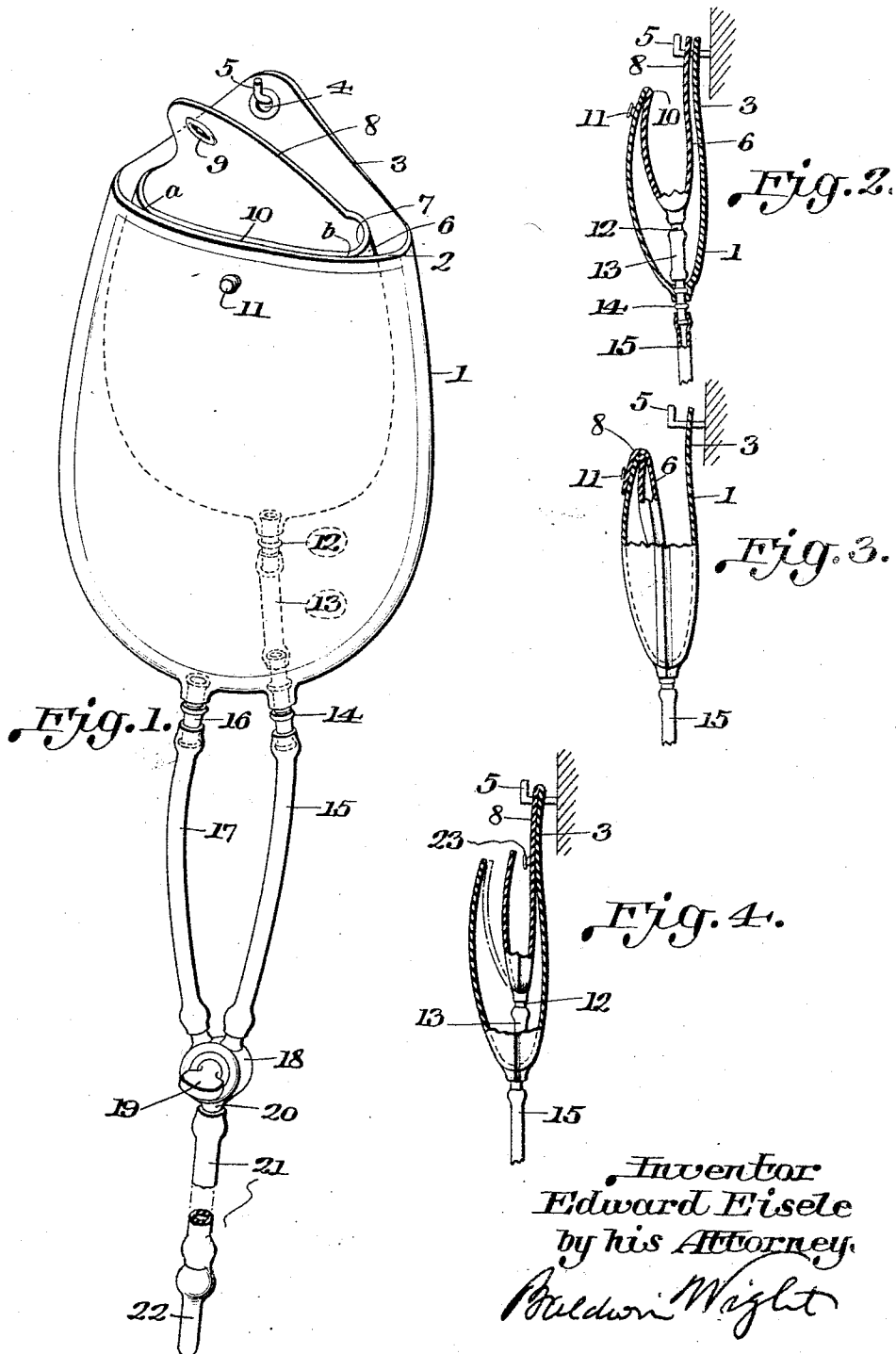
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FOUNTAIN SYRINGE

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UNITED STATES PATENT OFFICE.

EDWARD EISELE, OF HOT SPRINGS, ARKANSAS.

FOUNTAIN SYRINGE.

Application filed October 20, 1924. Serial No. 744,663.

To all whom it may concern:

Be it known that I, EDWARD EISELE, a citizen of the United States, and resident of Hot Springs, in the county of Garland and State of Arkansas, have invented certain new and useful Improvements in Fountain Syringes, of which the following is a specification.

In administering a douche by means of a fountain syringe, it is frequently desirable in medical treatment to follow the use of one solution by another. If the usual fountain syringe is employed, it is necessary after using one solution to discontinue the douche, fill the syringe with the other solution and continue the treatment.

An object of my invention is to avoid this, and to provide a fountain syringe wherein two distinct solutions may be contained and either employed as desired, so that the use of one solution may be followed by the use of another with no more trouble than the turning of a valve or switch.

Another object is to provide a syringe of this character wherein one of the containers can be used alone as desired without interference from the other container.

Further objects will be apparent from the following detailed description and the appended claims.

In the drawings:

Figure 1 is a side elevation of the complete device.

Figure 2 is a vertical section showing both containers in use.

Figure 3 is a similar vertical section showing the smaller container in inoperative position.

Figure 4 is a similar section of a modified form of the device.

The main container 1 is made of rubber or other material such as is usual in the manufacture of fountain syringes. It has an opening 2 at the upper end and an extension 3 provided with a reinforced opening 4 by which the syringe may be suspended from the usual hook 5. The smaller container 6 is preferably designed to hold about half as much as the larger container, and it fits within the larger, having a top opening 7 and an upward extension 8 provided with a reinforced opening 9 by which it may be suspended from the hook 5 so that its weight when filled will not come on the larger container.

The upper anterior edges of the two con-

tainers are preferably vulcanized together at 10 from the points *a* to *b*. The larger container is also provided on the outside near the top with a button 11 with which the opening 9 may engage when the inner container is not in use as shown in Figure 3.

The smaller and inner container 6 is provided with a bottom outlet opening in which fits a hard rubber connection 12 to which is attached one end of the usual rubber tubing 13, the other end of which connects to a hard rubber connection 14 having a fluid tight fit in an opening in the bottom of the outer container 1. To this connection is attached one end of another rubber tube 15. A hard rubber fitting or connection 16 fits in an opening in the bottom of the larger container and has attached thereto a rubber tube 17. Both of the tubes 15 and 17 are connected to a hard rubber of similar fitting 18 having a two-way valve 19 therein and also having an outlet 20 connected to a rubber tube 21 of desired length. The other end of this tube is detachably connected to any suitable form of tip 22 which will vary according to the use for which the syringe is employed.

When both containers are in use, the parts will occupy the position shown in Figure 2, each container being supported from the hook 5. When it is desired to use only the large container and leave the smaller one empty, the flap 8 is unhooked from the hook 5 and folded outward until the opening 9 engages the button 11 when the parts have the position shown in Figure 3.

When both containers are in use, the desired solution is selected by means of the valve 19 which can be turned to shut off both solutions or to permit the passage of either. Also, if it is desired, this valve may be constructed so that in one position it will permit the passage of a portion of each solution, in case it is desired to mix certain medicinal solutions at the moment of use.

In the modification disclosed in Figure 4, the containers may be entirely separate, or they may be vulcanized together along the flap portions 3 and 8 and both are suspended from the hook 5. The anterior portions are unconnected and when both containers are in use, the anterior portion of the inner container assumes the dotted line position. The inner container is pro-

vided with a button 23 and its anterior portion with an opening (not shown) to fit over said button when the inner container is not in use. In other respects this form is the same as that disclosed in Figures 1, 2 and 3.

Various changes in size, form, material and other details may be made without in any way departing from the spirit of the invention, which is to be regarded as limited only by the scope of the appended claims.

In my application for Patent Ser. No. 30,577, filed May 15, 1925, which is a division of this application, I have claimed that form of my invention shown in Figure 4 of the drawings.

I claim as my invention:

1. A fountain syringe comprising two flexible containers one within the other and fastened together at their upper anterior borders only, and means for permitting the flow of fluid from either container as desired.

2. A fountain syringe comprising two containers, one within the other and fas-

tened together at their upper anterior borders, each container having a flap provided with means for engaging a suspension device, and means for permitting the flow of fluid from either container as desired.

3. A fountain syringe comprising two containers, one within the other and fastened together at their upper anterior borders, each container having a flap provided with means for engaging a suspension device, and the outer container having a device for engagement by said means on the inner container when the latter is not in use.

4. A fountain syringe comprising two containers, one within the other, a flap on each container provided with means for engaging a suspension device, and a button on the outside of the outer container to be engaged by the means on the flap of the inner container when the latter is not in use.

In testimony whereof I have hereunto subscribed my name.

EDWARD EISELE.