March 5, 1929. H. A. BAUMAN ET AL 1,703,859

TUBE SUPPORTER FOR FOUNTAIN SYRINGES

Filed Oct. 9, 1926

Fig. 1.

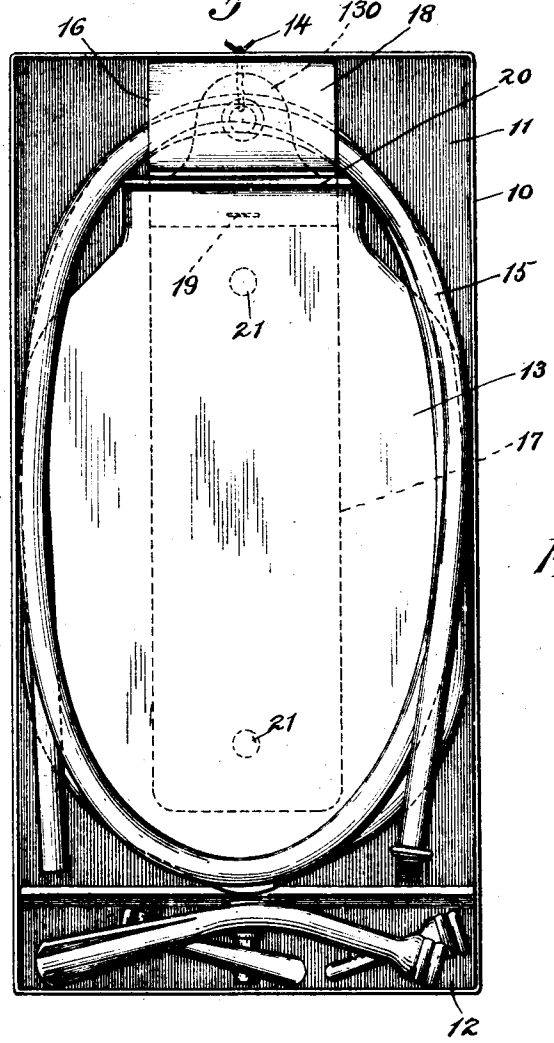


Fig. 2.

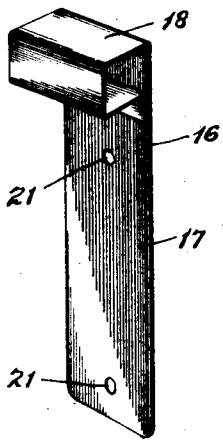
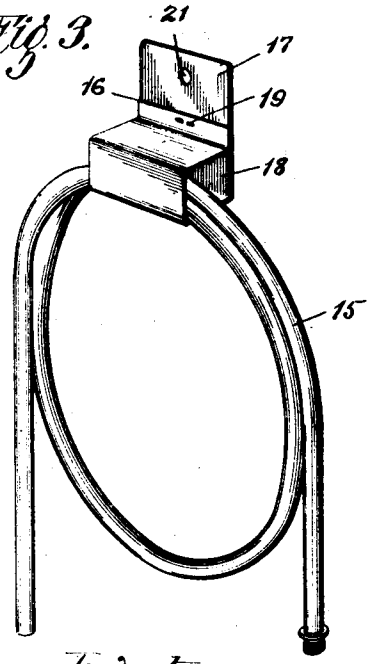


Fig. 3.



Inventors
Harry A. Bauman
John U. Higgins
By Perrin, Eaton & Avery, Attys.

Patented Mar. 5, 1929. 1,703,859

UNITED STATES PATENT OFFICE.

HARRY A. BAUMAN AND JOHN W. HIGGINS, OF AKRON, OHIO, ASSIGNORS TO THE B. F. GOODRICH COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

TUBE SUPPORTER FOR FOUNTAIN SYRINGES.

Application filed October 9, 1926. Serial No. 140,520.

This invention relates to fountain syringes or water bottles including a rubber bag and a rubber tube for connecting said bag with a suitable nozzle.

The object of the invention is to support the tube in a definite relation to the bag while they are stored or displayed in their box or container, and in such manner that the tube may be readily removed for use. The tube supporter may further be made to serve as a separate hanger for the tube.

Of the accompanying drawings, Fig. 1 is a plan view showing a fountain syringe, tube and nozzles in their box, together with a tube supporter constructed and arranged according to our invention.

Fig. 2 is a perspective view of the tube supporter.

Fig. 3 is a perspective view showing a modified supporter used as a hanger for the tube.

In the drawings, 10 is the ordinary box-body for fountain syringe parts, having a large compartment 11 for the water bag and tube and a small compartment 12 for the nozzles. 13 is the rubber syringe bag having a tab 130 at its mouth end which may be tied to the bottom and one end wall of the box by a string 14. 15 is the rubber tube coiled over the bag.

It has been considerable of a problem in the past to anchor the tube in the box, neatly and in a definite relation to the bag, so that the tube would not become displaced in handling the package a minimum of space will be occupied and the goods could be attractively displayed. This problem is effectively solved in our present invention by the provision of the tube supporter of which we show a preferred form in the drawings.

This tube supporter 16 may conveniently be made from a strip of card-board one end of which is extended in a plate-like bag-entering portion 17 and the other end of which is bent into rectangular, tubular form to constitute a holder 18 for receiving the loops of the rubber tube 15, its extremity lying against the plate-like portion and being secured thereto by a staple 19. Because of this construction of the holder 18, it will be obvious that the tubular portion of cardboard is collapsible along the edges of the rectangle so as to occupy but little space when not being used for supporting syringe tubing.

In assembling the parts, the tube 15 is looped through the holder 18 and the plate-like portion 17, which is nearly the width of the mouth 20 of the bag, is passed through said mouth into the interior of the bag, so that the holder 18 lies immediately above and adjacent to the mouth, over the tab 130, and substantially fills the space between said mouth and the upper end wall of the bag. In this way the rubber tube is effectively positioned or held in place in horizontal directions and in a downward vertical direction by the bag and in an upward vertical direction by the box, and the goods may be attractively displayed in the open box. To remove the supporter, it is merely necessary to slip it out of the bag and the tube may then be readily disengaged from the holder 18.

In Figs. 1 and 2 the length of the bag-entering portion 17 of the tube-supporter is such that said portion extends nearly to the bottom of the bag, this arrangement being preferred as tending best to maintain the supporter properly alined and prevent accidental displacement, and to hold the sides of the bag apart, but said bag-entering portion 17 may be considerably shortened as shown in the modification of Fig. 3.

In addition to its tube-supporting function in the box, the supporter 16 may also be employed by the user as a separate tube hanger, and for this purpose the longer form of Figs. 1 and 2 is shown provided with apertures 21 near each end of the bag-entering portion, and the shorter form of Fig. 3 is shown with a single such aperture, whereby the supporter may be suspended in an inverted position upon a projecting nail or hook and act as a hanger for the rubber tube 15 after the manner indicated in Fig. 3.

Other modifications in the described structure and arrangement may be made within the scope of our claims.

We claim:

1. A supporter for fountain-syringe tubes comprising a plate-like portion adapted to enter the syringe bag and a tubular tube-holding portion at one end thereoef.

2. A supporter for fountain-syringe tubes comprising a tube-holding portion, and a bag-entering portion formed to engage a nail or hook and permit the supporter to act in an inverted position as a tube hanger.

3. A supporter for fountain-syringe tubes

comprising a strip of material a portion of which is extended as a plate-like bag-entering member and another portion of which is bent into tubular form at the end of said member to act as a tube-holder.

4. A supporter for fountain-syringe bags comprising a strip of card-board bent into tubular form at one end to receive the syringe-tube, the remainder being extended as a plate-like bag-entering portion and formed with a perforation by which to hang it on a nail or hook.

5. A combined display device and container for a fountain syringe comprising a container having side walls and a tube supporting member adapted to have an end thereof extending for a substantial distance into the bag of a fountain syringe positioned in the container and to have the opposite end resting adjacent one of the container side walls, the last mentioned end being formed with a tubular tube-holding portion.

6. A combined display device and container for a fountain syringe assembly which comprises a container formed with side walls, and a tube supporter provided with an elongated tongue adapted to have a portion thereof inserted within the bag of a fountain syringe, and also provided with a tubular tube-positioning portion, the said tube supporter being adapted to be retained in place within the container by coaction of the said tongue and tube-positioning portion respectively with the side walls of a syringe positioned in the latter, and with the side wall of the container.

In witness whereof we have hereunto set our hands this 5th day of October, 1926.

HARRY A. BAUMAN.
JOHN W. HIGGINS.