L. E. PEASE.

FOUNTAIN SYRINGE.

APPLICATION FILED DEC. 18, 1913.

1,123,361.

Patented Jan. 5, 1915.

Fig. 1.

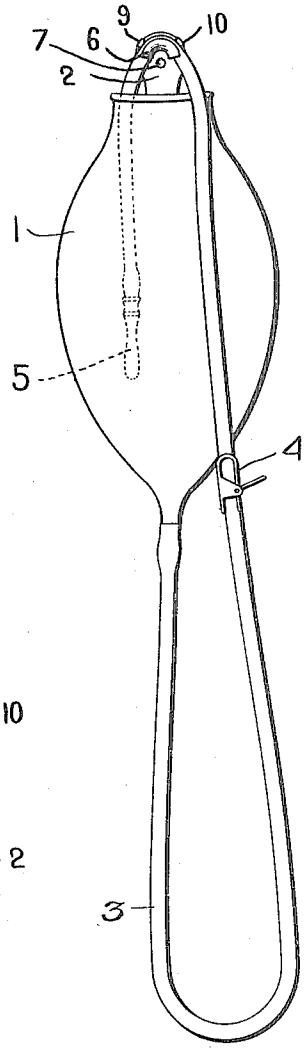


Fig. 2.

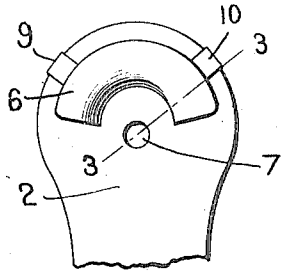


Fig. 3.

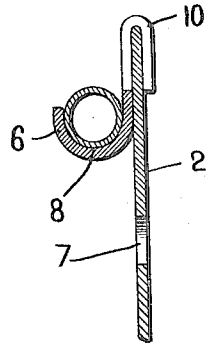
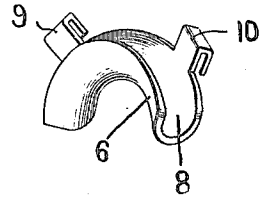


Fig. 4.



Witnesses.

J. Morrill Fuller

William E. Gagen.

Inventor.

Lewis E. Pease,

by Heard Smith & Tennant.

Atty's.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LEWIS E. PEASE, OF TUFTS COLLEGE, MASSACHUSETTS.

FOUNTAIN-SYRINGE.

1,123,361. Specification of Letters Patent. Patented Jan. 5, 1915.

Application filed December 18, 1913. Serial No. 807,542.

To all whom it may concern:

Be it known that I, LEWIS E. PEASE, a citizen of the United States, residing at Tufts College, county of Middlesex, State of Massachusetts, have invented an Improvement in Fountain-Syringes, of which the following description, in connection with the accompanying drawing, is a specification, like characters on the drawing representing like parts.

This invention relates to fountain syringes and has for an object to provide a fountain syringe with a novel tube support on which the eduction tube can be sustained in a manner to prevent it from becoming broken by being sharply bent.

Another object of this invention is to provide a novel tube support which may be applied to the tab of a fountain syringe as commonly manufactured.

Fountain syringes are commonly hung on a hook or nail and the eduction tube when not in use is hung over the hook or nail. The tube is thus given a sharp bend which when repeatedly done soon breaks or cracks the tube at this point. My invention provides a novel tube support of a shape to support the tube without forming a sharp bend therein, thereby obviating such cracking of the tube.

In the drawings in which I have illustrated my invention; Figure 1 is a view of a fountain syringe embodying my invention and showing the manner in which the tube is supported by the tube support; Fig. 2 is an enlarged detail view of the tab with my improved tube support secured thereto; Fig. 3 is a sectional view on the line 3—3, Fig. 2, and Fig. 4 is a perspective view of the tube support.

1 designates the bag or water-containing receptacle of the fountain syringe having the usual supporting tab 2, and 3 designates the eduction tube provided with a shutoff 4 and a removable tip 5. These parts are of common and usual construction and form no part of my invention.

In accordance with my invention I provide a tube support 6 which may be applied to the supporting tab of any fountain syringe. This support is of a generally arcuate shape longitudinally, preferably conforming somewhat closely to the shape of the edge of the tab as illustrated in Fig. 2 in order to present a neat and workmanlike appearance. I have illustrated this support as positioned above the hole 7 in tab as will be seen in Fig. 2 so that the support will not in any manner interfere with the nail upon which the syringe is supported. The upper curved surface of the support is provided with a groove 8 to receive the eduction tube when not in use, the support thus being of a general U shape in cross section as shown in Fig. 3. My improved support is preferably attached to the supporting tab of a fountain syringe by means of the hook-shaped attaching fingers 9 and 10 embracing the edge of the tab. In the form shown these fingers project from one edge of the support as shown most clearly in Fig. 3. These fingers may be made of such size that they will fit tightly upon the tab and if desired may be closed by a blow or pressure when the support is affixed to the tab. It will be noted that the fingers 9 and 10 have a radial arrangement and are spaced a considerable distance apart. The advantage of this construction is that when this device is applied to the tab 2, the spaced fingers embrace the sides of the tab and thus securely hold the tube support 6 in position.

Any suitable material may be employed in the manufacture of my improved support such as metal, hard rubber, composition, or similar material and the usual processes such as casting, molding, etc. may be employed. When made of metal it may be conveniently stamped and bent to the desired form between dies in well known manner, and one of the advantages of the particular form illustrated is that it may be readily shaped from a sheet metal blank.

I have thus provided a support for the purposes indicated which may be made separately and applied to the tabs of fountain syringes. The device may either be sold with syringes of usual construction or may be sold separately to be attached to syringes already in use. It may also be readily removed if occasion requires. One advantage of the support illustrated is that when the tube is resting on the support, the end of the tube can be placed within the bag thus avoiding all danger of dripping.

While I have illustrated my invention in a preferred form, I do not wish to be limited to the constructional details shown.

Having fully described my invention,

what I claim as new, and desire to secure by Letters Patent is:

1. In a fountain syringe, the combination with a bag and an eduction tube connected thereto, said bag having a supporting tab at its upper end provided with an aperture by which it is supported, of a tube support on said tab above said aperture and having hooked-shaped attaching fingers embracing the edge of the tab, said tube support being of an arcuate shape longitudinally and upon its upper face presenting a groove to receive the eduction tube and support it in a long curve thereby preventing a short bend and consequent breaking of the tube where supported.

2. As an article of manufacture a tube support adapted to be secured to the tab of a fountain syringe and consisting of an arcuate grooved member U-shaped in transverse section having a plurality of hook-shaped attaching fingers at one edge adapted to fit over the supporting tab of a fountain syringe, said hook shaped fingers being radially arranged and widely separated from each other so as to embrace the tab somewhat at the sides and have a firm bearing on the rounded upper edge of the tab.

3. As an article of manufacture, a tube support adapted to be secured to the tab of a fountain syringe consisting of an arcuate grooved member U-shaped in transverse section having a plurality of hooked-shaped attaching fingers at one edge adapted to fit over the supporting tab of a fountain syringe bag.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

LEWIS E. PEASE.

Witnesses:
LOUIS C. SMITH,
THOMAS J. DRUMMOND.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."