(No Model.)

J. LALONDE.

SYRINGE.

No. 513,238. Patented Jan. 23, 1894.

Fig. 1.

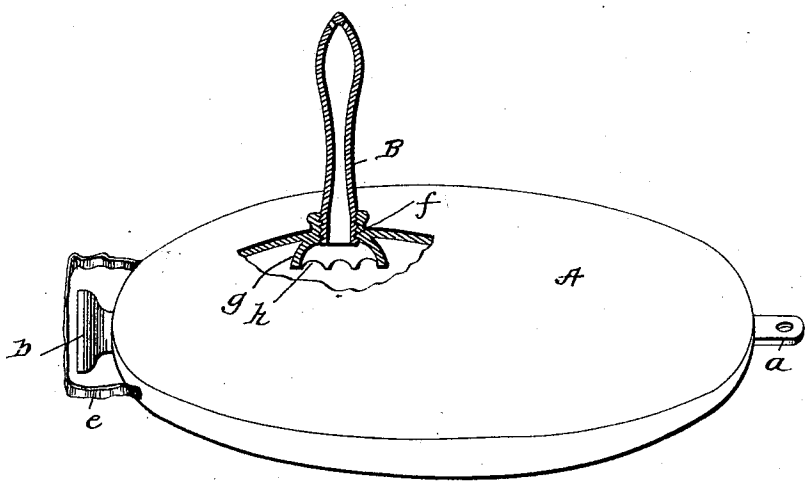


Fig. 2.

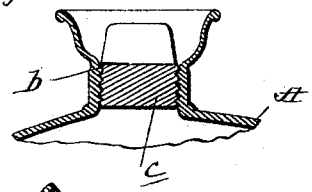
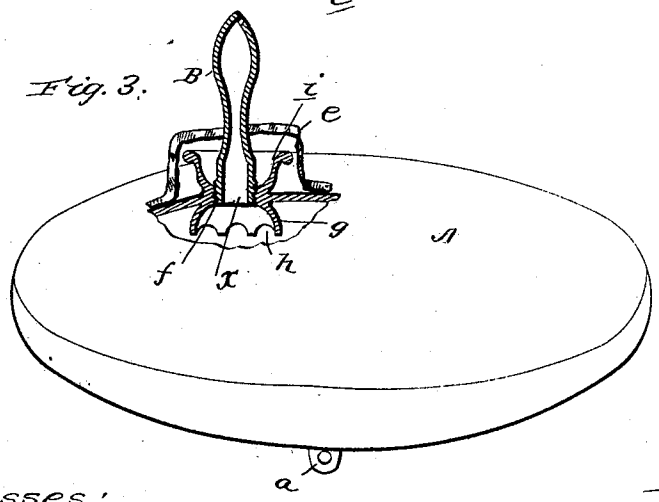


Fig. 3.



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JOSEPH LALONDE, OF WINNIPEG, CANADA.

SYRINGE.

SPECIFICATION forming part of Letters Patent No. 513,238, dated January 23, 1894.

Application filed February 23, 1893. Serial No. 463,431. (No model.) Patented in Canada August 25, 1892, No. 40,016.

To all whom it may concern:

Be it known that I, JOSEPH LALONDE, a subject of the Queen of Great Britain, residing at Winnipeg, in the county of Selkirk and Province of Manitoba, Canada, have invented certain new and useful Improvements in Syringes, (for which I have obtained a patent in Canada, No. 40,016, dated August 25, 1892;) and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to an improvement in that class of syringes, in which a bag is employed for holding the liquid to be injected, and the novelty will be fully understood.

Other objects and advantages of the invention will appear from the following description and claims when taken in connection with the annexed drawings, in which—

Figure 1, is a perspective view partly in section of my improved syringe. Fig. 2, is a detail sectional view illustrating the filling aperture or mouth and the plug for closing the same, and Fig. 3, is a perspective view partly in section illustrating a modification.

In carrying out my invention I take a bag A, which may be of the form usually employed and made from rubber or other suitable water-proof material. This bag is provided at one end or edge with a perforated tab *a*, by which it may be suspended from a nail or the like, when not in use to allow it to drain of its contents. The bag is furthermore provided at an opposite point with a filling aperture *b*, which is internally threaded as shown to receive a screw plug *c*, and said aperture is also provided with a funnel shaped or flaring mouth to facilitate the filling or pouring in of the liquid. And the bag may also have a handle or strap *e*, at the filling aperture. The bag, as is customary in the manufacture, is made so that the side walls will collapse as the contents are discharged and will inflate when the bag has been filled. I have shown the bag as of a general elliptical form in outline, although such form may be varied according to the fancy or dictation of the manufacturer. In one of the side walls and preferably in the center thereof is an aperture *f*, which is screw tapped as shown for the attachment of an injection tube or spray nozzle B, which is also threaded on one end to engage the threads in the aperture *f*. Depending from this aperture and surrounding the same within the bag is a flange *g*, which has its edge notched or recessed as shown at *h*, so that when the most of the water or liquid has been forced out and the walls of the bag collapse, the injection will not be interrupted by reason of the aperture closing but the liquid will pass from the bag through said recesses and out through the tube B. It is obvious that holes may be formed in the lower portion of the tube instead of notches although notches are more effective and desirable for the purposes.

In some cases, as shown in Fig. 3, a funnel or flaring mouth *i*, may be formed around the eduction aperture *x*, in the side wall of the bag so that the bag may be filled through this point and make said aperture both an induction and eduction passage. When thus provided the filling aperture *b*, at one end and also the perforated tab *a*, at the opposite end, may be dispensed with and a similar tab K, placed on the outer opposite side wall as shown in Fig. 3. A strap may also be provided at the filling aperture as a means of holding the bag.

By the construction described it will be seen that when the bag has been filled and the device is to be used as a rectum syringe (which is its main purpose) the injection tube or nozzle is screwed into the aperture in the side wall as shown. The person then places the tube in the anus when by the weight of the body, the liquid will be injected. The force of the injection can of course be regulated according to the downward pressure or weight of the body and can be checked by simply relieving the pressure upon the bag.

When warm water or liquid is used and the bag becomes too warm to the touch of the user, a cushion or pad having an aperture for the passage of the injection tube might be placed on the bag as a seat.

As before described, the device is mainly designed as a rectum syringe but without any material alteration in its construction it may be conveniently used for the nose, ear, or other openings in the body, or it may be used as a sprayer and means of taking a shower

bath by providing a suitable flexible tube with a rose or sprayer. When used as a nasal douche or for other similar purposes, the nozzle B, would of course be omitted and a tube having a suitable nozzle employed.

Having described my invention, what I claim is—

1. A syringe comprising a compressible water bag or holder adapted to seat the user and having an aperture in one of its side walls surrounded on its inner side by a flange having notches or the like in its edge, substantially as specified.

2. A syringe comprising a compressible water bag or holder having a screw tapped aperture in one of its sides adapted to receive an injection tube, said aperture having a flaring or funnel shaped mouth, and an inwardly directed flange with a notched or recessed edge, substantially as specified.

3. As an improved article of manufacture, a syringe comprising a compressible water bag or holder having a screw tapped aperture in one side provided with an inwardly depending notched or recessed flange, a suspending tab on the opposite side and an injection tube or nozzle having one end threaded to screw into said aperture, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

JOS. LALONDE.

Witnesses:
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