Oct. 4, 1949. R. F. HARDESTY 2,483,636

FOUNTAIN SYRINGE

Filed March 28, 1946

Fig. 1.

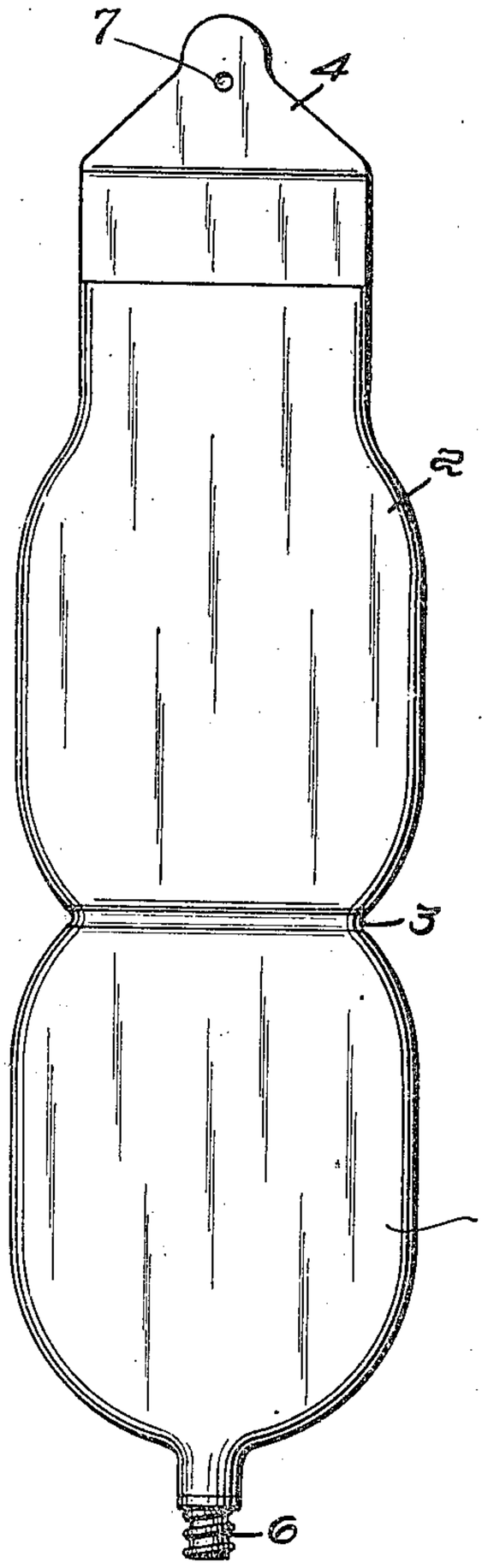


Fig. 2.

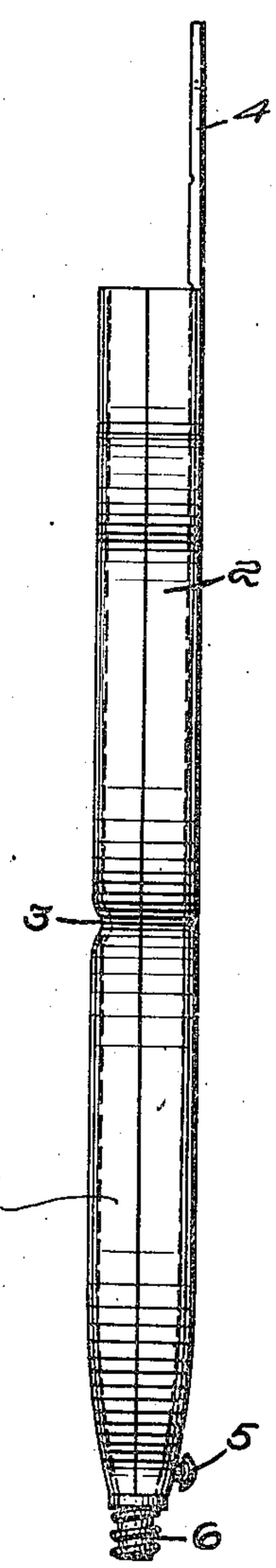


Fig. 3.

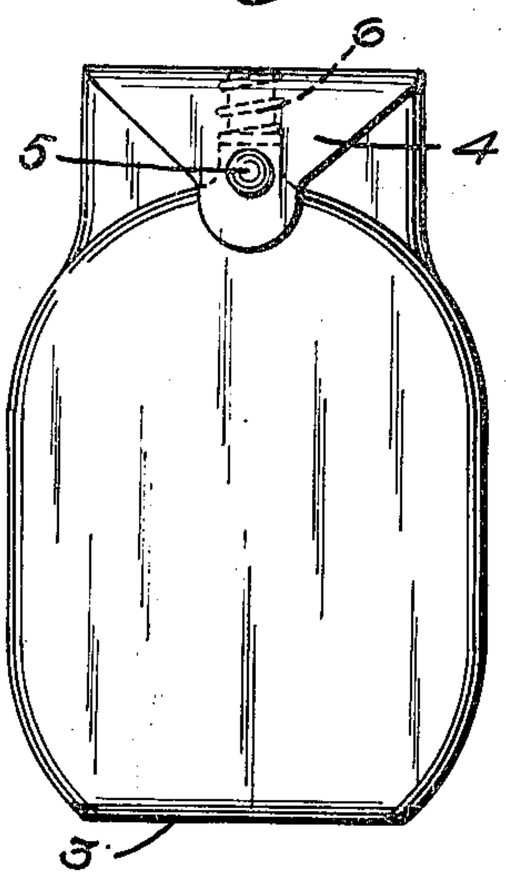
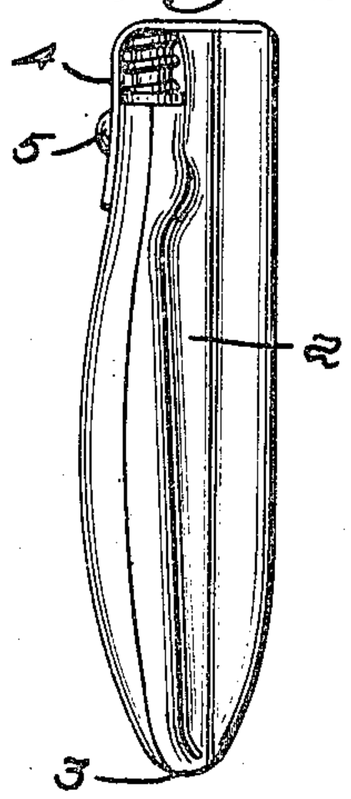


Fig. 4.



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2,483,636

FOUNTAIN SYRINGE

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2 Claims. (Cl. 128—227)

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This invention relates to syringes of the so-called "fountain" type, and it aims to devise a structure of this character which can be so folded, when not in use, as to dispose it in an exceptionally compact form, occupying little space.

The nature of the invention will be readily understood from the following description when read in connection with the accompanying drawings, and the novel features will be particularly pointed out in the appended claims.

In the drawings,

Fig. 1 is a front elevation of a syringe bag embodying features of this invention and showing it in its operative condition;

Fig. 2 is a side elevation of the bag shown in Fig. 1;

Fig. 3 is a front elevation showing the bag folded and fastened in its closed or folded condition; and

Fig. 4 is an edge view of the bag as shown in Fig. 3.

Referring first to Figs. 1 and 2, the construction there shown comprises an elongated bag which may be made by any suitable or usual method of making syringe bags of rubber or equivalent materials, commonly referred to as "rubber." It includes upper and lower sections 2 and 2', respectively, connected by an intermediate waist portion 3 of somewhat reduced dimensions. In the particular construction shown, a transverse crease has been molded in the outer surface of the front wall of the bag and, if desired, the rubber in this crease may be made of a somewhat different composition so that it will be more flexible than the adjacent portions of said walls, or the rubber may be made somewhat thinner at this crease. In any event, the construction is such that a natural fold-line is provided in the front wall of this waist area so that one section 2 or 2' may be folded over upon the other, bringing these parts into the relationship illustrated in Figs. 3 and 4.

In the particular form shown, the upper end of the section 2 is open to serve as an inlet, and the rear wall of the bag is continued upwardly beyond said inlet to provide a hanger 4 which may be perforated, as shown at 7, or formed in any convenient manner, so that the entire bag can be suspended from a hook engaging a part of the hanger. At its lower end the bag is equipped with the usual screw-threaded nipple 6 for the attachment thereto of the syringe tubing, and it also carries a projecting button or stud 5 which, when the bag is folded, will cooperate with the flap or hanger 4 to fasten it releasably in its folded condition, with the hanger closing said inlet, the button head being small enough to pass through the hole 7. The button may be made integral with the part 2'.

It should be noted that the upper end or

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mouth of the section 2 is made larger than usual and is of such dimensions as to permit the introduction into said upper section of the tubing, clamp, nozzles and, in fact, all of the accessories necessary in using the syringe. These parts may be stored in the upper section 2 when not in use and this fact permits the assembly of all of the parts of the syringe in a compact form and the enclosure of the smaller articles within one section of the syringe bag.

The invention thus provides a fountain syringe which can be manufactured at only slightly greater expense than the ordinary construction but which has the advantage, important to travellers, of being arranged in a very compact form.

Having thus described my invention, what I desire to claim as new is:

1. A rubber syringe bag of a relatively flat elongated form comprising upper and lower sections and an intermediate waist portion connecting said sections together, said waist portion being constructed to provide a fold line in one side wall thereof and extending transversely across the bag to produce a natural tendency for the bag to fold toward one side thereof into a compact form in which one section is superposed longitudinally upon the other, said bag having parts at the opposite end portions thereof cooperating with each other to fasten the bag releasably in its folded condition, the bag having an inlet opening at its top and an outlet at its bottom, and one of said parts for fastening the bag in its folded condition forming a closure for said inlet opening.

2. A rubber syringe bag of a relatively flat elongated form comprising upper and lower sections and an intermediate waist portion connecting said sections together, said waist portion being shaped to facilitate the folding of one of said sections flatwise over upon the other along a substantially fixed transverse fold line, said bag having an inlet opening at its top and a discharge nipple at its bottom, said inlet opening being large enough to provide for the introduction through it of the tubing, clamp and nipples which cooperate with the bag to form a complete fountain syringe assembly, and a flap for closing said inlet opening, said flap also serving as a hanger for suspending the bag.

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