

Dec. 30, 1930.

P. E. FENTON

1,787,364

MEANS FOR MOUNTING RUBBER CONTAINERS IN BOXES

Filed May 10, 1927

Fig. 1.

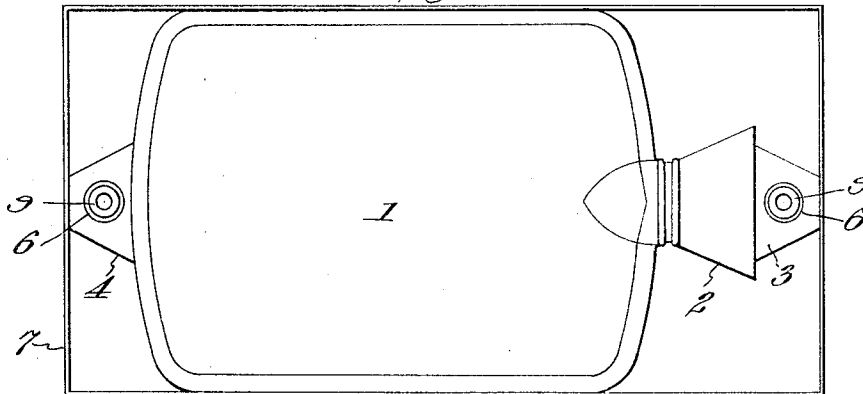


Fig. 2.

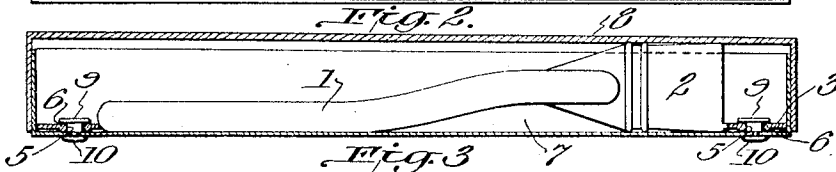


Fig. 3.

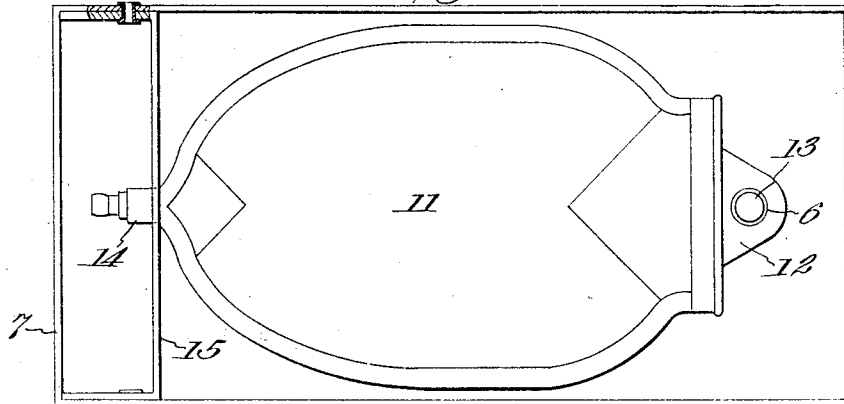


Fig. 4.

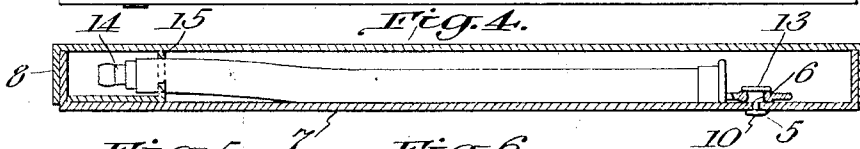
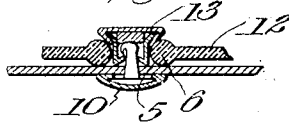


Fig. 5.



Fig. 6.



Inventor

Paul E. Fenton

by

W. H. Finner

Attorney

UNITED STATES PATENT OFFICE

PAUL E. FENTON, OF THOMASTON, CONNECTICUT, ASSIGNOR TO SCOVILL MANUFACTURING COMPANY, OF WATERBURY, CONNECTICUT, A CORPORATION OF CONNECTICUT

MEANS FOR MOUNTING RUBBER CONTAINERS IN BOXES

Application filed May 10, 1927. Serial No. 190,275.

Flexible containers, such as rubber hot water bottles, syringe bags, ice bags and the like, are usually put up for sale in boxes, but owing to their flexible nature they will crumple in handling unless supported in an extended position within the box. It has been customary to tie such containers within their boxes; also to provide a hook or pin in the box adapted to be engaged loosely by the suspending tabs or flaps on the containers, and also by the use of the well-known McGill paper fastener passed through the bottom of the box and through the eye in the tab and then placing a washer over the tab and on the fastener and spreading the limbs of the fastener over the washer.

These expedients do not meet the anti-crumpling requirements and are not readily and economically applicable.

The object of this invention is to remedy the objectionable features of the common expedients, and to provide for holding the container in its box under tension upon fixed retainers or holders on the box, one holder being used where there is only one tab on the container and two holders being used where both ends of the container are supplied with tabs.

The invention consists in applying to the box, permanently and fixedly, an ordinary button, over which the eye in the tab is stretched resiliently, one button being used where the container has only one tab, and a plurality of buttons being used where there are more than one tab, as I will proceed now to explain and finally claim.

In the accompanying drawings illustrating the invention, in the several figures of which like parts are similarly designated. Figure 1 is a top plan view of a hot water bottle having tabs at opposite ends, mounted in a box having holder buttons at opposite ends, the box cover being omitted, and Fig. 2 is a partially sectional side elevation, showing the box and its cover applied thereto, with a hot water

bottle inclosed. Fig. 3 is a top plan view of a syringe bag mounted in a box minus the cover, and Fig. 4 is a partially sectional side elevation thereof with the cover in place. Fig. 5 is a vertical section illustrating the use of one form of tack button, and Fig. 6 is a similar view illustrating the use of another form of tack button, the former being shown as used in Figs. 1 and 2 and the latter in Figs. 3 and 4, it being understood that both forms of button are common and well-known.

Referring to Figs. 1 and 2, the numeral 1 indicates a hot water bottle of well-known construction which has the mouth 2, and the tabs 3 and 4 at opposite ends. As well understood, the tab 3 is for use in suspending the bottle when being filled or when filled or empty, and the tab 4 is for suspending the bottle in an inverted position to empty or drain it. The bottle is made of flexible, elastic material, such as rubber or laminated material, and the tabs are permanent parts of the bottle and are more or less distensible or elastic. Each tab has an eye 5 thickened around its rim so as to reinforce it, as shown at 6 in Figs. 2, 4, 5 and 6.

The box comprises a body 7 and a cover 8. The body has mounted inside of it, near its opposite ends, the holders, shown as buttons 9, arranged to aline with the eyes 5 in the tabs. The buttons comprise a head of larger diameter than the eyes 5, and a shank or hub of reduced diameter engaged by a tack 10 driven through the bottom of the body of the box from the outside inwardly into the button and clenched within its shank or hub, as illustrated in Figs. 5 and 6. These buttons may be set permanently and fixedly in the bottom of the body of the box by suitable and well-known attaching machines in an economical and expeditious manner. Instead of a tack, there may be used an eyelet or rivet to attach the button, all of these fasteners being commonly used to set what the trade commonly designates "tack but-

tons." Fig. 5 shows an open face button and Fig. 6 shows a closed face button, but only in a conventional way and in principle and regardless of details of construction.

5 The tabs being of resilient material their eyes may be stretched or distended sufficiently to be engaged with the buttons, so that the bottle is mounted under more or less tension in the box and free of liability of crumpling and thereby in perfect condition for sales
10 exposure. Moreover, the eyes being resilient it results that after being stretched or distended to pass over the heads of the buttons, they resume normalcy and therefore hold on to the buttons and prevent accidental disen-
15 gagement from them and so secure the container in mounted position.

Referring to Figs. 3, 4 and 6 the container is shown as a syringe bag, 11, having an eyed
20 tab 12 at one end engaging a button 13 fixed in the body of the box as before described. The nozzle or outlet end 14 is supported in a hole in a cross-piece 15 fixed in the box, said nozzle engaging the hole more or less
25 frictionally so as not to escape from the cross-piece accidentally.

The invention is applicable to the mounting in boxes of other articles than those mentioned.

30 Variations in details are permissible within the principle of the invention and the claims following.

What I claim is:—

1. Means for mounting an elastic rubber
35 container in a box, for shipping and display purposes and retaining it therein without liability of crumpling, said container having an elastic tab provided with a resilient eye, said box provided with a button definitely
40 located therein and attached thereto and having a head of larger diameter than said resilient eye, said head projecting within the box, and said resilient-eyed elastic tab capable of being stretched to pass over the head of
45 the button and thereafter resume normalcy and thus engage the button and prevent accidental disengagement therefrom and so secure the container in mounted position in the box, the other end of the container being
50 anchored to the box.

2. Means for mounting a rubber container in a box, for shipping and display purposes, and retaining it therein without liability of crumpling, said container having elastic
55 tabs at opposite ends and provided with resilient eyes, and the box having headed retainers, the heads of which are of larger diameter than said eyes, said retainers permanently and fixedly mounted in the box at its
60 opposite ends and adapted to be engaged by said tabs by stretching said tabs over said headed retainers and thereby hold the container under tension.

3. Means for mounting in a box a rubber
65 water bottle having resilient eyed tabs at its

opposite ends, said box having buttons permanently and rigidly fixed in its bottom at opposite ends, and said bottle tabs being sprung over the buttons and elastically engaged therewith, whereby the bottle is retained extended within the box without liability of crumpling therein and accidental escape therefrom.

In testimony whereof I have hereunto set my hand this 9th day of May, A. D. 1927.

PAUL E. FENTON.

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