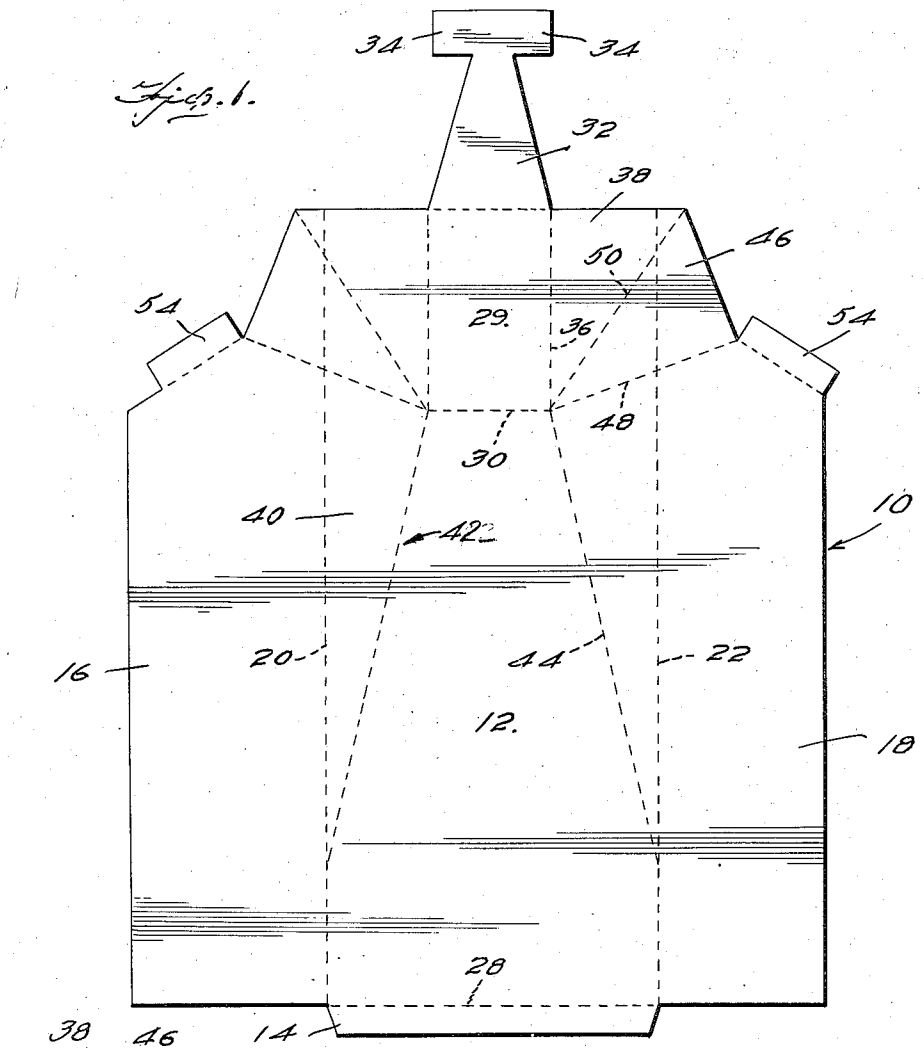
Nov. 6, 1951 W. H. CROSBY 2,574,246

COLLAPSIBLE DISPOSABLE CONTAINER

Filed June 19, 1950 2 SHEETS--SHEET 1

Fig. 1.



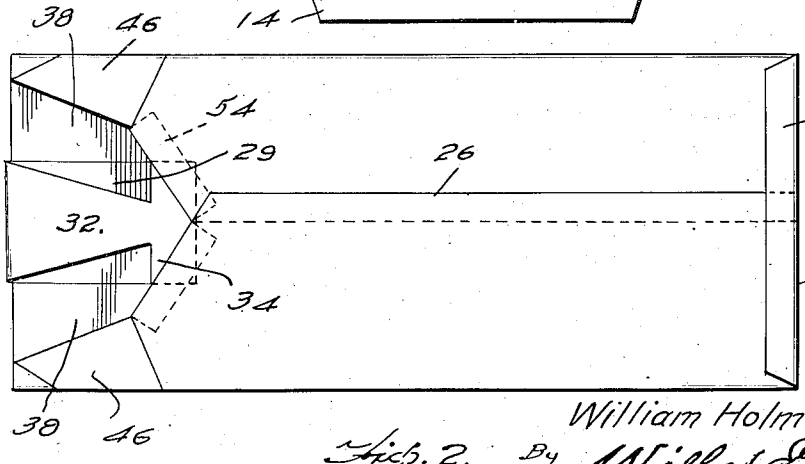


Fig. 2.

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Fig. 3.

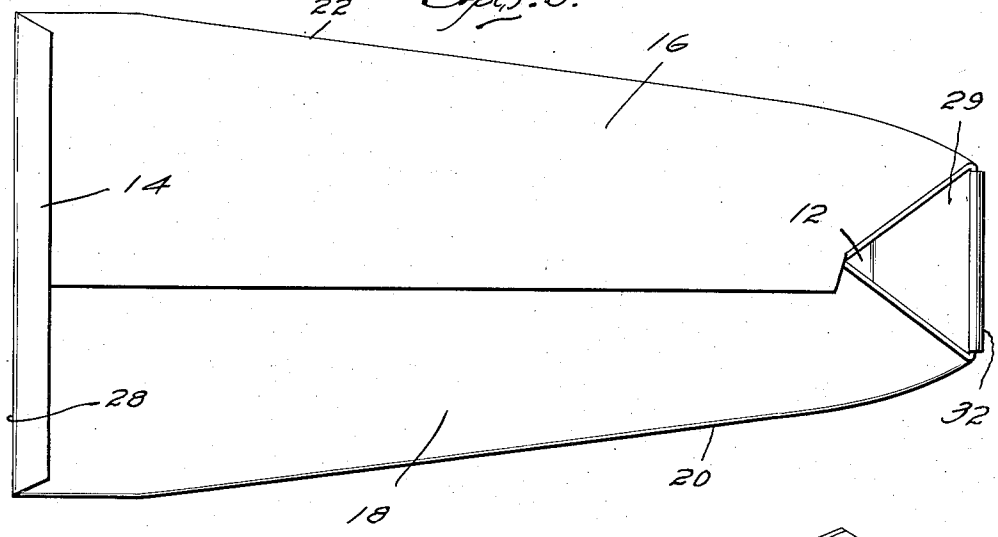
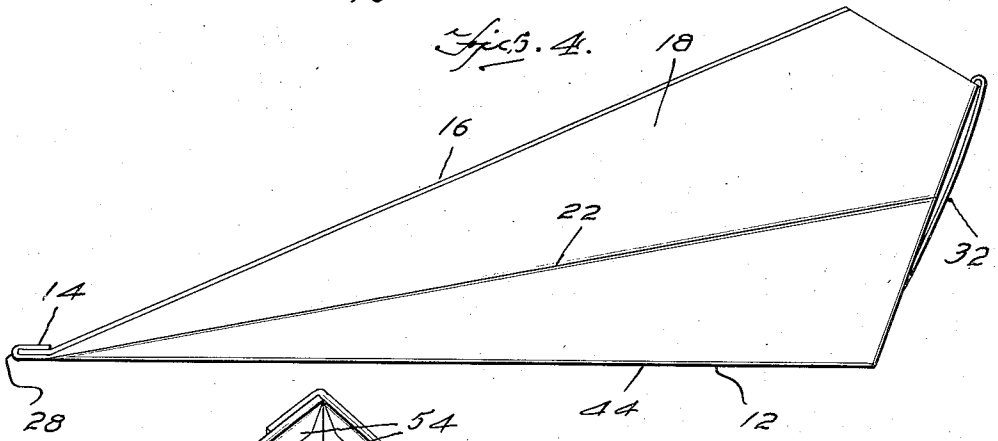


Fig. 4.



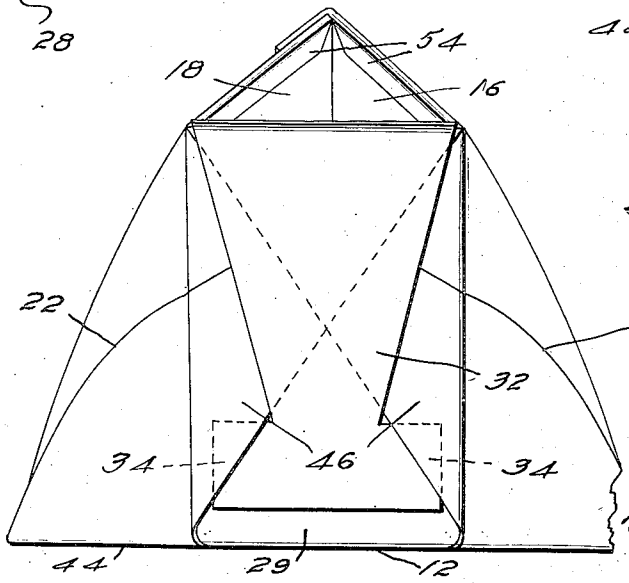


Fig. 5.

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UNITED STATES PATENT OFFICE

2,574,246

COLLAPSIBLE DISPOSABLE CONTAINER

William Holmes Crosby, Oil City, Pa.

Application June 19, 1950, Serial No. 168,888

5 Claims. (Cl. 229—22)

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This invention relates to a collapsible disposable container and more particularly to a disposable bottle for receiving the urine of bedridden patients.

The primary object of this invention is to improve the sanitary conditions under which patients are cared for and to avoid the labor attendent upon the cleaning and sterilizing of bottles of the type to which this invention relates.

Another object is to provide maximum capacity in the bottle and at the same time avoid the spilling of the contents thereof.

Still another object is to enable a bedridden patient to care for his needs without requiring the services of an attendant.

A still further object is to enable a traveller to carry a supply of such bottles and retain them in a condition for instant use.

The above and other objects may be attained by employing this invention which embodies among its features a collapsible structure which may be readily stored or transported according to the requirements of the user.

Other features include the construction of the bottle of an inexpensive substance which may be disposed of when it has served its purpose.

Still other features include a unique arrangement of panels, extensions, and flaps which when extended form a hollow container with no raw edges to injure the anatomy of the user.

In the drawings:

Figure 1 is a plan view of a blank from which this improved container is constructed;

Figure 2 is a front view of the blank folded and cemented and ready for storage or use;

Figure 3 is a plan view of the container after it has been folded and is ready for use;

Figure 4 is a side view of the bottle illustrated in Figure 3; and

Figure 5 is an end view of the container illustrated in Figure 3.

Referring to the drawings in detail this improved container is made from a blank designated generally 10 which comprises a back panel 12 having formed at one end a sealing flap 14 which folds over the side members 16 and 18 which are folded along fold-lines 20 and 22 respectively to form the front panel of the container generally designated 10.

When the side members 16 and 18 have been so folded, their adjacent edges are arranged in overlapping relation and sealed at 26, and the flap 14 is then turned upwardly along fold-line 28 to overlie the bottom edge of the front panel 10 and is sealed thereto with any suitable wa-

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ter-proof cement, it being understood that this material is used wherever junctions require sealing.

Carried at the end of the back wall 12 remote from the flap 14 is an end panel 29 which is joined to the back panel 12 along a fold line 30, and extending from the end of the end panel 29 remote from the fold-line 30 is a tongue 32, the side edges of which preferably converge as illustrated in Figure 1, and formed at the end of the tongue 32 remote from the end wall 29 are laterally extending ears 34, the purpose of which will hereinafter appear. Joining the end panel or wall 29 along fold lines 36 on opposite sides of said panel are lateral extensions 38.

Formed on opposite sides of the back panel 12 are side panels 40 which are defined between fold-lines 42 and 44 which diverge as they recede from opposite sides of the end panel 28, and the fold-lines 20 and 22 respectively.

Joining the sides 40 adjacent the end of the blank carrying the end panel 29 are extensions 46 which are separated from the side panels 40 by fold-lines 48, and from the extensions 38 by fold-lines 50.

As illustrated in Figure 1, the major portion of each lateral extension 38 of the back panel 28 lies within a rectangle defining the back of the container while a very small portion of each extension occupies a small area of the members 16 and 18. On the other hand, the area of the blank occupied by the extensions 46 is about equally divided between the rectangle defining the back of the device and the members 16 and 18 respectively.

A flap 54 is carried by each of the side members 16 and 18 between the extensions 46 and the outer edges of the members 16 and 18, and these flaps are adapted to be folded back against the inner side of the front panel of the container so as to avoid the production of raw edges which might serve to injure the user.

With the containers assembled as illustrated, they may be stored flat and ready for instant use. When it is desired to place such a container into service, opposite side edges of the container are squeezed together and the back wall 29 is moved upwardly to stand at an angle to the back panel 12. This means that the end panel 29 moves relative to the back panel 12 along its fold line 30, thus causing the extensions 38 to exert pull on the extensions 46 and cause the extensions 38 and 46 to fold against one another along a fold line 50. The flaps thus formed by the folding of the extensions 38 and 46 against one another, are

then turned inwardly to lie in overlapping relation to the outer side of the end panel **29**, to thus form a complete container.

In order to hold the parts in this position, the tongue **32** is folded outwardly and downwardly to overlie the flaps formed by the extensions **38** and **46**, and the laterally projecting ears **34** on the tongue are entered behind the flaps as illustrated in Figure 5, thus locking the parts in extended position so that the container is now ready for use.

Inasmuch as it is my purpose to construct the container of an inexpensive, non-metallic, semi-rigid, sheet material such as paper impregnated with paraffin or the like, it is evident that after use and the contents has been disposed of, the container itself may likewise be disposed of by incineration or otherwise. Owing to the fact that the containers until ready for use remain in a flattened condition, it is obvious that large quantities may be stored in a minimum amount of space and ready for instant use.

While in the foregoing there has been shown and described the preferred form of this invention, it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

I claim:

1. A collapsible disposable container comprising an elongated back panel having convergent side edges, an end panel carried by the back panel at the convergent ends of the side edges thereof, side panels carried by the back panel and extending along opposite side edges thereof, a front panel joined to the side panels along the edges thereof remote from the back panel, said front panel joining the back panel at the end thereof remote from the end panel, lateral extensions on the end panel, and extensions on the side panels joining the extensions on the end panel and forming flaps which fold over the back of the end panel.

2. A collapsible disposable container comprising an elongated back panel having convergent side edges, an end panel carried by the back panel at the convergent ends of the side edges thereof, side panels carried by the back panel and extending along opposite side edges thereof, a front panel joined to the side panels along the edges thereof remote from the back panel, said front panel joining the back panel at the end thereof remote from the end panel, lateral extensions on the end panel, extensions on the side panels joining the extensions on the end panel and forming flaps which fold over the back of the end panel, a tongue carried by the end panel at the end thereof remote from the back panel and laterally extending ears on the tongue for engaging the flaps and holding them folded in container forming position.

3. A collapsible disposable container comprising an elongated back panel having convergent side edges, an end panel carried by the back

panel at the convergent ends of the side edges thereof, side panels carried by the back panel and extending along opposite side edges thereof, a front panel joined to the side panels along the edges thereof remote from the back panel, said front panel joining the back panel at the end thereof remote from the end panel, lateral extensions on the end panel, extensions on the side panels joining the extensions on the end panel, and extensions on the front panel joining the extensions on the side panels, said extensions on the side and front panels lying adjacent the extensions on the end panel to form flaps which overlie the outer side of the end panel.

4. A collapsible disposable container comprising an elongated back panel having convergent side edges, an end panel carried by the back panel at the convergent ends of the side edges thereof, side panels carried by the back panel and extending along opposite side edges thereof, a front panel joined to the side panels along the edges thereof remote from the back panel, said front panel joining the back panel at the end thereof remote from the end panel, lateral extensions on the end panel, extensions on the side panels joining the extensions on the end panel, extensions on the front panel joining the extensions on the side panels, said extensions on the side and front panels lying adjacent the extensions on the end panel to form flaps which overlie the outer side of the end panel, a tongue on the end panel at the end thereof remote from the back panel and laterally extending ears on the tongue for engagement behind the flaps when they overlie the end panel.

5. A collapsible disposable container comprising an elongated back panel having convergent side edges, an end panel carried by the back panel at the convergent ends of the side edges thereof, side panels carried by the back panel and extending along opposite side edges thereof, a front panel joined to the side panels along the edges thereof remote from the back panel, said front panel joining the back panel at the end thereof remote from the end panel, lateral extensions on the end panel, extensions on the side panels joining the extensions on the end panel, extensions on the front panel joining the extensions on the side panels, said extensions on the side and front panels lying adjacent the extensions on the end panel to form flaps which overlie the outer side of the end panel, a tongue on the end panel at the end thereof remote from the back panel and laterally extending ears on the tongue for engagement behind the flaps when they overlie the end panel, said front panel having a V-shaped notch therein between the extensions thereon and inturned flaps on the front panel between the extensions thereon for cooperation with the tongue in covering exposed edges of the container.

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No references cited.