Jan. 11, 1944. K. T. BUTTERY 2,338,900

CUP OR CONTAINER

Filed June 13, 1942

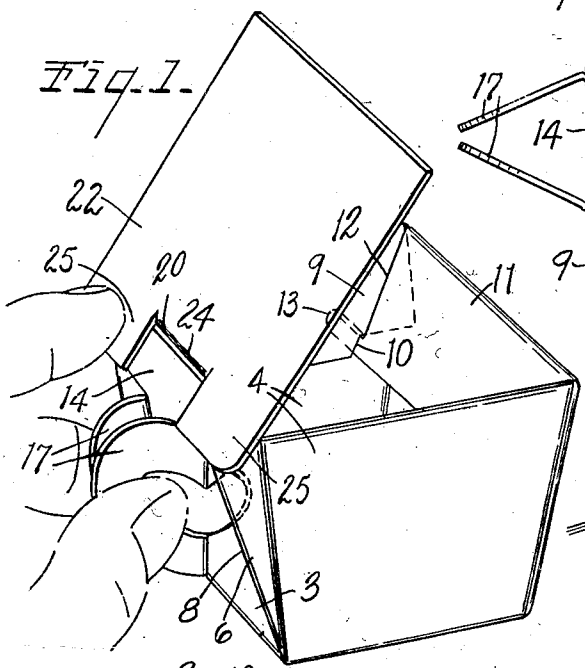


Fig. 1.

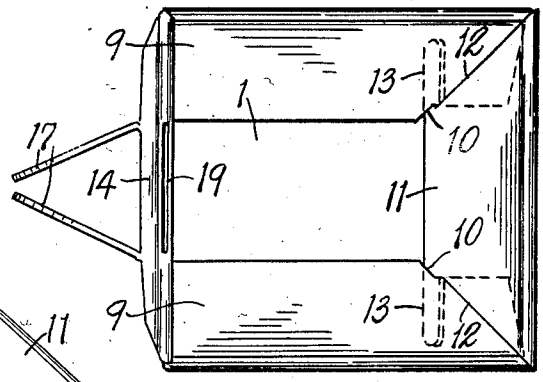


Fig. 2.

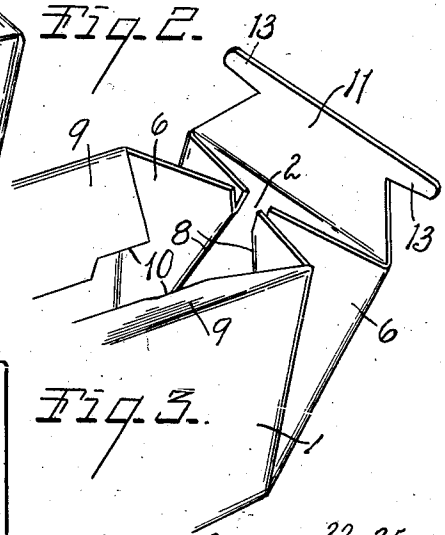


Fig. 3.

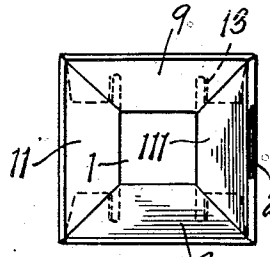


Fig. 7.

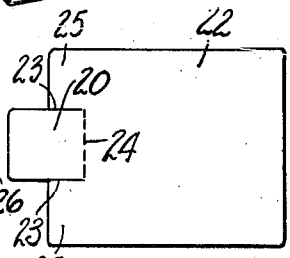


Fig. 6.

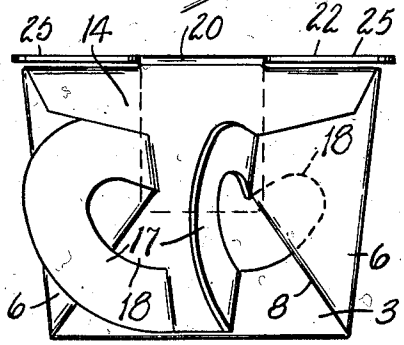


Fig. 4.

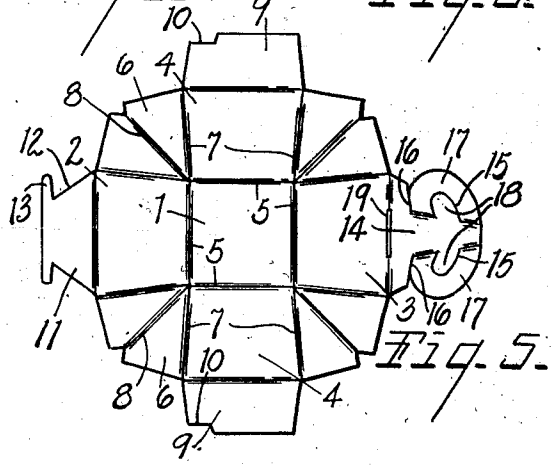


Fig. 5.

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UNITED STATES PATENT OFFICE

2,338,900

CUP OR CONTAINER

Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.

Application June 13, 1942, Serial No. 446,895

12 Claims. (Cl. 229—25)

This invention relates to improvements in cups or containers.

The main objects of this invention are:

First, to provide a handled cup or container which is well adapted as a sputum cup for use in hospitals and the like which is provided with a cover and at the same time very convenient to use.

Second, to provide a cup or container having these advantages which may be very economically produced.

Third, to provide a structure of this character which may be made of comparatively light stock and at the same time when assembled is rigid and not likely to collapse, even when considerable pressure is inadvertently exerted thereon.

Objects pertaining to details and economies of the invention will definitely appear from the description to follow. The invention is defined in the claims.

A structure which embodies the features of the invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view illustrating how the cup may be grasped and the cover opened.

Fig. 2 is a top view.

Fig. 3 is a fragmentary perspective view illustrating certain of the structural details and the steps of setting up the carton.

Fig. 4 is a rear elevation with one of the handle members in erected position and the other in collapsed position.

Fig. 5 is a plan view of the blank from which the cup or container illustrated is formed.

Fig. 6 is a plan view of the cover with the hinge member in collapsed position.

Fig. 7 is a plan view of a modified form or embodiment of the invention in which the handle is omitted.

The embodiment of my invention illustrated comprises a bottom 1, front wall 2, rear wall 3, and opposed side walls 4, 4. These walls are hingedly connected to the bottom by the score lines 5. The foldable corner members 6 are hingedly connected to the walls by the score lines 7 and have diagonal scores 8 permitting the diagonal folding thereof.

The side walls 4 are provided with pocket flap extensions 9, preferably notched at 10 on their front outer corners. The front wall 2 is provided with a pocket flap 11 having notched edges 12 providing tongues 13. The notched edges are shaped so as to receive the pocket flaps 9 when they are folded inwardly to an angular relation to the walls to which they are attached as clearly shown in Figs. 1 and 2, in which position the tongues 13 engage in the notches 10. This effectively holds these pocket flaps in inwardly inclined position when they are erected. In erecting, the corner flaps joining the front wall 2 and the side walls 4 are folded inwardly, that is, on the inside of the front wall. The corner members joining the rear wall with the side walls are folded outwardly around the outer side of the rear wall.

The rear wall is provided with a handle member extension or flap 14 on its upper edge hingedly connected thereto and foldable outwardly over the adjacent folded corner flaps. This handle member in the embodiment illustrated has curved edges and is provided with opposed C-shaped slits 15 and opposed slits 16 to provide opposed loop-like handle members 17 which may be swung to erected inclined relation to each other for grasping, in which position they serve to mutually press each other and, when grasped, prevent any substantial swinging or pivotal movement of the handle. The slits 15 form tongues 18 which are engaged beneath the folded corner members, thereby retaining the handle member in erected position.

At the folding juncture of the handle member with the wall I provide a slot 19 adapted to receive the tongue-like hinge member 20 of the cover 22. This cover is formed of suitable gauge container stock and the tongue is formed by parallel slits 23 extending from the rear edge of the cover. A hinge 24 is provided by scoring or a series of perforations, or other weakening at the base of the tongue. The tongue is inserted in the slot after the handle member has been erected and secured in position. The portions 25 of the cover which project rearwardly from its hinging point serve as finger pieces to facilitate the opening of the cover as indicated in Fig. 1.

In the embodiment shown in Fig. 7 the handle member is omitted and a pocket flap 111, corresponding to the opposed pocket flap 11, is provided. In this embodiment both outer corners of the pocket members 9 are notched. A cover hinge member receiving slot 26 is formed at the juncture of the pocket flap 111 with its wall. In this case the cup is grasped by the body instead of by a handle and the cover may be manipulated in the same way as in the preferred embodiment.

My improved cup or container is well adapted as a sputum cup, the pocket members effectively retaining the contents when the cup is manipulated. The containers may be shipped and stored

in the knockdown and quickly set up for use. The parts are so arranged that they are effectively retained in position and the walls and the pocket members are in mutually bracing relation when in erected position.

It is believed this disclosure will enable those skilled in the art to embody or adapt my invention as may be desired to meet particular requirements. The embodiment illustrated, however, is a highly desirable one.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A cup comprising a bottom and front and rear and side walls hingedly connected to the bottom, and diagonally foldable corner members hingedly connected to the end edges of said front, rear and side walls, the side walls being provided with infolded side pocket flaps notched at their outer front corners, the front wall having an in-folded front pocket flap provided with laterally projecting tongues engageable with said notches of said side wall pocket flaps, the rear wall having an out-turned handle member on its top edge slit to provide coacting handle members and oppositely projecting tongues, the front corner members being folded on the inner side of the front wall and the tongues of said front pocket flap being engaged with said notched edges of said side wall pocket flaps, the rear corner members being folded upon the outer side of the rear wall and the tongues of said handle member being engaged thereunder, said infolded side pocket flaps extending rearwardly to support the rear wall against inward collapse.

2. A cup comprising a bottom and front and rear and side walls hingedly connected to the bottom, diagonally foldable corner members hingedly connected to the end edges of said front, rear and side walls, the side walls being provided with in-folded side pocket flaps notched at their outer front corners, the front wall having an in-folded front pocket flap provided with tongues engageable with said notches of said side wall pocket flaps, the rear wall having an out-turned handle member on its top edge slit to provide coacting handle members and oppositely projecting tongues, the front corner members being folded on the inner side of the front wall and the tongues of said front pocket flap being engaged with said side wall pocket flaps, the rear corner members being folded upon the outer side of the rear wall and the tongues of said handle member engaged thereunder, said infolded side pocket flaps extending rearwardly to support the rear wall against inward collapse.

3. A cup comprising a bottom and front and rear and side walls hingedly connected to the bottom, diagonally foldable corner members hingedly connected to the end edges of said front, rear and side walls, the side walls being provided with in-folded side pocket flaps notched at their outer front corners, the front wall having an in-folded front pocket flap provided with tongues engageable with said notches of said side wall pocket flaps, the rear wall having an out-turned handle member on its top edge slit to provide coacting handle members and oppositely projecting tongues, there being a slot at the juncture of the handle member with the rear wall, the front corner members being folded on the inner side of the front wall and the tongues of said front pocket flap being engaged with said side wall pocket flaps, the rear corner members being folded upon the outer side of the rear wall and the tongues of said handle member engaged thereunder, and a cover having spaced slits extending from its rear edge providing a tongue-like hinge member, said hinge member being engaged in said slot, the portion of said cover projecting rearwardly of said hinge member constituting a finger piece facilitating the opening of the cover, said infolded side pocket flaps extending rearwardly to support the rear wall against inward collapse.

4. A cup comprising a bottom and front and rear and side walls hingedly connected to the bottom, diagonally foldable corner members hingedly connected to the end edges of said front, rear and side walls, the side walls being provided with in-folded side pocket flaps notched at their outer front corners, the front wall having an in-folded front pocket flap provided with laterally projecting tongues engageable with said notches of said side wall pocket flaps, the rear wall having an out-turned handle member, there being a slot at the juncture of the handle member with the rear wall, the front corner members being folded on the inner side of the front wall and the front pocket flap folded inwardly over said front cover members and lying between and retainingly engaged with said side wall pocket flaps, the rear corner members being folded upon the outer side of the rear wall and the said handle member being folded outwardly over the said corner member and retainingly engaged therewith, and a cover having spaced slits extending from its rear edge providing a tongue-like hinge member, said hinge member being engaged in said slot, a portion of said cover projecting rearwardly of said hinge member constituting a finger piece facilitating the opening of the cover, said infolded side pocket flaps extending rearwardly to support the rear wall against inward collapse.

5. A cup comprising a bottom and front and rear and side walls hingedly connected to the bottom, diagonally foldable corner members hingedly connected to the end edges of said front, rear and side walls, the side walls being provided with in-folded side pocket flaps notched at their outer front corners, the front wall having an in-folded front pocket flaps provided with laterally projecting tongues engageable with said notches of said side wall pocket flaps, the rear wall having an out-turned handle member, the front corner members being folded on the inner side of the front wall and the front pocket flap folded inwardly over said front cover members and lying between and retainingly engaged with said side wall pocket flaps, the rear corner members being folded upon the outer side of the rear wall and the said handle member being folded outwardly over the said corner member and retainingly engaged therewith, said infolded side pocket flaps extending rearwardly to support the rear wall against inward collapse.

6. A container comprising a bottom and walls hingedly connected to the bottom, the walls being connected by diagonally foldable corner members hingedly connected to the walls, one wall having an out-turned handle member on its top edge, there being a slot at the juncture of the handle member with its wall, the adjacent corner flaps being folded on the outer side of the wall provided with the handle member and the handle member being retainingly engaged with the folded corner members, and a cover provided with a tongue-like hinge member engaged in said slot, the cover having a finger-piece projecting rear-

wardly beyond its hinge member to facilitate opening of the cover.

7. A container comprising a bottom and walls hingedly connected to the bottom, the walls being connected by diagonally foldable corner members hingedly connected to the walls, one wall having an out-turned handle member on its top edge, the adjacent corner flaps being folded on the outer side of the wall provided with the handle member and the handle member being retainingly engaged with the folded corner members.

8. A container comprising a bottom, and walls hingedly connected to the bottom, the walls being connected by diagonally foldable corner members hingedly connected to the walls, one wall having an out-turned handle member on its top edge curved on its side edges and having opposed C-shaped slits therein providing coacting loop-like handle members and oppositely projecting tongues, the adjacent corner flaps being folded on the outer side of the wall provided with the handle member and the tongues of the handle member being retainingly engaged with the folded corner members.

9. A container comprising a bottom and walls hingedly connected to the bottom, the walls being connected by diagonally foldable corner members hingedly connected to the walls, one wall having an out-turned handle member on its top edge, there being a slot at the juncture of the handle member with its wall, the adjacent corner flaps being folded on the outer side of the wall provided with the handle member and the handle member being retainingly engaged with the folded corner members, and a cover provided with a tongue-like hinge member engaged in said slot.

10. A container comprising a bottom and walls hingedly connected thereto, the walls being connected by diagonally foldable corner members, said walls being provided with infolded pocket flaps which are supportingly engaged when they are disposed in an inwardly inclined relation, there being a slot at the juncture of one of the flaps with its wall, and a cover member having a tongue-like hinge member engaged in said slot, a portion of the cover member projecting rearwardly of its hinge member constituting a finger piece facilitating the opening of the cover.

11. A container comprising a bottom and walls hingedly connected thereto, the walls being connected by diagonally foldable corner members, said walls being provided with in-folded pocket flaps which are supportingly engaged when they are disposed in an inwardly inclined relation, there being a slot at the juncture of one of the flaps with its wall, and a cover member having a tongue-like hinge member engaged in said slot.

12. A container comprising a bottom and walls hingedly connected thereto, the walls being connected by diagonally foldable corner members, said walls being provided with downwardly projecting pocket flaps, certain of said pocket flaps being infolded and supportingly engaged with each other when they are disposed in an inwardly inclined relation, one of said first mentioned pocket flaps having a slot at its juncture with its wall, and a cover member having a tongue-like hinge member engaged in said slot, a portion of the cover member projecting outwardly of its hinge member constituting a finger piece facilitating the opening of the cover.

KENNETH T. BUTTERY.