June 9, 1953 K. T. BUTTERY ET AL 2,641,403

HANDLED CUP

Filed April 16, 1947 2 Sheets-Sheet 1

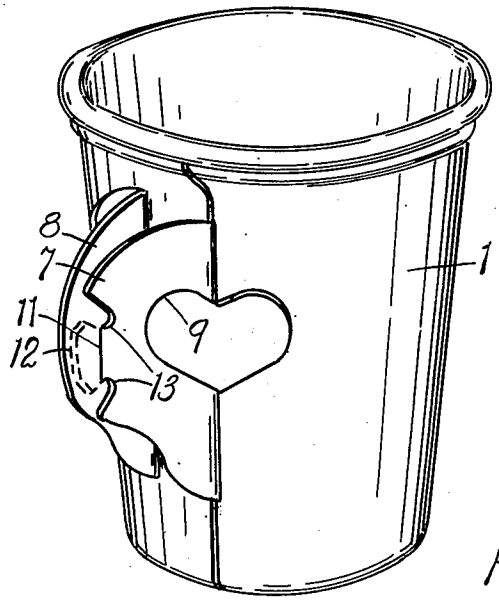


FIG. 1

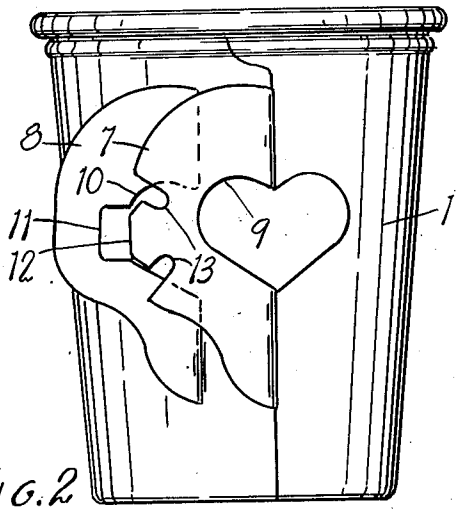


FIG. 2

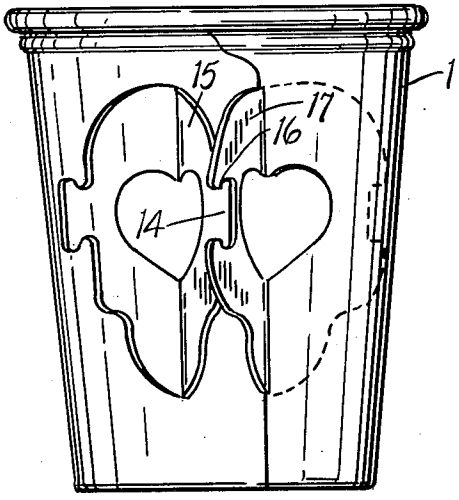


FIG. 5

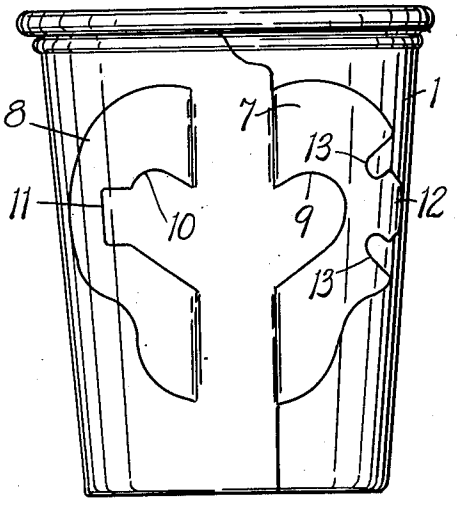


FIG. 3

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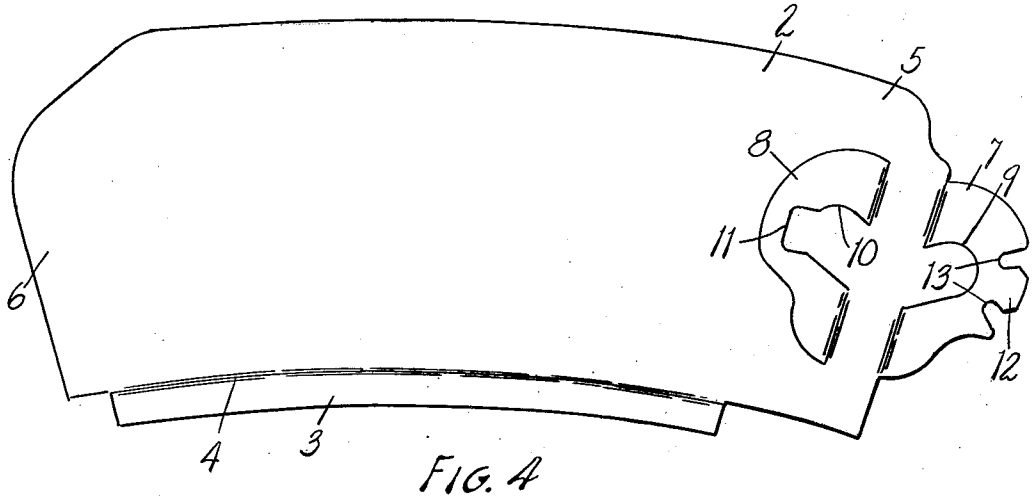


FIG. 4

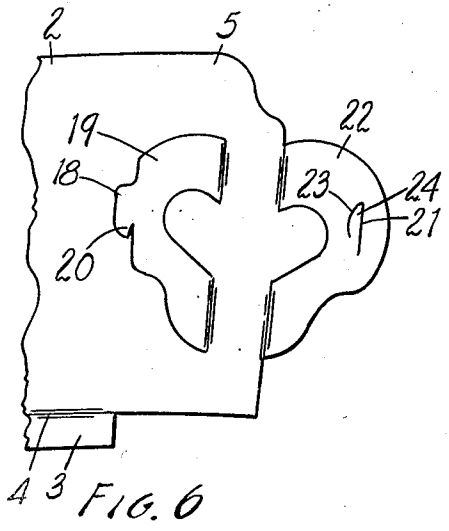


FIG. 6

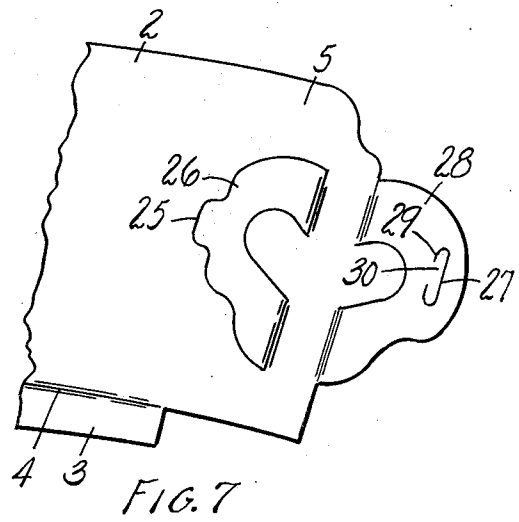


FIG. 7

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HANDLED CUP

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Application April 16, 1947, Serial No. 741,854

9 Claims. (Cl. 229—52)

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This invention relates to improvements in handled cups or like receptacles or dishes.

The main objects of this invention are:

First, to provide a handled cup or dish formed of paper or fibrous stock in which the handle is formed integrally with the wall stock, is collapsible against the side of the container to permit nesting and is securely supported in erected position for convenience in repeated grasping.

Second, to provide a handled receptacle of this character in which the handle is strong and rigid even when the receptacle is formed of relatively light stock.

Objects relating to details and economies of the invention will appear from the description to follow. The invention is defined and pointed out in the claims.

Preferred embodiments of the invention are illustrated in the accompanying drawings, in which:

Fig. 1 is a perspective view of a cup or receptacle embodying the invention with the handle in erected position.

Fig. 2 is a side elevation illustrating steps in the engagement of the handle members.

Fig. 3 is a side elevation with the handle members in collapsed position.

Fig. 4 is a plan view of the blank from which the side wall is formed showing the manner in which the same is cut and conformed to provide the handle of the invention.

Fig. 5 is a side elevation illustrating a modified form or embodiment of the invention with the handle members partially erected.

Fig. 6 is a fragmentary plan view of a blank illustrating another modified form or embodiment of the invention.

Fig. 7 is a fragmentary plan view of the wall blank illustrating still another form or embodiment of the invention.

The present invention relates to the type of cup or receptacle illustrated in the Annen Patent 2,060,781, issued November 17, 1936, and is an adaptation and an improvement upon the structure there illustrated. We have illustrated our invention as embodied in a tapered cup or receptacle as it particularly lends itself to the telescoping or nesting of the cups.

The body or wall 1 of the receptacle is formed of a blank 2 of fibrous container stock, this being arcuately curved, the body blank having a bottom extension 3 separated from the body proper by score 4 for folding around the edge of the bottom which we have not illustrated as it forms no part of the present invention.

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The side wall has a sealing flap 5 at one end which overlaps and is adhesively secured to the opposite end 6. The sealing flap end 5 of the wall which is the outer end is cut and slit to provide oppositely disposed U-shaped handle members 7 and 8.

The openings 9 and 10 of the handle members 7 and 8 are desirably of such size as to permit a finger being passed into at least one of them. The handle member 8 is provided with a notch-like opening or slot 11 on its inner edge located centrally thereof while the member 7 is provided with a dovetail-shaped tongue 12 which may be engaged with the slot 11 as shown in Fig. 1 to hold the handle members in erected position for simultaneous grasping.

The tongue 12 is desirably formed by providing angularly spaced inwardly converging slots 13 in the outer edge of the handle 7 providing recesses receiving the edges of the slot 11 and permitting the deflecting of the tongue to engage the slot or opening 11 and supporting the handle members in side by side position for convenient grasping. Steps in the engagement of the handle members are illustrated in Fig. 2. When the handle members are disengaged and when the receptacle is initially formed they lie close against the side of the receptacle permitting nesting.

In the embodiment shown in Fig. 5, the tongue 14 of the handle member 15 is formed on the outer edge thereof to engage the opening 16 at the outer edge of the handle member 17. In this structure the tongue can be readily snapped or pressed into the opening 16—perhaps with greater ease than in the embodiment shown in Figs. 1, 2 and 3.

In the embodiment of the invention shown in Fig. 6, the tongue 18 of the handle member 19 is provided with a hook portion 20, the tongue being engageable with the slit 21 in the handle member 22, the slit having a return hook-like portion 23 providing a deflectable part 24 facilitating the engagement of the tongue.

In the embodiment of the invention shown in Fig. 7, the tongue 25 of the handle member 26 projects from the outer edge thereof and is engageable with the slit 27 in the enclosed member 28, the slit having return curved extensions 29 providing a deflectable portion 30 to facilitate engagement of the tongue.

In all of these embodiments, the handle members are easily engaged to maintain them in erected position which is a very substantial advantage as after they are engaged they are always in position for convenient grasping.

We have illustrated and described several embodiments or adaptations of the invention. We believe that this disclosure will enable those skilled in the art to embody or adapt the invention as may be desired.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent, is:

1. A cup comprising a side wall formed of a blank having a body portion terminating at one end in a sealing flap conformed at its end and slitted to provide oppositely disposed U-shaped handle members, the sealing flap being lapped upon the outside of the other end of the body portion and adhesively secured thereto to permit the handle members being swung outwardly to erected position, the handle members initially being flush with the surface of the flap and collapsible within said surface to permit nesting, one of the handle members having a finger receiving opening and a slot in the inner edge of the handle member, said slot constituting an extension of the opening, the other having a tongue with an enlarged outer end, said tongue being disposed on the outer edge of the handle member and being engageable with said slot when the handle members are erected, the vertical dimensions of the opening being greater than that of the slot to permit the enlarged outer end of the tongue to be inserted through the opening and thereafter the tongue to be shifted laterally of itself for engagement of the inner narrow portion of the tongue with upper and lower edges of the slot.

2. A cup comprising a side wall having overlapping ends adhesively secured together, the outer overlapping end portion being cut to provide oppositely disposed loop-like collapsible handle members capable of being swung outwardly into inwardly diverging relation, one of said handle members having a finger receiving opening and a recess in the inner edge of the handle member and the other handle member having a tongue with an enlarged outer end, said tongue being interlockingly engageable with said recess when the handle members are in erected position, said recess constituting an extension of the opening, the vertical dimensions of the opening being greater than that of the recess to permit the enlarged outer end of the tongue to be inserted through the opening and thereafter the tongue to be shifted laterally of itself for engagement of the inner narrow portion of the tongue with the upper and lower edges of the recess.

3. A receptacle comprising a side wall of fibrous material having oppositely disposed loop-like handle members collapsible oppositely against the outer side of the receptacle and capable of being swung outwardly into inwardly diverging erected position, one of said handle members having a recess in an outer peripheral edge thereof and the other a dovetailed tongue interlockingly engageable in said recess to hold the handle members in erected position.

4. A receptacle comprising a side wall of fibrous material and having handle members integral therewith and collapsible against the outer side of the receptacle and swingable outwardly to erected position to be simultaneously grasped, one of said handle members having a slit therein and the other a tongue engageable in said slit to hold the handle members in erected position, said tongue projecting outwardly from the outer peripheral edge of the second mentioned handle member in a general direction substantially at right angles to the direction of the hinged connection of said second mentioned handle member to said side wall.

5. A cup comprising a side wall formed with overlapping ends, the outer overlapping end being cut to provide oppositely disposed loop-like handle members swingable to an erected position for simultaneous grasping, said handle members having co-engageable parts for retaining the handle members in erected position, said handle members having vertically disposed hinged connections to said side wall, said co-engageable parts including a tongue projecting outwardly from the outer peripheral edge of one handle member and disposed in substantially spaced relation from the upper and lower ends of the hinge connection to said handle member to the side wall, said co-engageable parts including a slot in the other handle member for receiving said tongue and disposed in substantially spaced relation from the upper and lower ends of the hinge connection of said handle member to the side wall, said tongue being disposed to flex horizontally relative to the handle member to which it is connected to facilitate insertion thereof into the slot of the other handle member, said tongue when assembled in said slot projecting outwardly from the outer peripheral edge of the handle member to which it is connected and being disposed substantially in the plane thereof.

6. A cup comprising, a side wall formed of blank having a body portion terminating at one end in a sealing flap conformed at its end and slitted to provide oppositely disposed handle members, the sealing flap being lapped upon the outside of the other end of the body portion and adhesively secured thereto, said handle members having laterally spaced vertically disposed hinge connections to the side wall permitting their being swung outwardly to erected inwardly diverging relation to each other with their outer portions in side by side relation for grasping, one of said handle members having a centrally disposed slot therein remote from its hinged connection to the wall, the other having a centrally disposed tongue projecting outwardly from the outer peripheral edge thereof and laterally aligned with said slot to be interlockingly engaged therein with the handle members in erected position, the tongue being disposed on the outer side of the handle member having the tongue receiving slot therein to be grasped with the grasping of both handle members.

7. A cup comprising, a side wall having oppositely disposed handle members integral therewith and having laterally spaced vertically disposed hinge connections thereto permitting their being swung outwardly to erected inwardly diverging relation to each other with their outer portions in side by side relation for simultaneously grasping, one of said handle members having a centrally disposed recess therein remote from its hinged connection to the wall, the other having a centrally disposed tongue projecting outwardly from the outer peripheral edge thereof and laterally aligned with said recess to be engaged therein, the tongue being disposed on the outer side of the handle member having the tongue receiving recess therein to be grasped with the grasping of both handle members.

8. A cup comprising, a side wall of fibrous material having handle members having laterally spaced vertically hinged connections to the side wall and swingable outwardly to an inwardly diverging erected position with the outer por-

tions of the handle members in side by side relation for simultaneous grasping, one of the handle members having an outwardly projecting tongue remote from its hinge connection to the side wall, the other having a like spaced recess through which the tongue may be disposed to interlock with said other handle member and when so disposed is positioned on the outer side of the handle member having the recess therein to be grasped therewith.

9. A cup comprising, a side wall of fibrous material having handle members having laterally spaced vertically disposed hinge connections to the side wall and swingable outwardly to an inwardly diverging erected position with the outer portions of the handle members in side by side relation for simultaneous grasping, one of the handle members having a tongue remote from its hinge connection and the other a slot through which the tongue may be disposed for interlocking engagement and when so engaged is positioned to be grasped with the handle members.

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LOUIS W. SUTHERLAND, JR.

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