June 19, 1945. H. CAREW 2,378,750

PAPER CONTAINER

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Fig. 1.

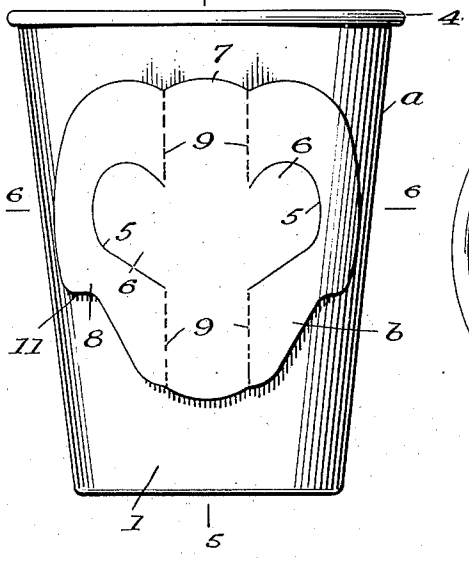
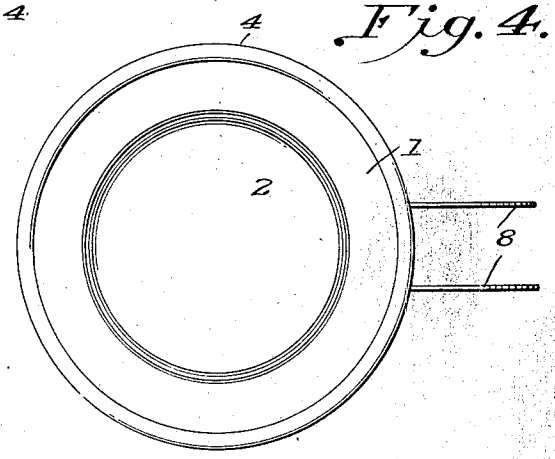


Fig. 4.



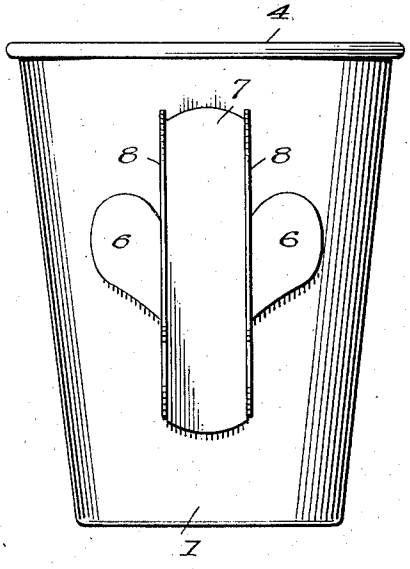


Fig. 2.

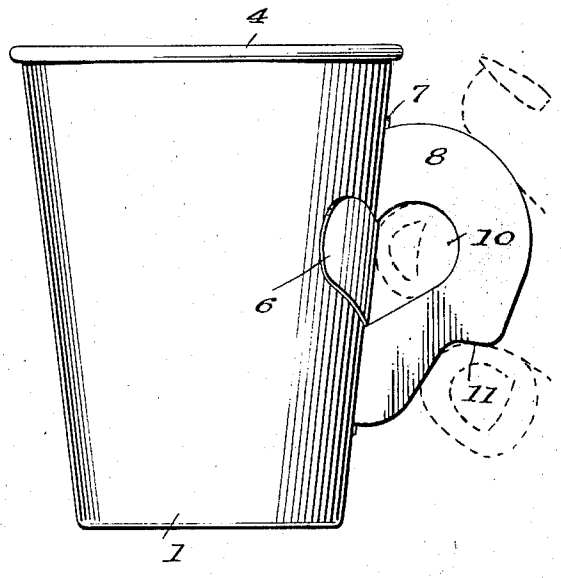


Fig. 3.

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Fig. 5.

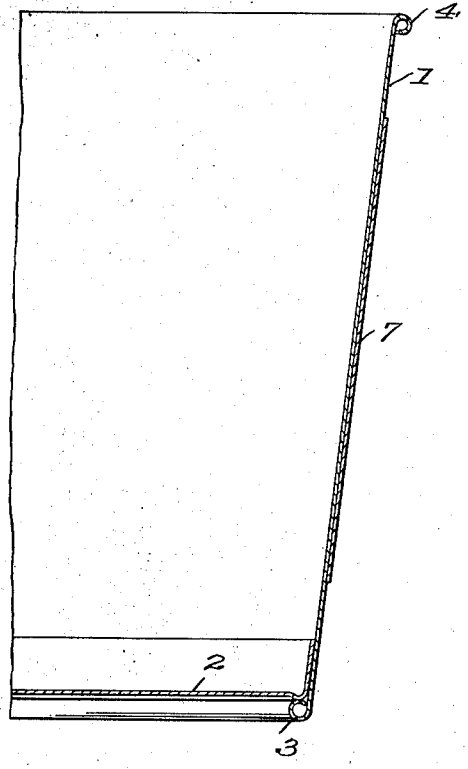


Fig. 7.

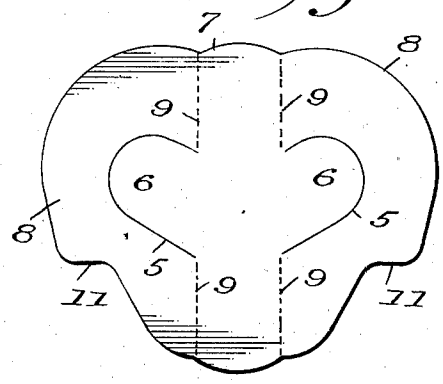


Fig. 8.

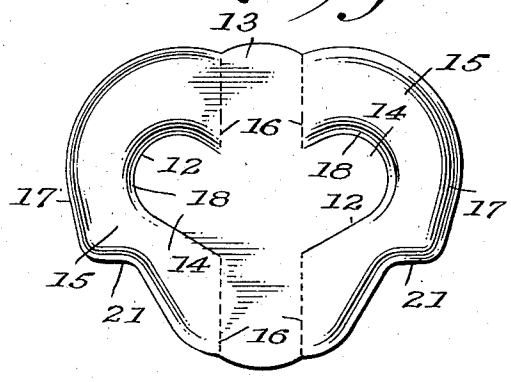


Fig. 6.

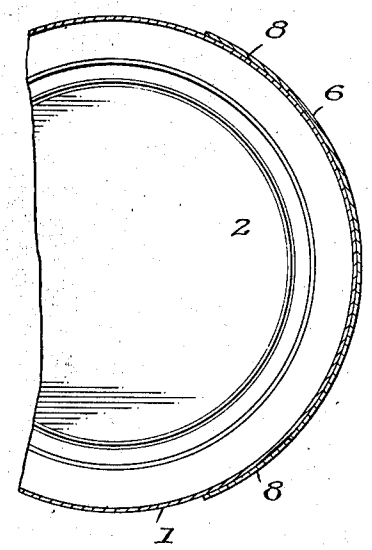
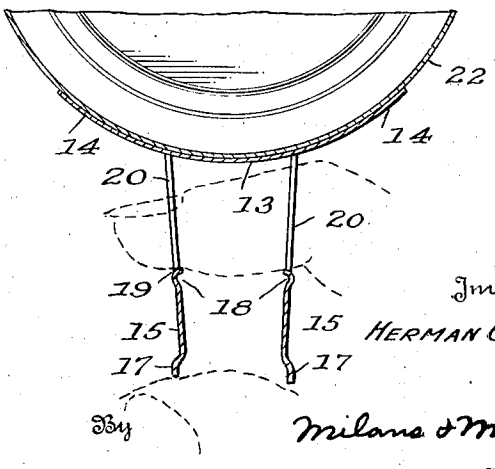


Fig. 9.



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Patented June 19, 1945 2,378,750

UNITED STATES PATENT OFFICE

2,378,750

PAPER CONTAINER

Herman Carew, Easton, Pa., assignor to Dixie Cup Company, a corporation of Delaware

Application July 30, 1940, Serial No. 348,537

4 Claims. (Cl. 229—1.5)

My invention relates to new and useful improvements in containers and more particularly to a paper cup having a handle whereby it may be supported or carried in use, the handle being formed of a piece of material separate from that from which the body of the cup is formed and adapted to be secured to the cup body by adhesive or in other desired manner.

The principal object of the invention resides in the provision of a paper container or cup having a handle secured to the side of the body thereof, the handle being formed from a blank of material which normally conforms to the curvature of the body, adapting the containers or cups to be nested, but including members which may be bent outwardly from the body of the cup to provide finger-engaging portions with openings through which a finger may be inserted.

Another object of the invention consists in the provision of a handle for a paper container or cup formed from a blank of material which is cut to provide a portion which may be secured to the side of the container or cup by adhesive or in other manner, and members which normally lie flat against the outer face of the cup body but which may be bent outwardly to provide finger-engaging portions having openings through which a finger of the user may be engaged.

A further object of the invention consists in the provision of a paper container or cup having a handle, the handle being formed from a blank of flexible material formed to provide a portion which may be secured to the container or cup body by adhesive or in other desired manner and members which may be folded outwardly or bent outwardly to provide finger-engaging portions, these outwardly bent finger-engaging portions each having an opening through which a finger may be inserted, the openings having rounded edge portions, to engage the finger inserted through the openings and forming a smooth surface without danger of cutting the finger or causing discomfiture thereto.

With the above and other objects in view, which will appear as the description proceeds, my invention consists in the novel details of construction, and arrangement of parts, described in the following specification and illustrated in the accompanying drawings, and while I have illustrated and described the preferred embodiments of the invention, as they now appear to me, it will be understood that such changes may be made as will fall within the scope of the appended claims.

In the drawings—

Fig. 1 is a side elevation showing the handle in its normal position.

Fig. 2 is a side elevation showing the finger-engaging portions of the handle bent outwardly from the cup body for use.

Fig. 3 is a side elevation at right angles to Fig. 2 showing the finger-engaging portions bent outwardly with respect to the body.

Fig. 4 is a top plan of the container or cup with the handle as arranged in Fig. 3.

Fig. 5 is a fragmental section on the line 5—5 of Fig. 1.

Fig. 6 is a horizontal section on the line 6—6 of Fig. 1.

Fig. 7 is a plan of the handle blank.

Fig. 8 is a view similar to Fig. 7 showing a slightly modified form of handle; and

Fig. 9 is a fragmental horizontal section through a container or cup employing the handle of the modified form, the blank from which the handle is made being shown in Fig. 8.

I am, of course, aware that paper containers or cups have been provided with handles which are of particular advantage when the container or cup contains hot liquids. In some instances the handles are formed from the blank of material which forms the body of the cup or container and in other instances the handle is formed as a separate member and secured to the body. However, I am not aware of any container or cup, either of paper or other material, embodying a handle formed in the manner in which my handle is formed and will be claimed. My improved form of handle is formed from a single blank of material which is cut to provide a portion adapted to be secured to the container or cup body by adhesive or other means and members which are adapted to be bent outwardly to provide finger-engaging portions, the finger-engaging portions normally lying flat against the outer surface of the body conforming to the curvature thereof. The portion which is secured to the body of the container or cup includes an elongated vertical part and laterally extending ears thereby providing a relatively large area secured to the container or cup body and adapted for strain either vertically or circumferentially of the body. There is particular advantage in having the handle made from a blank separate from the body. Different weight material may be used in making the handle than is used in making the body and at the same time the handle may be used with containers or cups of different size. The handle will be made of paper or cardboard-like material the same as the body and when the handle is in

its normal position with the finger-engaging members in contact with the body and extending around a portion of the circumference thereof a plurality of containers or cups may be stacked as is the usual custom with devices of this character.

My improved form of container or cup includes the body indicated generally at *a* and the handle indicated generally at *b*. The body includes the tapered side wall 1 and bottom 2, the bottom 2 being positioned within the smaller end of the side wall and is engaged by the rolled edge 3 formed around the lower or smaller end of the side wall. The open end of the side wall is formed with the outwardly turned bead or flange 4, forming a lip portion for drinking from the cup. The side wall 1 is preferably formed from a blank of paper shaped as shown and having its overlapped ends secured together in the usual well-known manner. The paper may be of the desired thickness or weight.

The handle *b* is formed from a blank of paper of the shape shown more particularly in Fig. 7 of the drawings and is formed with the cuts 5, which form the ears 6, extending laterally from the central vertical portion 7. The cuts 5 also form or provide the members 8 which are adapted to be bent on the lines 9 to provide finger-engaging portions with openings 10 through which a finger of the user may be inserted. The blank shown in Fig. 7 is adapted to be secured to the body of the container or cup, or more particularly the side wall thereof, by adhesive, it being understood that it is the vertical portion 7 and the laterally extending ears 6 which receive the adhesive and are the parts directly connected to the wall of the container or cup. In other words the members 8 are not secured to the side wall, although they normally contact therewith and are curved to conform to the curvature thereof shown more particularly in Figs. 1 and 6 of the drawings. When it is desired to use the handle the members 8 will be bent outwardly on the lines 9, as shown more particularly in Figs. 2, 3 and 4 of the drawings to form finger-engaging portions and a finger of the user may be passed through the aligned openings 10, as shown more particularly in Fig. 3 of the drawings with the thumb engaging an edge or edges of the members as also shown in Fig. 3. Further the members 8 have their edges formed to provide the shoulders 11 and when the members are bent outwardly and the cup or container is in use a finger of the user will be engaged beneath the shoulders as also shown in Fig. 3.

In Figs. 8 and 9 of the drawings I have illustrated a handle blank of slightly different form than that disclosed in Fig. 7 of the drawings, although of the same general shape or outline. In this modified form of the invention the blank is cut on the lines 12 to form the central elongated part 13, the laterally extending ears 14 and finger-engaging members 15, the finger-engaging members being adapted to be bent on the lines 16 as will be later brought out and as shown more particularly in Fig. 9 of the drawings. The members 15 are pressed to provide around their outer edges an offset flange 17 and around a portion of the cuts 12 a groove 18, forming a curved edge 19 to be engaged by a finger inserted through the openings 20, as shown more particularly in Fig. 9 of the drawings, when the members are bent into their outwardly extending positions. The edges of the members 15 are further curved to provide the shoulders 21 similar to the shoulders 11, shown in Figs. 3 and 7 of the drawings and beneath which a finger will be engaged in the same manner as shown in Fig. 3. The elongated portion 13, as well as the laterally extending ears 17 of the modified form of handle, will be secured to the body 22 of the container or cup by adhesive or in other suitable manner, while the members 15 will not be attached to the body although when in normal position lying flat against the body and conforming to the curvature thereof. When the container or cup is to be used the members 15 will be bent outwardly, as shown more particularly in Fig. 9 of the drawings, to provide the finger-engaging portions.

From the above detailed description it will be seen that I have provided a novel form of handle for a paper container or cup embodying the advantages previously brought out.

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

1. In combination with a paper drinking cup, a handle therefor, said handle being fashioned of flexible material and all portions thereof normally positioned against the exterior surface of the cup and conforming thereto to enable nesting when stacked, the handle having a fixed portion extending longitudinally of the cup, and oppositely disposed portions adapted to be bent outwardly from said fixed portion contoured to present horizontally aligned spaced openings for finger-engagement in supporting the cup and contents, and said oppositely disposed portions below said openings being notched to provide circumferentially spaced engaging portions for finger-engagement to resist forward tipping of the cup under the weight of its contents as well as lateral tipping thereof.

2. In combination with a paper drinking cup, a handle therefor, said handle being fashioned of flexible material and all portions thereof normally positioned against the exterior surface of the cup and conforming thereto to enable nesting when stacked, the handle having a fixed portion extending longitudinally of the cup, and oppositely disposed portions adapted to be bent outwardly from said fixed portion to occupy approximately parallel substantially spaced relationship and contoured to present horizontally aligned correspondingly spaced openings through which a finger may be passed in supporting the cup and contents on said finger, and said oppositely disposed portions below said openings being notched to provide circumferentially spaced engaging portions for another finger to resist forward tipping of the cup under the weight of its contents as well as lateral tipping thereof, and the edges of said oppositely disposed portions above said openings constituting thumb-engaging portions.

3. A paper drinking cup handle formed of flexible material, comprising a base portion attached to the side wall of a cup and oppositely disposed portions extending outwardly from said base portion disposed in approximately parallel relationship and substantially spaced apart, said outwardly disposed portions possessing horizontally aligned openings adapted for finger-engagement and notched in their edges below said openings to provide spaced engaging portions adapted to be engaged by a finger at separated points defined

by the spacing of said outwardly extending portions.

4. A paper drinking cup handle formed of flexible material, comprising a base portion attached to the side wall of a cup and oppositely disposed portions extending outwardly from said base portion disposed in approximately parallel relationship and substantially spaced apart, said outwardly disposed portions possessing horizontally aligned openings adapted for finger-engagement and notched in their edges below said openings to provide spaced engaging portions adapted to be engaged by a finger at separated points defined by the spacing of said outwardly extending portions, finger-engaging portions of the handle being provided with transversely offset portions of the material thereof forming smooth, widened contacting edges for presentation to the finger.

HERMAN CAREW.