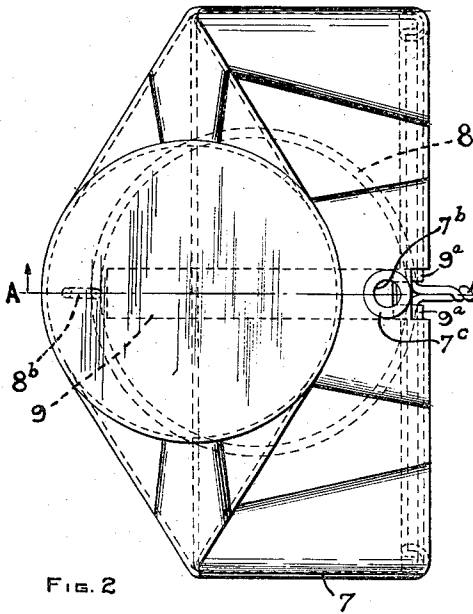
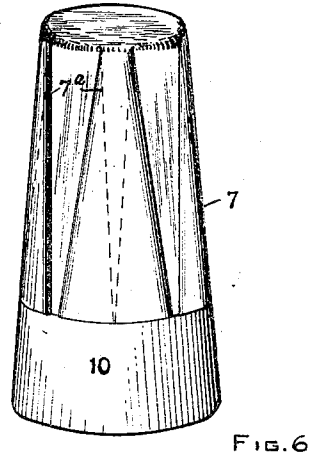
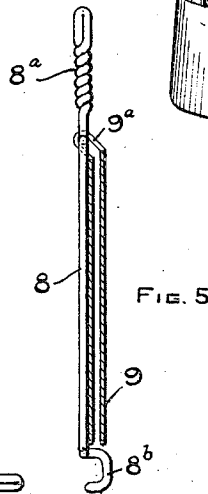
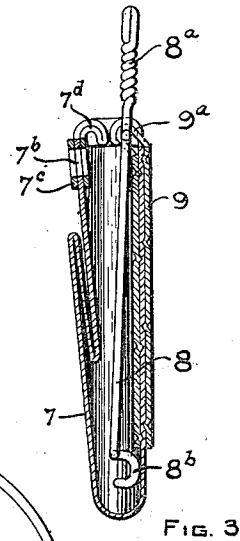
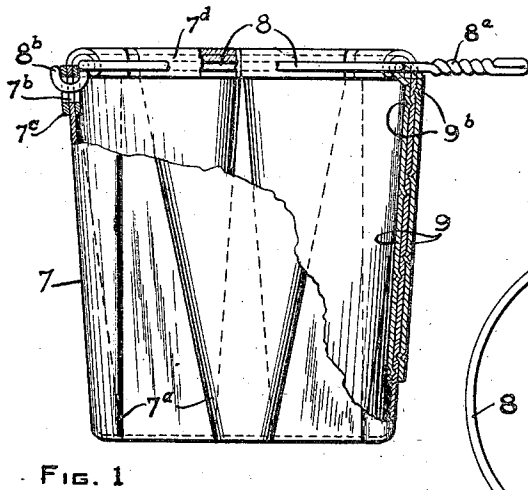
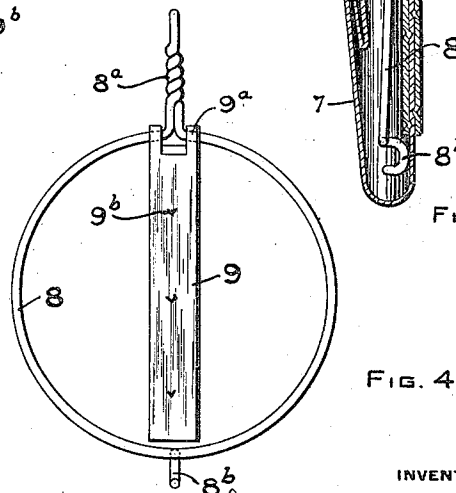


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PAPER VESSEL.
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1,065,917.

Patented July 1, 1913.



WITNESSES:

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Specification of Letters Patent.

Patented July 1, 1913.

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To all whom it may concern:

Be it known that I, CHARLES H. BUTLER, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Paper Vessels, of which the following is a specification.

This invention relates to improvements in the construction of paper vessels of the type designed to be folded or collapsed when not in use and to be extended into cup shape when intended for use as a receptacle for liquid.

The especial object of the improvements which form the subject matter of this application for patent is to produce a vessel of the character stated that can be cheaply manufactured, compactly folded and when extended will afford a suitable container for liquid substances supported by a convenient handle which may be grasped by the user.

In the accompanying drawing I have illustrated a preferred adaptation of my invention in the following views.

Figure 1 shows, partly in elevation and partly in section, a paper vessel constructed according to my invention, when in position for use; Fig. 2 illustrates the same vessel when collapsed or folded; Fig. 3 is a vertical section on the line A—A of Fig. 2; Fig. 4 is a plan view of the metallic supporting device for the vessel; Fig. 5 is an edge and sectional view of said metallic supporting device; and Fig. 6 shows the manner of forming the body of the paper vessel from a suitable blank.

Referring to the details of the drawing, 7 represents generally a cup shaped vessel formed from suitable paper or similar flexible material by pressing a sheet or blank of the proper shape over a trunco-conical templet 10, the surplus material in the blank being pressed into folds as indicated at 7^a, and the sides of the vessel flaring outwardly from the bottom to the upper edge. At one point in the side wall of the vessel 7, and near the upper edge thereof, a hole 7^b is made in which is inserted an eyelet 7^c of tough and stiff material. The free upper edge of the vessel is shown as provided with an inwardly bent flange or rim 7^d but this feature of construction may be omitted if desired, as it is not essential to the operativeness of my invention.

The cup handle and supporting device consists of a wire member 8, bent into the

form of a ring having a diameter approximating the diameter of the upper edge of the cup or vessel 7. The ends of the wire are twisted together for a portion of their length as at 8^a, to form a grip or handle. Applied to the wire member at the junction of the handle with the ring portion, is a clip 9 formed from a strip of thin sheet metal bent upon itself to provide two legs and cut away at its bent portion to provide yokes 9^a which fit closely around the portions of the wire member 8 where the member 9 is suspended. The legs of the member 9 are slightly indented as at 9^b. This supporting member is attached to the vessel at a point directly opposite the opening 7^b by applying the legs of the strap 9 to opposite sides of the wall of the vessel and pressing the indentations into the said walls so as to provide a firm gripping or frictional engagement of the legs with said walls. When in this position, the member 8, which may be properly termed the bail, will have a pivotal action on the clamping member 9. At a point directly opposite the handle 8^a of the bail, the hook 8^b is formed, either by bending the wire at this point upon itself, or by attaching said hook to the ring 8.

In a device constructed substantially as described, it will be apparent that when the bail is secured to the vessel and the latter is in its unfolded condition, by depressing the handle 8^a from a vertical to a horizontal position, the ring 8 will be pressed into the rim 7^d and the hook 8^b will be pushed into the eyeleted opening 7^b, and thus the cup or vessel will be supported around its periphery or rim by said wire member which in turn will be supported by the fingers of the user grasping the handle 8^a. When it is desired to fold or collapse the vessel, the hook will be disengaged from the opening 7^b and the bail member will be brought down against the side walls of the vessel, as indicated in Fig. 3. If the vessel is then folded along lines of fold which will be provided in the manufacture of the device, it will assume the shape indicated in Figs. 2 and 3.

It will be apparent that if the inwardly turned or overhanging flange 7^d is omitted from the upper edge of the vessel, the latter will be supported at the point of attachment of the legs 9 and the point of engagement of the hook 8^b with the eyeleted opening 7^b, and for all practical purposes (it being un-

derstood that the vessel is made of suitable material) such support will be ample.

The legs 9 are made of a stiffer material than the vessel, extend from the upper edge 5 to the bottom of the latter, and have a substantial width, hence serve to reinforce the sides of the vessel throughout a considerable portion of their area, and thus give a rigidity to the device when in use that enables it 10 to properly support a greater weight than would otherwise be possible.

While I have referred to the strip from which the legs 9 are formed as being thin sheet metal, it may be of a paper or cardboard material possessing the requisite 15 strength and stiffness and secured to the sides of the vessel by a suitable adhesive.

Having thus described my invention what I claim as new, is:—

20 1. A foldable vessel having supporting means consisting of clamping members engaging the opposite faces of the side wall of the vessel, and a bail pivoted on said

clamping members and provided with a handle adapted to extend at right angles 25 from said side wall, and with a hook adapted to engage a suitable opening in said vessel, said bail foldable within the vessel when the latter is in its folded position.

2. A foldable vessel having an opening 30 near its upper edge, and means for supporting said vessel in operative position, said means consisting of stiff flat members engaging the side wall of said vessel, and a wire member pivotally connected with said 35 flat members and provided with a handle, a ring and a hook, said ring fitting within and bearing against the rim of said vessel, and the hook engaging said opening, when the vessel is in operative position. 40

In testimony whereof I affix my signature in the presence of two witnesses.

CHARLES H. BUTLER.

Witnesses:

H. DE LOS HIGMAN,

M. A. MILORD.