Aug. 19, 1952 A. McD. HESS 2,607,509

CONTAINER

Filed Dec. 24, 1949

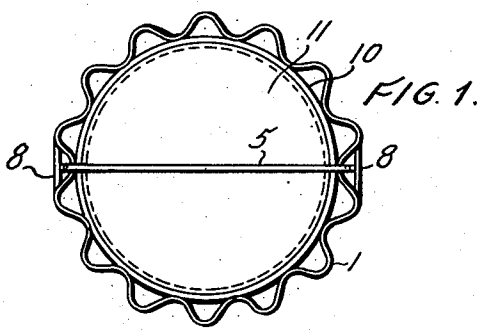


FIG. 1.

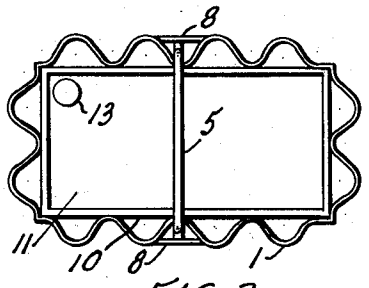
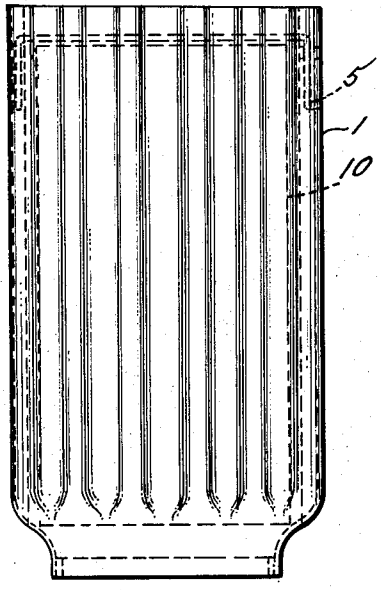


FIG. 3.

FIG. 2.



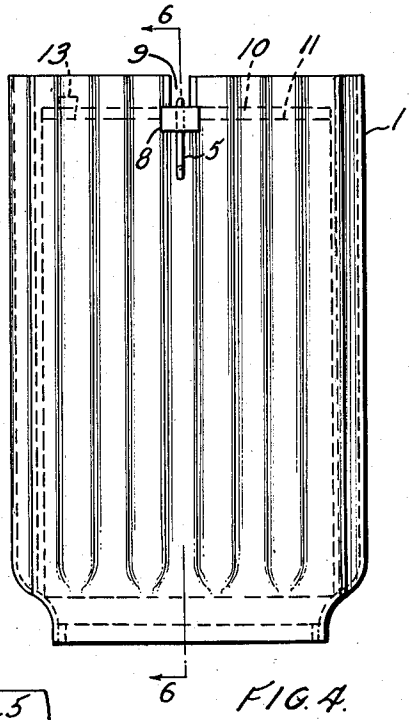


FIG. 4.

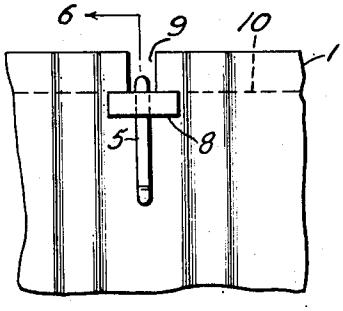


FIG. 5.

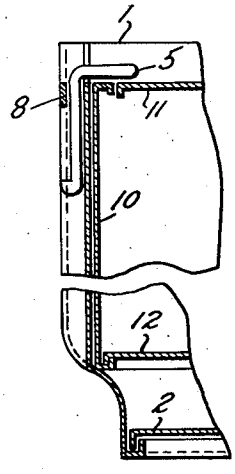


FIG. 6.

INVENTOR

Alexander McD. Hess

Patented Aug. 19, 1952 2,607,509

UNITED STATES PATENT OFFICE

2,607,509

CONTAINER

Alexander McD. Hess, New York, N. Y.

Application December 24, 1949, Serial No. 134,959

4 Claims. (Cl. 220—10)

1

This invention relates to containers for paint, varnish, and the like, and more particularly to an inner container which is sealed and which normally contains the paint or varnish and an outer container which serves as a protective shield for the inner container and otherwise, as will be fully disclosed hereinafter.

At the present time most containers for paints, varnishes and the like are made of sheet metal in cylindrical or rectangular shapes the former having friction covers which serve as seals when pressed in tightly, and the latter usually having small circular necks situated near corners of their tops which of themselves are sealed. A principal objection to the present day containers is that they become damaged in shipping or handling which frequently results in a total loss of the contents or else the containers are battered and distorted to such an extent that the sale value is lowered and such packages must be sold at greatly reduced prices.

An object of the present invention is the provision of a protective outer casing so formed as to protect the inner container and to permit of stacking end on end or nesting into one another.

Another object of the present invention is the provision of an outer container immediately available as a mixing pot into which the contents of the inner container may be poured for mixing and use, and which later may be returned in part to the inner container and resealed if desired.

Still another object of the present invention is the provision of a bail that may serve as a support for a paint brush when it is not in use as a handle, and which does not protrude beyond the container wall.

Yet another object of the present invention is the provision of a corrugated outer container which is adapted for better wiping of a paint brush upon its rim so as to reduce bubbling and retention of air in the brush which form flaws in newly applied paint or varnish as it is applied by the brush.

Broadly the invention contemplates an inner container of lighter plate than almost all of the present day containers are made of which is made possible by the provision of outer containers or casings which preferably are corrugated both for strength and which will permit a certain amount of distortion from contact upon the outer-most portions of the corrugations without affecting the inner containers.

These and other objects of the invention will

2

become apparent from the following description taken in connection with the drawing in the several figures of a preferred embodiment of the invention in which:

Fig. 1 is a view in plan of a cylindrical container.

Fig. 2 is a view in elevation of a cylindrical container.

Fig. 3 is a view in plan of a rectangular container.

Fig. 4 is a view in elevation of a rectangular container.

Fig. 5 is a view in elevation of a bail and its attachment to the outer container.

Fig. 6 is a view taken on the line 6—6 of Fig. 4 showing the bail in full elevation.

As shown in the drawings an outer casing or vessel 1 is appropriately corrugated from the top rim (which may be turned in for strength and so as to present a smooth finished edge but which feature is not shown in the drawing) to a point of termination near the bottom which is crimped inwardly around its entire periphery to form a smaller diameter and the edge of which is turned to engage and seal in a bottom plate 2.

A bail 5 having hooks in its ends adapted to engage cleats 8 which are secured to the wall of the outer container 1 is adapted to be moved upwardly or downwardly and does not protrude beyond the outer periphery of the wall of the container. When not in use as a handle the bail 5 may rest upon the horizontal rim of a slot 9 in the top edge of the container 1. The slot 9 is cut deeply enough in the container 1 so that when the bail 5 is resting upon its horizontal rim there will be enough room left between the upper portion of the bail 5 and the top edge of container 1 to serve as a securing nest for the crimped in bottom of another container 1 when placed thereupon. The handle when in the latter mentioned position may serve also as a rest or support for a paint brush. The vertical portions of the handle 5 though shown relatively short in the drawing must be long enough to permit easy removal of an inner container 10 when the handle is lifted and tilted to one side.

The corrugations in the outer container 1 serve a double purpose with the outer container 1 constructed or formed in the manner shown in that they strengthen the container walls and also serve to form a space between the outer container 1 and the inner container 10, which permits of a certain amount of distortion before the inner container 10 will become affected.

Still further the corrugations serve to afford better wiping of a paint brush than does the ordinarily smooth circular rim of a paint container, and to promote mixing of paint or any other contents of the inner container 10 which may have a tendency to separate out when such containers set in a warehouse or on a shelf for a time, and are put into the outer container for remixing.

As a further use the outer container 1 may be used as a cleaning vessel into which solvents may be poured for cleaning paint brushes. Here again the corrugations are helpful in breaking up solidified paint in brushes when they are forcibly drawn across the upper rim of container 1.

The inner container 10 if cylindrical is preferably provided with a friction or "squeeze" top 11 as shown in Fig. 6, and if rectangular is preferably provided with a neck 13 as shown in Figs. 2, 3 and 4. In either shape the inner container 10 is provided with a suitable bottom plate 12 secured to the bottom edge of the side wall of the container 10, which is adapted to rest upon the crimped-in bottom portion of the outer container 1.

Due to the shielding or protection afforded by the outer container 1 which may be made of light plate metal or a synthetic material, the inner container 10 which usually is made of so-called tin-plate may be made of lighter material than such containers are ordinarily made, thus serving to keep down the manufacturing costs.

It is to be realized that one of the most serious objections to present day containers is the spoilage caused by damaging one container and which due to spilling of its contents causes multiple damage to surrounding containers especially those which are labelled and whose labels are resultingly disfigured. One of the chief offenders among the causes of such damage is the pail's protruding bail and its lugs or ears. As may be seen all such objections are overcome in the present invention.

Thus while there is disclosed and illustrated a preferred embodiment of my invention, it will be apparent that the details may be varied without departing from the spirit and scope of my invention, and I desire that the invention be limited only by the broad description and the appended claims.

I claim:

1. A container comprising an open-top outer vessel having a corrugated wall and a crimped-in bottom, a bail fitted to the outside of the vessel within corrugations and cleats secured to the outside of the vessel within the same corrugations and which cleats engage said bail, a sealed inner vessel adapted to fit snugly within the outer vessel in protected relationship therewith supported by the crimped-in bottom of the outer vessel.

2. A container comprising an open-top outer vessel having a corrugated wall and slots within corrugations in its top edge and a crimped-in sealed bottom, a movable bail fitted to the outside of the vessel within the same corrugations adapted to rest upon the horizontal rims of said slots and cleats secured to the outside of the vessel within the same corrugations and which cleats engage said bail, a sealed inner vessel adapted to fit snugly within the outer vessel in protected relationship therewith and below said bail when it is at rest upon the crimped-in bottom of the outer vessel.

3. A container comprising an open-top sealed-bottom outer vessel having a corrugated wall and slots within corrugations in its top edge, a movable bail fitted to the outside of the vessel within the same corrugations adapted to rest upon the horizontal rims of said slots, cleats secured to the outside of the vessels within the same corrugations and which cleats engage said bail, and a crimped-in bottom, a sealed inner vessel adapted to fit snugly within the outer vessel in protected relationship therewith and of such relative height that when its bottom rim is resting upon the crimped-in bottom portion of the outer vessel its top will be just below the bail when it is at rest upon the horizontal rims of said slots.

4. A container comprising an open-top sealed-bottom outer vessel having a corrugated wall and slots within corrugations in its top edge, a movable bail fitted to the outside of the vessel within the same corrugations adapted to rest upon the horizontal rims of said slots, cleats secured to the outside of the vessels within the same corrugations and which cleats engage said bail, and a crimped-in bottom, a sealed inner vessel made of smooth relatively thin material adapted to fit snugly within the outer vessel in protected relationship therewith and of such relative height that when its bottom rim is resting upon the crimped-in bottom portion of the outer vessel its top will be just below the bail when it is at rest upon the horizontal rims of said slots.

ALEXANDER McD. HESS.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
340,721	Litchfield	Apr. 27, 1886
926,648	Friend	June 29, 1909
998,490	Fitch	July 18, 1911
2,257,569	McCarthy	Sept. 30, 1941
2,288,602	Benton	July 7, 1942