July 14, 1942. C. C. CONWAY, JR 2,289,758

CONTAINER

Filed July 20, 1939

FIG. 1.

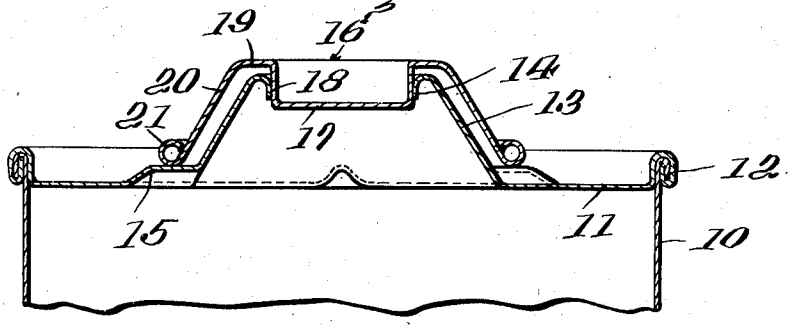


FIG. 2.

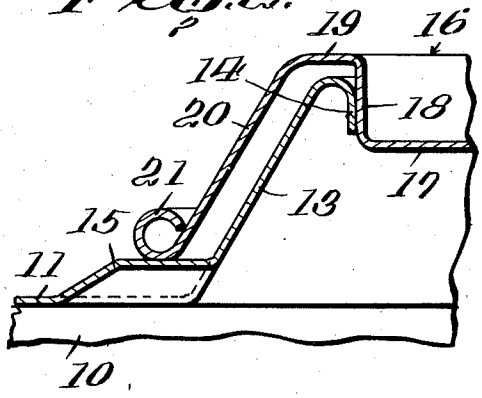


FIG. 3.

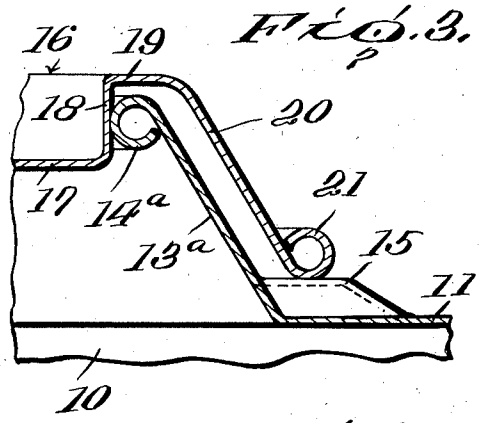


FIG. 4.

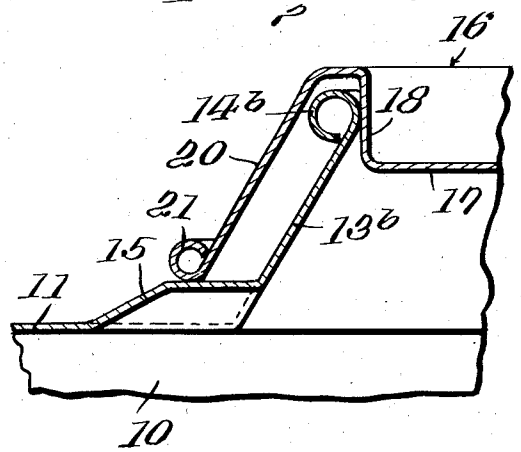
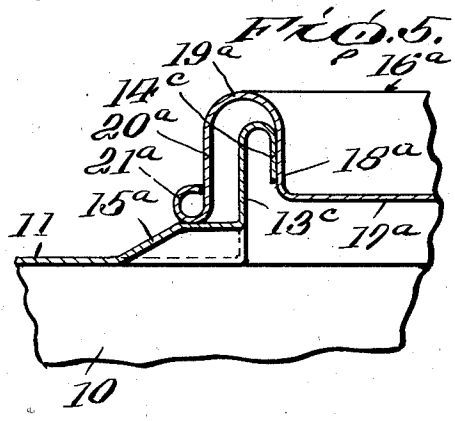


FIG. 5.



INVENTOR
C. C. Conway, Jr.

By

Mason & Porter
ATTORNEYS

Patented July 14, 1942 2,289,758

UNITED STATES PATENT OFFICE

2,289,758

CONTAINER

Carle C. Conway, Jr., Scarborough, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application July 20, 1939, Serial No. 285,595

1 Claim. (Cl. 220—42)

The present invention relates to new and useful improvements in containers, and more particularly to improvements in containers for holding liquid glue and other liquids, such as paints, lacquers and varnishes.

The invention contemplates generally the provision of a sheet metal container having a body portion and an end portion which is secured thereto and which is provided with an upstanding neck portion. There is also provided a cover which is shaped to provide a friction plug closure adapted to fit within the neck portion of the container and with an outer wall portion which is spaced from the neck portion. In applying liquid glue or other similar liquids, it is customary to employ a brush which is dipped into the container and the general tendency is to wipe the brush on the neck portion of the container so as to regulate the amount of liquid which remains on the brush. Some of the liquid thus removed from the brush will roll or drip down the outer surface of the neck portion of the container and when such liquid accumulates around the neck portion of the container, it has been found that the cover, when re-applied to the container, will often stick or adhere thereto so that difficulty is encountered in removing the cover for subsequent use of the liquid.

An object of the present invention is to provide a container of the above type wherein the cover is secured to the container by contact with the inner wall of the neck portion and wherein there is no contact between the cover around the lip of the neck portion or around the outer wall thereof so as to substantially prevent adhering or sticking of the cover to the container.

A further object of the invention is to provide a container of the above type wherein the cover is prevented from contacting with the lip of the neck portion by means of spaced lugs or projections, these lugs or projections permitting draining of any excess liquid and also permitting the easy insertion therebetween of an instrument for prying off the cover.

A still further object of the invention is to provide a container of the above type wherein the neck portion of the container is tapered downwardly and outwardly from the lip and wherein the cover is provided with a skirt portion which is similarly shaped so as to facilitate the prying off of the cover from the container.

The above and other objects of the invention will in part be obvious and will be hereinafter more fully pointed out.

In the accompanying drawing:

Figure 1 is a fragmentary side view, in section, showing the container with one form of neck portion and with the cover in closed position.

Figure 2 is an enlarged fragmentary sectional view of the cover and neck portion shown in Figure 1.

Figure 3 is a view similar to Figure 2, but showing a modified form of neck portion of the container.

Figure 4 is a view similar to Figure 2, showing a still further modified form of neck portion on the container.

Figure 5 is a view similar to Figure 2, showing a further modified form of cover and neck portion.

Referring more in detail to the accompanying drawing, and particularly to Figures 1 and 2, the container is illustrated as including a body portion 10 which may be of any desired shape. One end of the body portion 10 is closed by an end portion 11 which is secured to the body portion by the usual double seam 12. The end 11 is provided with an upstanding neck portion 13 which tapers upwardly and inwardly from the end portion 11 to the lip around the open end thereof. The free edge 14 of the neck portion 13 is shaped to provide a depending friction wall with the inner surface of which the cover is adapted to cooperate. At the junction between the neck portion and the end 11, there are provided spaced lugs or projections 15 which are formed by a suitable shaping of the metal in this region. These lugs are spaced apart around the neck portion for the purpose to be hereinafter more fully pointed out.

The cover 16 is shaped to provide a central depressed portion 17 which affords an inner friction plug closure for the container. The vertical wall portion 18 of the friction plug 17 is adapted to contact with the friction wall 14 formed by the free end of the neck portion 13. The cover then extends outwardly to provide a substantially horizontal portion 19 which is spaced above the lip around the open end in the neck portion 13 and which merges into a depending skirt portion 20 which is inclined downwardly and outwardly so that it is substantially parallel to the neck portion 13. The skirt portion 20 on the cover 16 is spaced outwardly from the neck portion 13 and is provided with a curl 21 at the lower end thereof for strengthening the same.

When the cover is applied to the container, as shown in Figures 1 and 2, the curl 21 on the cover 16 contacts with the lugs or projections 15 on the container end 11 so as to limit down-

ward movement of the cover with respect to the container. Thus, the lateral and substantially horizontal portion 19 on the cover 16 is spaced above the lip around the open end of the neck portion 13 so that the only point of contact between the cover and the neck portion is between the friction wall 14 on the neck portion 13 and the depending wall portion 18 on the friction plug closure 17. The skirt portion 20 of the cover 16 is spaced outwardly from the inclined wall portion of the neck 13 so that any liquid which may have accumulated around the lip on the neck portion will tend to flow down the same without causing adhering or sticking between the cover and the neck portion. The spaced lugs 15 permit draining of any such excess liquid and also permit the insertion therebetween of an instrument for prying off the cover.

In Figure 3, there is shown a slightly modified form of container. In this form of container, the neck portion 13*a* is provided with an inward bead 14*a* at the open end thereof and the depending wall portion 18 of the plug closure 17 contacts with this inward bead 14*a*. Here again, the remaining portion of the cover is maintained spaced from the neck portion so as to substantially prevent sticking of the cover to the container by accumulated liquid around the neck portion.

In Figure 4, the neck portion 13*b* of the container is illustrated as being provided with an outward bead 14*b* around the open end thereof. In this form of the invention, the depending wall 18 on the friction plug closure of the cover contacts with the inner surface of the neck portion 13*b* around the open end thereof.

In Figure 5, the neck portion 13*c* of the container is illustrated as being substantially vertical and not inclined, as shown in connection with Figures 1 through 4. The neck portion 13*c* is provided with a depending parallel wall portion 14*c* around the open end thereof and this depending wall portion provides a friction wall for cooperation with the vertical wall portion 18*a* on the friction plug closure 17*a* of the cover 16*a*. In this form of the invention, the cover 16*a* is provided with a curved wall portion 19*a* between the friction wall 18*a* and the outer depending skirt portion 20*a*. The skirt portion 20*a* is substantially vertical so that it remains parallel to the wall of the neck portion 13*c*. As in the other forms of the invention, the skirt portion 20*a* is provided with an outward curl 21*a* which abuts against the lugs 15*a* on the container end. Similarly, the wall portion 19*a* and the skirt portion 20*a* of the cover 16*a* are spaced from the top of the neck portion 13*c* and also from the vertical wall portion thereof so as to substantially prevent sticking or adhering of the cover to the container.

From the foregoing description, it will be seen that the present invention provides a container for holding liquid glue, paints, varnishes, lacquers or the like, wherein the cover is secured to the container in such a manner as to substantially prevent the cover from sticking or adhering thereto. The container is provided with an upstanding neck portion, a portion of the inner surface of which serves as a friction wall. The cover is shaped to provide a depending plug portion, the vertical walls of which are adapted to frictionally contact with the inner surface of the neck portion around the opening therethrough. The cover is also provided with a skirt portion which extends outwardly and downwardly from the plug portion thereof and this skirt portion is spaced from the outer surface of the neck portion of the container and from the top end or lip thereof. Thus, the cover contacts with the neck portion of the container only along the inner friction surface within the neck portion and the remaining portions of the cover are spaced from the neck portion. Any of the liquid contents which may accumulate around the lip of the neck portion or the exterior surface thereof does not contact with the cover so that the cover is substantially prevented from sticking or adhering to the container. In this manner, re-opening of the container is facilitated because of the fact that the cover can be easily removed. The lugs or projections which limit downward movement of the cover relative to the container serve to maintain the cover spaced above the lip of the neck portion and these lugs also provide spaces therebetween through which any surplus liquid may drain. Furthermore, the spaces between the lugs permit the easy insertion of an instrument for prying off the cover.

It is to be clearly understood that various changes in the details of construction and arrangement of parts may be made without departing from the scope of the invention as set forth in the appended claim.

I claim:

A container comprising a body wall, an end connected to said body wall and having an upstanding neck portion spaced inwardly from the connection between the body wall and the said end, a cover having a depending skirt portion adapted to overlie the neck portion in outwardly spaced relationship with respect thereto and said cover also having a central plug portion engaging the inner surface of the open end of the neck portion for closing the container and for maintaining the skirt portion spaced outwardly from and out of contact with the neck portion, and spaced relatively narrow upstanding lugs on said end engaging the bottom edge of the neck portion with limited points of contact for maintaining the cover spaced above the lip of the neck portion with the bottom edge of the skirt portion spaced upwardly from and substantially out of contact with the said end whereby to permit draining of the contents from the neck portion and to prevent the contents from accumulating around the neck portion and causing the cover to adhere thereto.

CARLE C. CONWAY, JR.