March 26, 1940. E. E. BAKER 2,195,161

CONTAINER WITH HINGED COVER

Filed Aug. 5, 1938

Fig. 1.

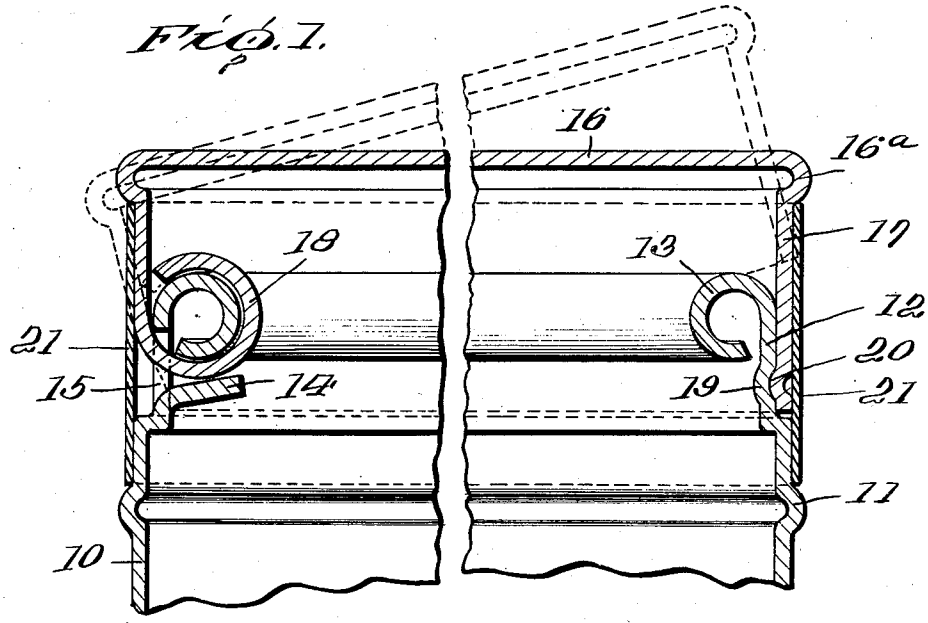


Fig. 2.

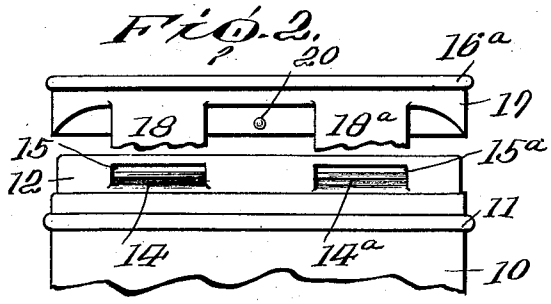


Fig. 3.

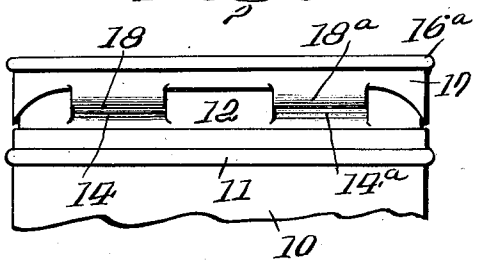
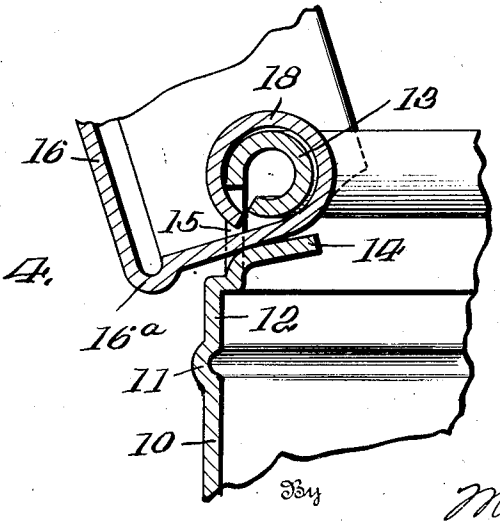


Fig. 4.



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Patented Mar. 26, 1940 2,195,161

UNITED STATES PATENT OFFICE

2,195,161

CONTAINER WITH HINGED COVER

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Application August 5, 1938, Serial No. 223,365

1 Claim. (Cl. 220—31)

The present invention relates to new and useful improvements in containers, and more particularly to improvements in a sheet metal container having a hinged cover.

An object of the invention is to provide a container of the above type, wherein the hinge connection between the cover and the body portion is disposed within the body wall so as to permit the application of an external sealing tape over the adjacent edges of the cover and body portion when the container is closed.

A further object of the invention is to provide a container of the above type, wherein the cover skirt and the adjacent portion of the body wall are shaped so as to provide a recess for receiving the sealing tape in order to prevent tearing or accidental removal of the tape.

A still further object of the invention is to provide a container of the above type, wherein the open end of the body portion is provided with an inward bead which serves as a hinge pintle for a portion of the cover, which cover portion extends through the body wall of the container below the inward bead.

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 an enlarged fragmentary sectional view showing the container with the cover hingedly connected thereto and in a closed position, the dotted lines showing the cover in a partially open position.

Figure 2 is a fragmentary side elevation showing the cover and body portion before being hingedly connected.

Figure 3 is a view similar to Figure 2 but showing the container after the cover and body portion have been hingedly connected.

Figure 4 is an enlarged fragmentary sectional view showing the cover in a fully open position.

Referring more in detail to the accompanying drawing, the container is illustrated as including a body portion 10 having an outward peripheral bead 11 which is spaced below the open end thereof. The body portion 10 is provided with an inset portion 12, the edge of which is inwardly curled to provide an inward bead 13 around the open end thereof. At one side of the inset portion 12 of the body, the metal is cut beneath the bead 13 and bent inwardly of the body portion 10, as at 14, 14a, in order to provide spaced apertures 15, 15a.

The cover 16 is provided with a depending skirt or flange 17 which has an outward bead 16a extending peripherally therearound adjacent the top of the cover. At one side of the cover 16, the flange 17 is partially cut away and provided with extensions 18, 18a which are spaced symmetrically with respect to the openings 14, 14a, in the inset portion 12 of the body. The extended portions 18, 18a on the cover flange are adapted to be passed through the openings 14, 14a respectively, and are then curled around the bead 13 on the body portion. Thus, the portions of the bead encircled by the extensions 18, 18a afford a hinge pintle by which the cover is hingedly connected to the body portion so that the container can be conveniently opened and closed.

Opposite the hinge connection between the cover and the body portion, the inset portion 12 on the body is provided with a recess 19. The cover flange 17 is provided with a similarly placed inward projection or boss 20 which is adapted to snap into the recess 19 when the cover is closed, as shown in Figure 1.

When the cover is closed, the cover flange 17 and the body portion of the container above the bead 11 present a smooth outer surface due to the reduced neck portion 20 which is inwardly offset a distance sufficient to receive the cover flange 12. The bead 16a on the cover and the bead 11 on the body portion extend outwardly and provide a recess therebetween for receiving a sealing tape 21 which covers the adjacent surfaces of the cover flange and the body portion for sealing the container. In this connection, it is to be particularly noted that the hinge connection between the cover and the body portion is disposed within the body wall of the container so that a smooth surface is afforded for receiving the sealing tape 21.

When the container is closed and sealed, the interfitting relationship between the cover flange and the inset portion 12 affords a smooth surface to which the tape 21 is applied. The tape covers the apertures 15, 15a and also the adjacent edges of the cover flange and body portion. The heads 11, 16a on the body portion and cover, respectively, extend outwardly beyond the top and bottom edges of the tape so as to prevent the tape from being accidentally torn or otherwise damaged.

When it is desired to open the container, the tape 21 is cut or removed and the cover moved about the bead 13 which serves as a hinge pintle for the extensions 18, 18a on the cover flange. The inwardly extending portions 14, 14a on the body portion 10 serve as stops for limiting the

outward or opening movement of the cover. Thus, as indicated in Figure 4, the cover flange abuts against the metal portions 14, 14a in its open position.

While one form of the invention has been shown and described for purposes of illustration, it is to be clearly understood that minor 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 having an inset portion around the open end thereof and an outward peripheral bead slightly below said inset portion on the body wall, said inset portion having an inward bead around the end thereof and an aperture below said inward bead and above the outward bead on the body wall, a portion of the body wall in the region of said aperture extending inwardly below the inward bead on said inset portion for providing a stop, a cover having a depending flange adapted to overlie the inset portion on said body for closing the container and providing a substantially smooth exterior surface, said cover having an outward peripheral bead at the top thereof substantially coextensive with the outward bead on said body and the depending flange of said cover having an extension passing through said aperture and encircling the inward bead on said inset portion for hingedly connecting the cover to the body, said depending flange adapted to abut against said stop when the cover is open, and a sealing tape secured over the depending flange on said cover and the adjacent wall of said body and disposed between the outward beads on said cover and said body whereby the sealing tape is protected against accidental tearing.

EDWARD E. BAKER.