March 15, 1932. W. F. PUNTE 1,849,768

EASY OPENING CONTAINER

Filed June 28, 1930

Fig. 1.

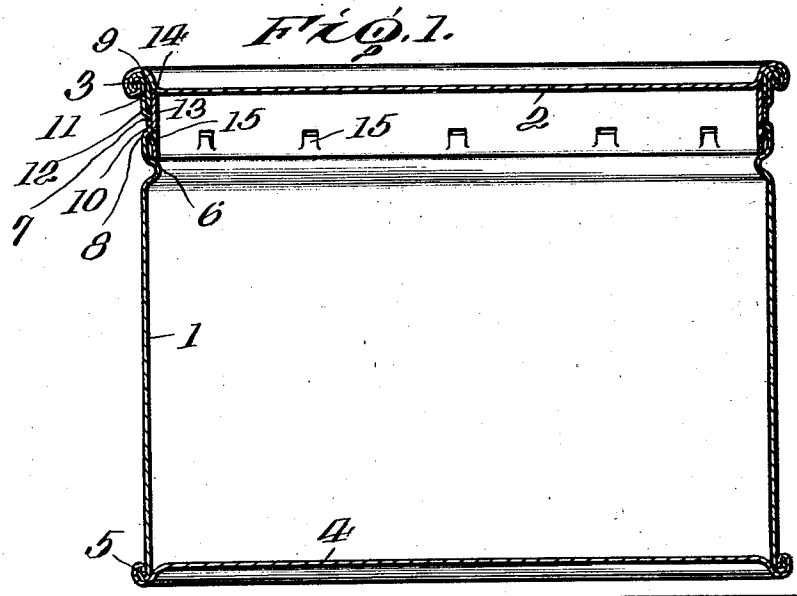


Fig. 2.

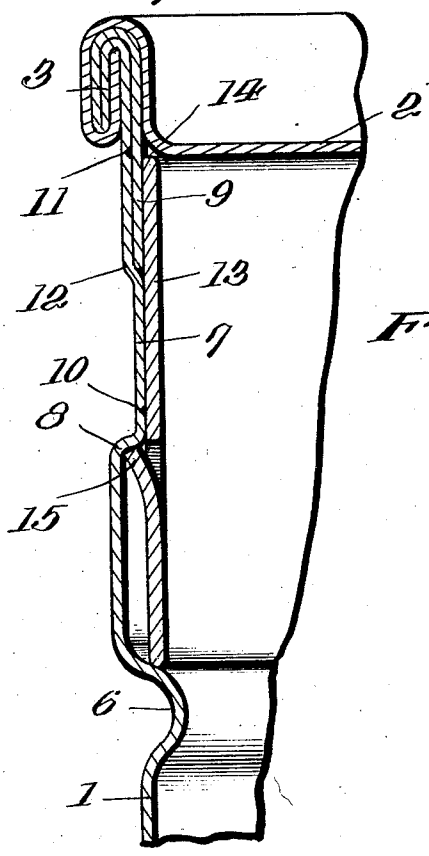
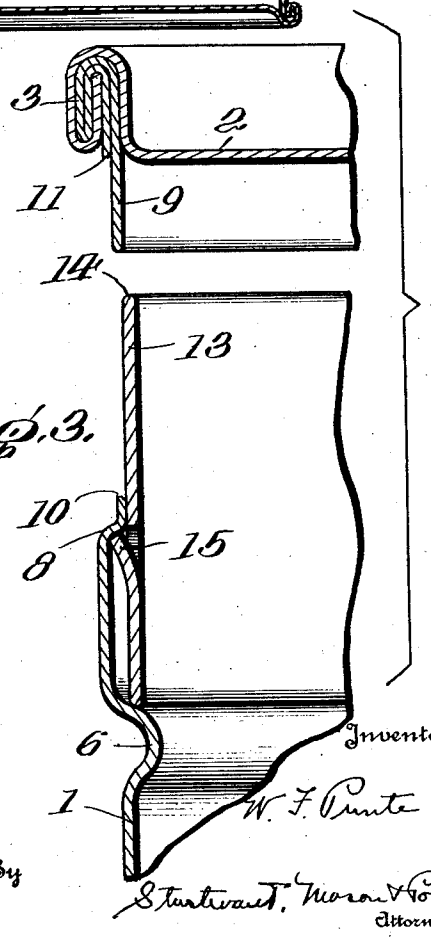


Fig. 3.



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UNITED STATES PATENT OFFICE

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EASY OPENING CONTAINER

Application filed June 28, 1930. Serial No. 464,657.

The invention relates to new and useful improvements in easy opening containers and more particularly to the features of structure that have to do with the reclosure of the container after the end has been released by tearing away the rip strip.

An object of the invention is to provide a container having an inserted reclosure collar which is firmly secured to the body of the container through the aid of holding lugs formed as a part of the inserted collar.

A further object of the invention is to provide a container having an inserted reclosure collar attached to the body of the container with a cooperating closure collar carried by the end released from the container body by tearing away the rip strip and wherein said depending collar is formed from the body blank and depends below the upper score line.

In the drawings:—

Fig. 1 is a view through the upper portion of the container embodying the improvements.

Fig. 2 is an enlarged vertical sectional view through a portion of the container.

Fig. 3 is a view similar to Fig. 2 but showing the rip strip torn away and the released end lifted from the body of the container.

The invention is directed to an easy opening container wherein the body portion is provided with score lines spaced from each other and arranged adjacent the upper end of the container for providing a rip strip which may be torn away for releasing the end from the container body. Within the container body is a reclosure collar which is secured to the container body by novel means and which projects upwardly above the lower score line so that the upper edge of the collar when the rip strip is torn away, forms the upper edge of the container body. This collar is secured to the container body by forming yieldingly spaced lugs or fingers in the collar member which may be projected outwardly so that the upper ends of these lugs engage beneath a shoulder on the container body. The container body is provided with an inwardly projecting bead which limits the inward movement in the container of this inserted collar and the lugs prevent any outward movement of the collar in the container body. The body blank is folded back on itself so as to provide a depending collar which extends below the upper score line. This folded wall of the container body is bent into a flange and the end is double seamed to the flange. The folded back portion is on the inside of the container and extends downwardly over the inserted collar attached to the body of the container.

Referring more in detail to the drawings, the container includes a body portion 1 to which an end 2 is secured by a double seam 3. There is a similar end 4 at the lower end of the container body which is secured thereto by a double seam 5. The container body is provided with an inwardly projecting bead 6 and also with an inwardly projecting portion 7 which forms a shoulder 8. The blank from which the body of the container is formed is made of greater width than the desired height of the container and this blank is folded back flat against the side of the blank which is to form the inside of the container. The folded back portion is indicated at 9 in the drawings. This forms a wall of double thickness at the upper end of the container body. The wall nevertheless is formed into a flange and the flange is rolled into the double seam 3. The body is provided with a score line 10 formed in the wall of the container body just above the shoulder 8. It is also formed with a score line 11 formed in the container body just below the double seam 3. The portion 7 of the container body is bent inwardly so that its inner face is in alignment with the inner face of the folded back portion 9 of the body. This portion 9 depends below the score line 11 and when the rip strip 12 formed by the score

lines 10 and 11 is torn away, there is this depending flange 9 projecting below the score line 11 and which is used for forming a reclosure for the container. The score line 11 is close to the double seam 3 so that the projecting double seam protects the raw edge formed by the rupturing of the metal along the score line 11. The score line 10 is a slight distance above the shoulder 8 and this shoulder together with the inner collar protects the raw edge formed by the rupturing of the metal along the score line 10.

Within the container is a reclosure collar 13. This collar as shown is formed by rolling or drawing a piece of metal into proper shape for the collar so that the upper edge 14 of the collar is smooth and unbroken. The collar is provided with a series of lugs or fingers 15. These lugs or fingers are formed by cutting the metal of the collar along the sides of the lugs and at the end thereof. This leaves the lugs integral with the collar. The collar is preferably made of steel and the lugs are yielding. The collar is made of such size that when it is placed in the formed body of the container prior to the attaching of the ends thereto, the collar makes frictional gripping contact with the portion 7 of the container wall. The lower end of the collar when it is properly seated in the container body engages the bead 6 and the lugs 15 which have been sprung back into the openings in the collar from which the lugs were made will now spring outward underneath the shoulder 8 and thus firmly lock the collar to the container body.

While I have described a special form of collar, it will be understood that this means for securing the collar to the container body may be used with any type of reclosure collar. It will also be understood that while I have shown the inserted collar attached to the container body as used with a reclosure collar secured to the released end by being formed as a part of the body blank, other forms of collars may be provided than that herein shown. It will also be understood that this form of reclosure collar attached to the end that is released may be used in connection with other types of inserted collars.

The present invention is directed particularly to means for attaching the inserted collar to the body of the container regardless of the type of collar with which it is used. It is also directed to the formation of the collar attached to the releasable end from the blank which forms the body of the container regardless of the construction and manner of attaching the inserted collar to the body of the container. It is also obvious that minor changes of construction and the shaping of the parts may be made without departing from the spirit of the invention as set forth in the appended claims.

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

1. An easy opening container having score lines in the body adjacent one end thereof forming a rip strip, a reclosure collar disposed within the container body, said reclosure collar having spaced lugs cut from the body of the collar and normally projecting outwardly, said container body having spaced inwardly projecting shoulders, said lower shoulder being engaged by the lower edge of the collar and said upper shoulder being engaged by said lugs whereby said collar is held from endwise movement in the container.

2. An easy opening container having score lines in the body adjacent one end thereof forming a rip strip, said body at the upper end thereof being bent inwardly upon itself to form a double wall providing a depending flange extending below the upper score line, said double wall being flanged and having an end secured thereto by double seaming.

3. An easy opening container having score lines in the body adjacent one end thereof forming a rip strip said body at the upper end thereof being bent inwardly upon itself to form a double wall providing a depending flange extending below the upper score line, said double wall being flanged and having an end secured thereto by double seaming, an inserted collar attached to said container body blow the score lines and extending above and overlapping the lower portion of said depending flange.

4. An easy opening container having score lines in the body adjacent one end thereof forming a rip strip, said body at the upper end thereof being bent inwardly upon itself to form a double wall providing a depending flange extending below the upper score line, said double wall being flanged and having an end secured thereto by double seaming, a reclosure collar disposed within and attached to the body beneath the score lines, said collar extending above and overlapping the lower portion of said depending flange and said body having the wall thereof beneath said depending flange frictionally engaging the reclosure collar.

5. An easy opening container having score lines in the body adjacent one end thereof forming a rip strip, said body at the upper end thereof being bent inwardly upon itself to form a double wall providing a depending flange extending below the upper score line, said double wall being flanged and having an end secured thereto by double seaming, a reclosure collar disposed within and attached to the body beneath the score lines said collar extending above and overlapping the lower portion of said depending flange and said body having the wall thereof beneath said depending flange frictionally engaging the reclosure collar, said reclosure collar hav-

ing yielding lugs formed in the body thereof and adapted to engage a shoulder in the body wall of the container and disposed beneath said lower score line.

6. An easy opening container having score lines in the body adjacent one end thereof forming a rip strip, said body being bent inwardly upon itself to provide a depending collar extending below the upper score line and a cover seamed to the body above the upper score line.

In testimony whereof, I affix my signature.

WILLIAM F. PUNTE.