

Aug. 21, 1945.

W. F. PUNTE

2,383,274

RECLOSABLE METAL CONTAINER

Filed Oct. 4, 1943

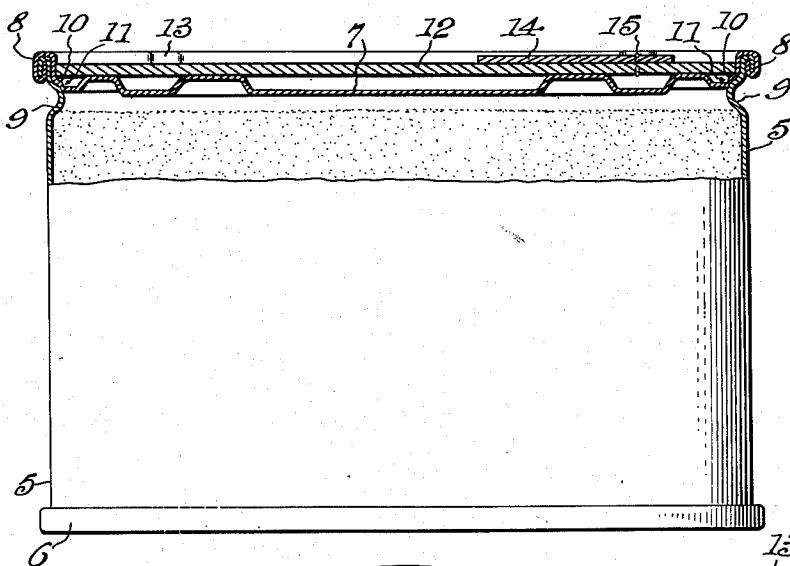


Fig. 1.

Fig. 2.

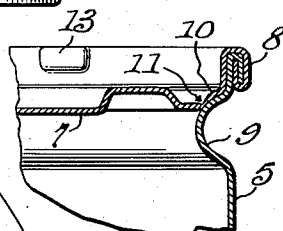
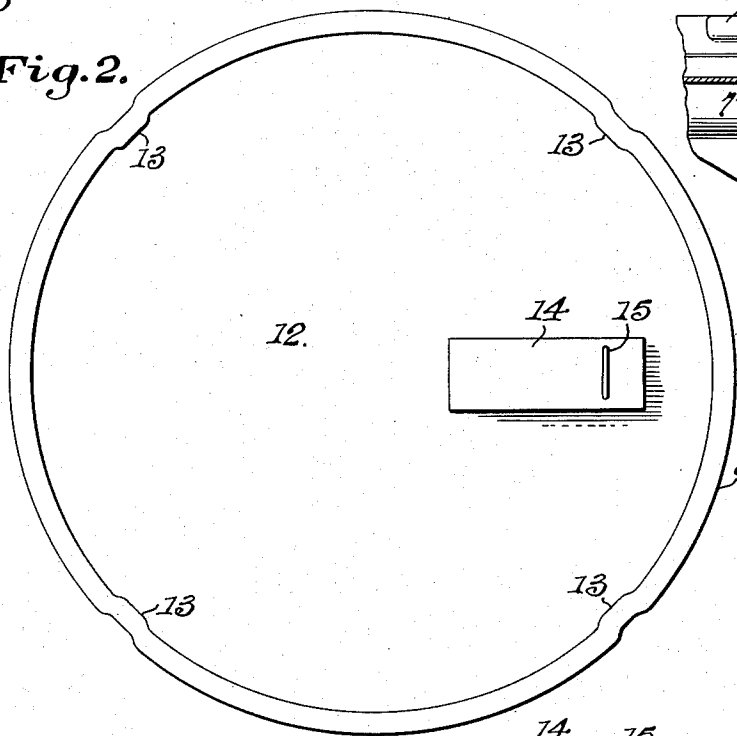


Fig. 4.

Fig. 5.

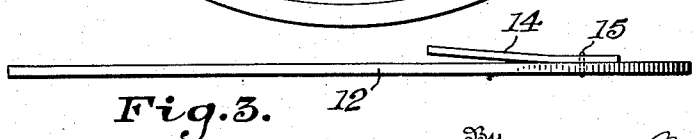
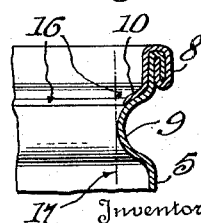


Fig. 3.

By

William F. Punte

Maxwell Porter & Miller

Attorneys

UNITED STATES PATENT OFFICE

2,383,274

RECLOSABLE METAL CONTAINER

William F. Punte, Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application October 4, 1943, Serial No. 504,943

5 Claims. (Cl. 220—48)

The invention relates generally to metallic container structures and primarily seeks to provide a simple inexpensively constructed container having a primary, readily removable metallic closure capable of maintaining a vacuum seal, and a secondary, paper disc closure that can be utilized for effecting reclosures of the container.

In its more detailed nature the invention seeks to provide a metallic container including a body having an inwardly directed bead adjacent its upper end, and a metallic closure having a peripheral portion directly contacting the upper portion of the bead and having a pinch score extending continuously therearound at a diameter greater than the internal diameter of said bead and weakening the closure so as to permit easy tearing out of the central part of the closure without destroying the effectiveness of the closure in sealing the desired evacuated condition in the container, the projection of the bead inwardly beyond the score line serving to shield the metal edge provided as a result of the tearing out of the central part of the closure from direct contact by the hand of a user of the container.

Another object of the invention is to provide a container structure of the character stated in which the metallic closure is secured to the container body by an upstanding double rolled seam which provides a depression in which the paper reclosure disc is received, said seam having indentations therein for frictionally retaining said disc.

With the above and other objects in view that will hereinafter appear, the nature of the invention will be more fully understood by following the detailed description, the appended claims and the several views illustrated in the accompanying drawing.

In the drawing:

Figure 1 is a part side elevation and part vertical cross sectional view illustrating a container embodying the invention.

Figure 2 is a plan view.

Figure 3 is an edge view of the removable and replaceable reclosure disc.

Figure 4 is an enlarged fragmentary sectional view, the reclosure disc being removed preparatory to the tearing out of the central portion of the primary metallic closure.

Figure 5 is a view similar to Figure 4, the central portion of the primary metallic closure having been removed and the reclosure disc also being removed.

In the example of embodiment of the container herein disclosed said container includes a

body 5 and an end closure 6 at its lower end, said end closure preferably being secured in the usual manner as by a double rolled seam.

The container structure also includes a primary metallic top closure 7 preferably secured by an upstanding rolled double seam 8 in the usual manner. Just below the seam 8 the body 5 is provided with a large inwardly directed bead 9, and it will be noted by reference to Figures 1, 4 and 5 of the drawing that the peripheral portion of the primary closure conforms in part to the upper surface of the bead as at 10 so as to lie snugly thereagainst. The peripheral portion of the primary metallic closure 7 is provided with a continuous pinch score 11 placed outwardly of or at a larger diameter than the inner diameter of the bead 9. The pinch score serves to weaken the primary closure 7 an amount sufficient to permit easy tearing out of the central portion of this closure without destroying the effectiveness of the closure in sealing the container.

It is to be understood that the container preferably is to be used for coffee, shortening material or any products which are packed in vacuum.

A paper reclosure disc 12 is inserted within the upstanding bead 8 and over the primary closure 7 in the manner clearly illustrated in Figure 1, and the bead 8 is inwardly indented as at 13 to facilitate frictional retention of the disc within said bead. The disc is provided with a lift tab 14 secured thereto by a staple 15 and which facilitates removal of the disc from its frictional mounting.

The container and its vacuum packed product is marketed in the condition illustrated in Figures 1 and 2 of the drawing, and when it is desired to open the container the user grasps the lift tab 14 and removes the reclosure disc 12 from its frictional mounting within the bead 8. By reason of the provision of the pinch score 11 it is an easy matter to displace or tear out the central portion of the primary metallic closure 7, and by reason of the placement of the pinch score outwardly of the inner diameter of the bead 9 the raw edge 16 provided by this tearing out of the central portion of the primary closure is effectively shielded by the bead. In Figure 5 the dot and dash line 17 clearly indicates how the inner extremity of the bead 9 extends inwardly beyond the edge 16 of the portion of the primary closure which remains after the tearing out of the central portion thereof and shields said edge against damaging contact by a hand of a user of the container.

After the container has been opened in the

manner hereinbefore described, the reclosure disc 12 can be applied to its frictional mounting to effect a reclosure of the container, said disc being frictionally retained by the detents 13 and resting upon the peripheral portion of the primary closure remaining after the tearing out of the central portion thereof.

By forming the pinch score so as to effect a downward displacement of the central body portion of the primary metallic closure 7 in the manner clearly illustrated in Figure 4, the sharp edge resulting from the tearing out of said central portion is placed so that it will merge downwardly into the inwardly and downwardly curving upper portion of the bead 9 in the manner clearly illustrated in Figure 5 and thereby additionally minimize the possibility of damaging contact of a hand of a user with said edge.

It is of course to be understood that the details of structure and the arrangement of parts may be variously changed and modified without departing from the spirit and scope of the invention.

I claim:

1. In a metallic container of the character described, a body having an inwardly directed bead adjacent an end thereof, and a metal closure affixed to said end by an upstanding rolled seam, said closure having a peripheral portion directly contacting the upper portion of the bead and a pinch score in said peripheral portion extending continuously therearound at a diameter greater than the internal diameter of said bead and weakening the closure so as to permit easy tearing out of the central part of the closure without destroying the effectiveness of the closure in the original sealing of the container, the projection of the bead inwardly beyond the score serving to shield the metal edge provided as a result of the tearing out of the central part of said closure from direct contact by a hand of a user of the container.

2. In a metallic container of the character described, a body having an inwardly directed bead adjacent an end thereof, a primary metallic closure affixed to said end by an upstanding rolled seam, said closure having a peripheral portion directly contacting the upper portion of the bead and a pinch score in said peripheral portion extending continuously therearound at a diameter greater than the internal diameter of said bead and weakening the closure so as to permit easy tearing out of the central part of the closure without destroying the effectiveness of the closure in the original sealing of the container, the projection of the bead inwardly beyond the score serving to shield the metal edge provided

as a result of the tearing out of the central part of said closure from direct contact by a hand of a user of the container, and a lift out disc frictionally retainable as a reclosure member within said seam in position for being supported by the portion of the primary closure contacting said bead after the tearing out of said central portion.

3. In a metallic container of the character described, a body having an inwardly directed bead adjacent an end thereof, a primary metallic closure affixed to said end by an upstanding rolled seam, said closure having a peripheral portion directly contacting the upper portion of the bead and a pinch score in said peripheral portion extending continuously therearound at a diameter greater than the internal diameter of said bead and weakening the closure so as to permit easy tearing out of the central part of the closure without destroying the effectiveness of the closure in the original sealing of the container, the projection of the bead inwardly beyond the score serving to shield the metal edge provided as a result of the tearing out of the central part of said closure from direct contact by a hand of a user of the container, and a lift out disc frictionally retainable as a reclosure member within said seam in position for being supported by the portion of the primary closure contacting said bead after the tearing out of said central portion, said seam being equipped with a plurality of inwardly projecting detents adapted to engage and frictionally retain the reclosure disc.

4. In a metallic container of the character described, a body, a metallic primary closure secured by an upstanding rolled seam to an end of said body, said closure having a peripheral wall extending downwardly and inwardly from said rolled seam and said closure also having a pinch score adjacent the base of the inwardly extending portion and weakening the closure so as to permit easy tearing out of the central part thereof without destroying the effectiveness of the closure in initially sealing the container, and a flat non-metallic lift out disk frictionally contacting at its periphery within and against said upstanding seam adjacent the base of the inwardly extending portion and retainable as a reclosure member within said seam in position for being supported by the portion of the primary closure remaining after the tearing out of said central portion.

5. A container structure as defined in claim 4 in which the downwardly extending portion of the primary closure is equipped with a plurality of inwardly projecting detents adapted to engage and frictionally retain the reclosure disk.

WILLIAM F. PUNTE.