Feb. 8, 1938. F. O'NEILL, JR 2,107,957

CONTAINER COVER

Filed July 27, 1933

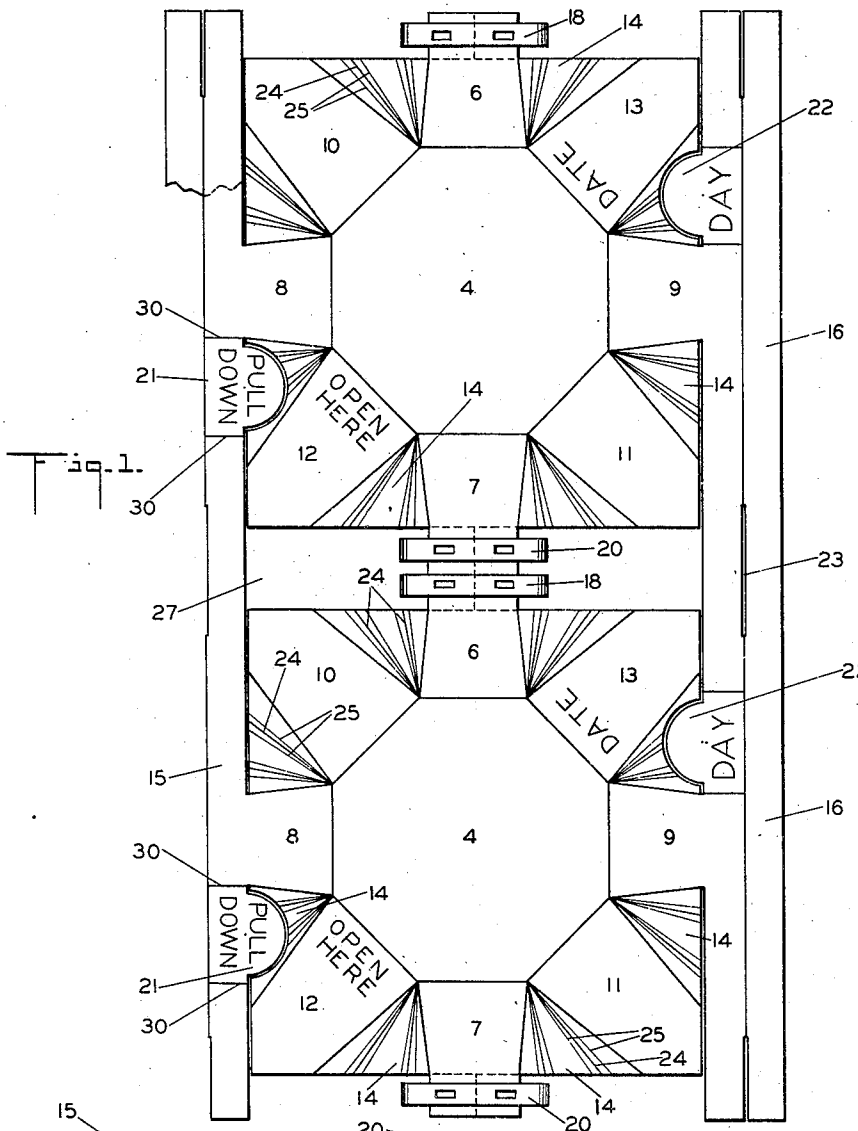


Fig. 1.

Fig. 2.

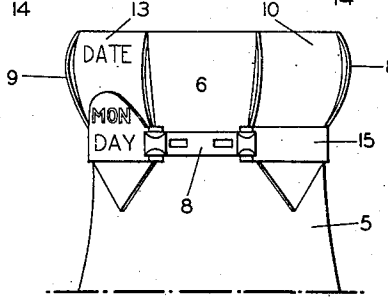


Fig. 3.

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CONTAINER COVER

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10 Claims. (Cl. 215—38)

This invention relates to container covers, and has for its principal object to provide a container cover which will effect a durable seal of the container which at the same time may be readily removed by the consumer, but in such a manner as to destroy the seal; and in short to provide a tamper-proof seal.

Other objects will be apparent as the following description proceeds, the reference being had to the accompanying drawing, in which

Figure 1 is a plan view of a pair of container covers according to the present embodiment of the present invention;

Figure 2 is an end elevation of the same; and

Figure 3 is an elevation of a container having the container cover according to the present invention, applied thereto.

The container cover comprises a central body 4 adapted to overlie the mouth of the container 5, and a surrounding area which is adapted to be collapsed about the neck of the container. In the form shown this surrounding area comprises a plurality of fold down panels 6, 7, 8, 9, 10, 11, 12, 13, and a plurality of webs 14 therebetween.

A pair of opposite panels 8 and 9 have lateral extensions forming marginal bands 15 and 16. These bands 15 and 16 are continuous from one blank to the other as shown in Figure 1.

Another pair of opposite panels 6 and 7 have metal clips 18 and 20 secured thereto. In the form shown, each of these panels 6 and 7 has an outer end portion of double thickness, and the clips 18 and 20 are stapled through this doubled thickness.

The blank is scored along the outline of the central body portion 4 and is further scored along the outlines of the fold down panels which radiate therefrom. The blank is also cut longitudinally to separate the lateral extensions which form the band portions 15 and 16, from the adjacent webs 14 and the respective adjacent fold down panels.

One of the extensions which forms the band portion 15 has a lateral extension which forms a tab 21, the material forming this tab being cut out from the adjacent web 14. Similarly one of the lateral extensions which forms the band portion 16 has formed integral therewith a tab 22 which is similarly cut from the material of the adjacent web 14. The ends of the band portions 15 and 16 are split or slotted along the longitudinal center lines thereof as at 23.

In manufacturing the container covers a strip or ribbon of blank material, preferably paper is printed as desired, preferably with three color printing so as to present an attractive appearance. The blank is then scored along the outline of the central body portion 4 and is further scored along the outlines of the fold down panels which radiate therefrom. At this time the webs 14 are scored along the converging score lines 24 and the additional score lines 25 on each side thereof. The blank is then cut to remove the rectangles 27 from between the panel 6 of the cover, which joins the panel 7 of the other cover, and the marginal bands 15 and 16. At the same time, the slots 23 are formed, along with the cuts which separate the extensions which form these bands, from the inner adjacent portions of the blank.

The outer halves of the margins 15 and 16 are now folded inwardly or doubled in along the longitudinal center lines thereof between the slots 23. At the same time the doubled ends of the panels 6 and 7 are formed, after which the metal clips 18 and 20 are stapled thereto.

As a final operation of completing the blank, the webs 14 are depressed along the score lines 24 thereof, which brings the center portion of the web substantially into the plane of the doubled end portion of the marginal bands 15 and 16. At the same time the ends of the metal clips 18 and 20 are curled downward in the same direction. The strip or ribbon of completed blanks is then subjected to a waterproofing operation such as paraffining.

It should be noted that the panel 12 has the words "Open here" printed thereon and the tab 21 is printed with the words "Pull down". Similarly the panel 13 has the word "Date" printed thereon while the tab 22 is blank, but the part of the margin 16 immediately thereunder is printed with the word "Day". The marginal band 15 before the same is doubled in, is scored at 30, on both sides of the tab 21 which bears the words "Pull down".

The strip of container covers hereinbefore described is fed to a capping machine, in which the marginal bands 15 and 16 are severed to separate the individual blanks. In this machine the tabs 22 are perforated to indicate the first syllable of a selected day of the week. The central body portion 4 is applied over the mouth of the container and the surrounding area is collapsed about the container neck. During this operation the webs 14 are forced inwardly and folded laterally about the scores 24. However, if a larger or smaller container is employed the webs 14 will be folded along the container score marks 25.

The fold down panels are brought into substantial contacting relation as shown in Figure 3, the webs 14 being folded thereunder. The band portions 15 and 16 are now wrapped around the adjacent panels 10, 11, 12 and 13 so that the split doubled ends thereof overlap the ends of the metal clips 18 and 20. These overlapped ends are rolled together in the manner described in my prior Patent No. 1,828,906, issued October 27th, 1931. The doubled marginal bands 15 and 16 are of course stronger than a single thickness, and the slots 23 separate the doubled ends so that they may slide relative to each other and not interfere with the rolling operation.

It should be noted that when the cover is applied as described, the tab 21 overlies the panel 12 so that the words "Pull down" appear under the words "Open here". Also the tab 22 overlies the panel 13 so that the first syllable of the day of the week perforated therein, along with the last syllable "Day" printed on the band 16, appears under the word "Date".

To open the container cover it is only necessary to grasp the tab 21 and pull the same downwardly which will tear the material of the blank along the adjacent score lines and thus sever the marginal band 15 of the material, which of course effectually prevents the cover from being replaced after the contents of the container have been tampered with.

The invention embraces such embodiments of the disclosed ideas as fall within the scope of the appended claims.

I claim:

1. A container cover blank comprising a central body portion, fold down panels integral therewith, band portions integral with an opposed pair of said fold down panels, one of said band portions having a lateral tab integral therewith, said band portion being scored on both sides of said tab.

2. A container blank comprising a central body portion, a collapsible area thereabout, strips integral with opposite sides of said area and folded to double thickness, one of said strips having a lateral tab integral therewith and being transversely scored on at least one side of said tab.

3. A container cover blank comprising a substantially square element scored to define a central body portion, fold down panels extending therefrom with webs therebetween, said blank being cut parallel to two sides to form lateral extensions of a pair of opposite panels, one of said cuts being extended inwardly into one of said webs to form a lateral tab on one of said extensions.

4. A strip of container cover blanks having holes therein on each side of the center of the strip and between the side edges thereof, leaving central longitudinal tabs of adjacent covers and continuous marginal band portions, and clips secured transversely to said longitudinal tabs between said continuous marginal band portions.

5. A strip of consecutive container cover blanks each comprising a central body portion adapted to overlie the mouth of a container, and fold down portions integral with said central portion and adapted to be folded down about the container neck, said strip of blanks being partly cut away on each side of the longitudinal centerline thereof between adjacent blanks leaving therebetween projecting ends of longitudinal fold down portions, and a pair of metal clips located on the longitudinal centerline of said blank and respectively secured to said projecting longitudinal ends and extending transversely thereof with the ends of said metal clips projecting partly over said cut away parts.

6. A strip of consecutive container cover blanks each comprising a central body portion adapted to overlie the mouth of a container, and fold down portions integral with said central portion and adapted to be folded down about the container neck, said strip of blanks having cut away portions on each side of the longitudinal centerline thereof leaving outer marginal band portions integral with the transverse fold down portions, and also leaving projecting ends of longitudinal fold down portions between said cut away portions, and a pair of metal clips respectively secured to said projecting longitudinal ends and extending transversely thereof with the ends of said metal clips projecting partly over said cut away portions, said strip being adapted to be severed to part said covers between said pair of clips, whereby corresponding ends of the band portions of the same blank may be rolled together with corresponding ends of clips of the same blank to form a constricted band about the container neck.

7. A strip of consecutive container cover blanks each comprising a central body portion adapted to overlie the mouth of a container and fold down portions integral with said central portion and adapted to be folded down about the container neck, said strip of blanks having holes therein between the longitudinal centerline thereof and each side edge thereof leaving continuous marginal band portions integral with the transverse fold down portions, and projecting ends therebetween of longitudinal fold down portions, and a pair of metal clips respectively secured to said projecting longitudinal ends and extending transversely thereof with the ends of said metal clips projecting partly over said holes, said continuous band portions being adapted to be severed to part said covers, and said longitudinal ends being adapted to be separated between said pair of clips to go with separate respective blanks, whereby corresponding severed ends of the band portions of the same blank may be rolled together with the projecting ends of said metal clips respectively to form a constricted band about the container neck.

8. A container cover having a central portion adapted to overlie the mouth of a container, and fold down portions integral with said central portion and adapted to be folded down about the container neck, the lower parts respectively of a pair of opposite fold down portions having lateral extensions, said lower parts being folded upward and inward to lie against the container neck, thereby forming band portions the upper edge of the inner folds of which underlie the shoulder of the bead around the container neck, and metal clips carried by fold down portions between said doubled band portions, the lateral extension ends of said band portions being split to sever the inward and upward folded part from the remainder thereof for a portion of their common length to permit said severed parts to slide with respect to each other when rolled together with the ends of said metal clips to form with said doubled band portions a constricted band about the container neck.

9. A strip of container cover blanks each comprising a central portion adapted to overlie the mouth of a container, fold down panels integral with said central portion, webs between and connecting said panels and scored for folding lat-

erally with respect to said panels, whereby said panels may be folded down over said webs about the container neck, said strip of blanks having holes on each side of the longitudinal centerline thereof leaving therebetween projecting ends of longitudinal fold down panels of adjacent blanks, a pair of metal clips respectively secured to said projecting panel ends and extending transversely thereof, the ends of said clips projecting partly over said holes and there partly curled down, and said scored portions of said webs being depressed in the same direction in which said clip ends are curled.

10. A strip of blank material adapted to form container covers, said strip being scored to define central body portions with panels extending therefrom, said strip being cut longitudinally to define continuous marginal bands integral with pairs of opposite panels of each body portion, clips secured to pairs of opposite panels between said marginal bands, said marginal bands being adapted to be severed at points between each adjacent pair of said central body portions whereby said central body portion may overlie the mouth of a container, said panels may be folded down onto the container neck, and the severed ends of said bands may be rolled up with the ends of said clips to form a constricted band about the container neck.

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