Feb. 10, 1925. 1,525,652

F. W. LEPPERT

CONTAINER

Filed April 26, 1924 2 Sheets-Sheet 1

Fig. 1.

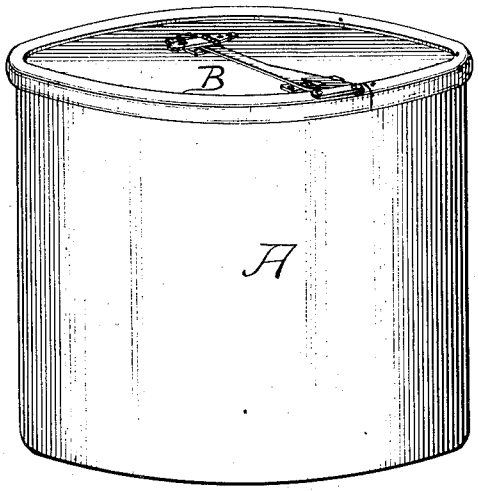
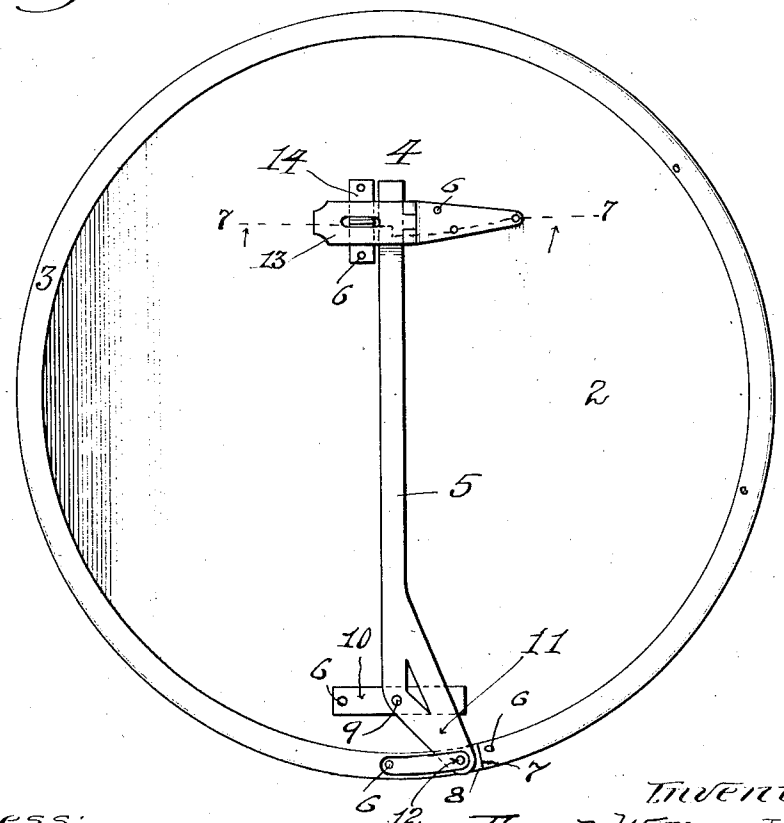


Fig. 2.



Witness:

Stephen Hebron

Inventor:

Frank William Leppert

by Taylor & Brown

his Atty:

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Fig. 3.

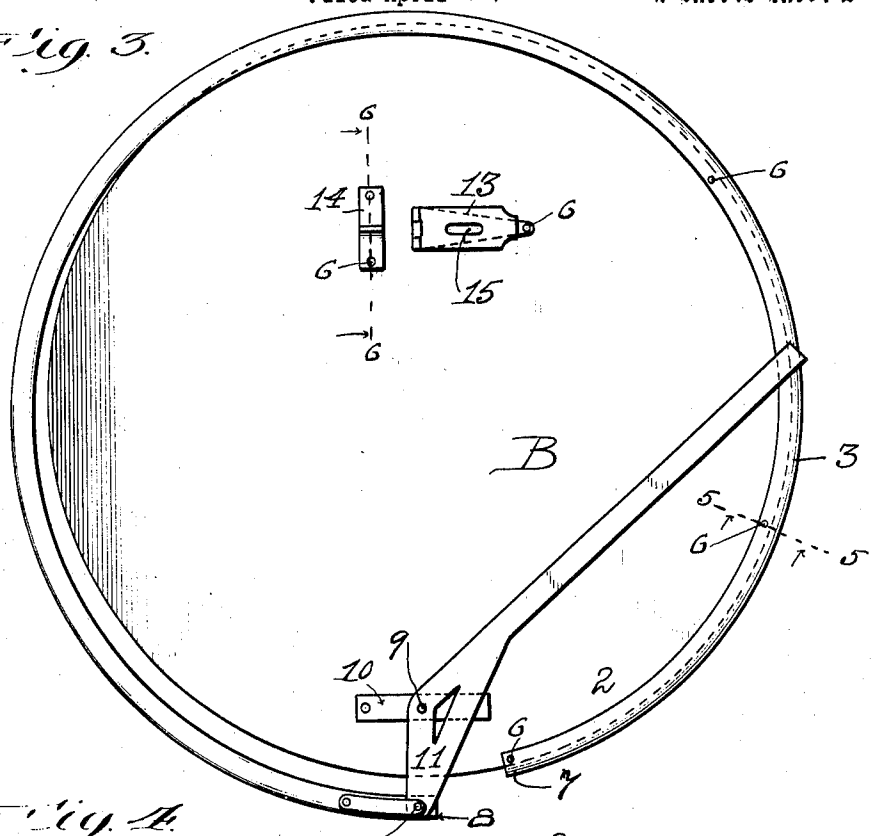


Fig. 4.

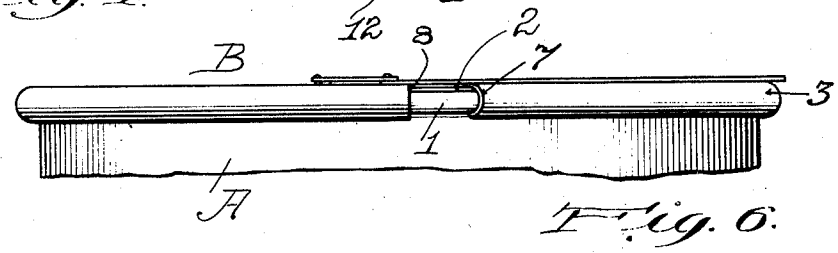


Fig. 6.

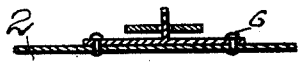


Fig. 5.

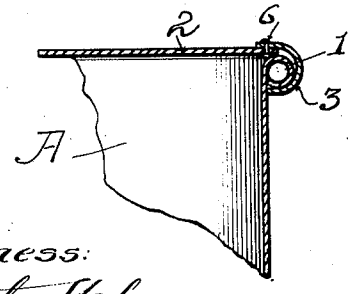
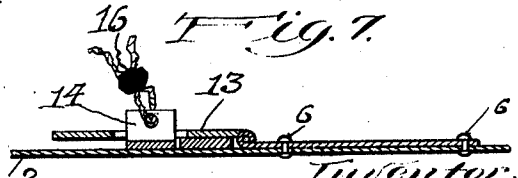


Fig. 7.



Witness:

Stephen Hebra

Inventor:

Frank William Leppert

by Wyld & Browne his Attys.

Patented Feb. 10, 1925. 1,525,652

UNITED STATES PATENT OFFICE.

FRANK W. LEPPERT, OF DUBUQUE, IOWA, ASSIGNOR TO WALTER C. BOWER, OF DUBUQUE, IOWA, DOING BUSINESS AS DUBUQUE STEEL PRODUCTS COMPANY.

CONTAINER.

Application filed April 26, 1924. Serial No. 709,082.

To all whom it may concern:

Be it known that I, FRANK W. LEPPERT, a citizen of the United States, residing at Dubuque, in the county of Dubuque and State of Iowa, have invented certain new and useful Improvements in Containers, of which the following is a specification, reference being had to the accompanying drawings, and to the reference characters marked thereon, which form a part of this specification.

This invention relates to containers, and more particularly to metal covers therefor, adapted to be quickly applied and locked to the container and as easily removed, and which are capable of repeated use as desired.

The nature of the invention and its advantages will be manifest as I proceed with my specification.

One form of embodiment of my invention is illustrated in the accompanying drawings, in which Fig. 1 is a view in perspective of a container with the cover applied thereto.

Fig. 2 is a top plan view, upon a larger scale, of the same.

Fig. 3 is a top plan view showing the cover applied to the top of the container in position ready to be locked thereon.

Fig. 4 is a side elevation of the upper portion of the container with the cover thereon in the position shown in Fig. 3,—that is, in position ready to be secured to the container.

Fig. 5 is a vertical sectional view through a portion of the cover and the container body, taken in the vertical plane indicated by the dotted line 5—5 of Fig. 3.

Fig. 6 is a sectional view of a detail, taken in the vertical plane indicated by the dotted line 6—6 of Fig. 3.

Fig. 7 is a sectional view of the lever locking arrangement, taken in the vertical plane indicated by the dotted line 7—7 of Fig. 2.

Referring to said drawings, the letter A represents any suitable container, cylindrical in shape and of plain or corrugated metal, having an open top margin defined by a rolled bead 1, of any conventional type. B indicates the cover as a whole, consisting of a disc member 2 adapted to rest upon the bead 1, a ring member 3, a two-part locking member 4 and a movable arm member 5. These several members are operatively secured together in any convenient manner but preferably by means of rivets 6, as shown.

The ring member 3 will be shaped complemental to the bead 1. In this instance, the bead being round, the ring will be semicircular in cross section as plainly indicated in Figs. 4 and 5, so that it may encircle the bead 1. The member 3 is a split ring, one end 7 being riveted or otherwise secured to the disc member 2 and the other end 8 being free to move, and to be brought up against the end 7 by the movement of the operating member 5. This member is a bell crank lever arm which is pivotally secured intermediate its ends at 9 to the disc member 2 and preferably in connection with a reinforcing plate 10. The short end arm 11 of the lever member 5 is pivotally mounted at 12 to the movable end 8 of the ring member 3.

The locking member 4 comprises a hinged hasp 13 and a staple 14 secured as stated to the disc member 2, and so spaced apart as to leave room for the handle end of the lever 5. Thus when the lever 5 is swung into the position shown in Figs. 1 and 2, it will rest between the staple 14 and the hasp 13. The swinging portion of the latter may then be brought over the lever 5 and, by means of its slot 15, straddle the upright portion of the staple 14.

Any securing means such as a Yale or other lock or a shipping seal 16 of familiar type may then be inserted through the staple 14, thus locking the parts together as shown in Fig. 7.

To apply my cover to a container A which has been filled with the merchandise to be shipped, the parts being in the positions indicated in Fig. 3, the disc member 2 is laid flat upon the bead 1 and the ring member brought into juxtaposition surrounding the bead 1 completely at the end 7 and more or less so throughout about half of its length. Then the handle portion of the lever arm 5 is grasped and moved on its pivot or fulcrum until it is brought to rest between the hasp 13 and staple 14. This swinging movement will draw the ring circumferentially about the bead 1, its end 8 touching the end 7 and causing the ring to firmly hold the disc 2 upon the bead 1. Then the lever 5 is locked in position as before stated.

It will be understood that to remove the merchandise from the container A, the cover B may be removed as a unit, since the disc, ring, lever and locking device are all secured together. Thus there is no occasion to mutilate or injure the container or the cover and the two may be used over and over again until actually worn out.

It will also be understood that various modifications in the shape, size and arrangement of the several parts may be made without departing from the principle of my invention.

I claim as my invention:

1. A cover for cylindrical containers, comprising a disc member, a circumferential split ring member, one end of the ring being fixedly secured to said disc, and operative means connecting the disc and the free end of the ring adapted to bring said ends together and thereby secure the cover as a whole to a container.

2. A removable cover for a cylindrical container provided at its open end with a marginal bead or shoulder, comprising a disc member, a circumferential split ring member fixedly secured in part to the margin of the said disc and complementally formed throughout its fixed and floating portions to engage said bead or shoulder, a lever fulcrumed between its ends upon said disc, its short arm being pivotally connected to the floating end of the ring, and a staple and hasp on the disc adapted to engage and hold the lever in a fixed position.

3. A removable closure for cylindrical containers having a circumferentially located bead or shoulder at its open end, comprising a circular disc member adapted to rest upon said shoulder, a split ring member of resilient metal the inner surface of which is complemental in shape to the exterior surface of the bead or shoulder, said ring member being fixedly secured throughout a portion of its length to the disc member to form a depending, circumferential flange therefor, the floating end of the ring being connected to a lever and adapted when brought into final position to complete the circumferential flange, said lever being fulcrumed upon said disc, and means for holding the lever in a fixed position.

4. A cover for cylindrical containers comprising a flat plate of metal, circular or disc shaped, a split ring member of resilient metal of semi-cylindrical shape in cross-section, adapted to form a downwardly projecting circumferential flange for the disc, a portion of the ring only being fixedly secured to the disc, a flat metal lever arm fulcrumed between its ends to the disc and having its shorter arm pivotally connected to the free end of the ring, and a hasp and staple secured to the disc and adapted to engage the long arm of the lever and hold it in a predetermined position.

5. A cylindrical metal container having its upper open end provided with an exteriorly located annular bead or shoulder, combined with a closure cover comprising a flat metal disc, a circumferential, downwardly projecting, split flange ring on the cover complemental in shape to the said bead or shoulder, and a lever fulcrumed on the disc, said flange being secured in part to the disc and in part to the lever, and means on the disc for retaining the lever in a predetermined position.

In testimony that I claim the foregoing as my invention, I affix my signature, in the presence of two witnesses, this 23 day of April, 1924.

FRANK W. LEPPERT.

Witnesses:

ROBT. W. CLEWELL,

W. C. BOWER.