

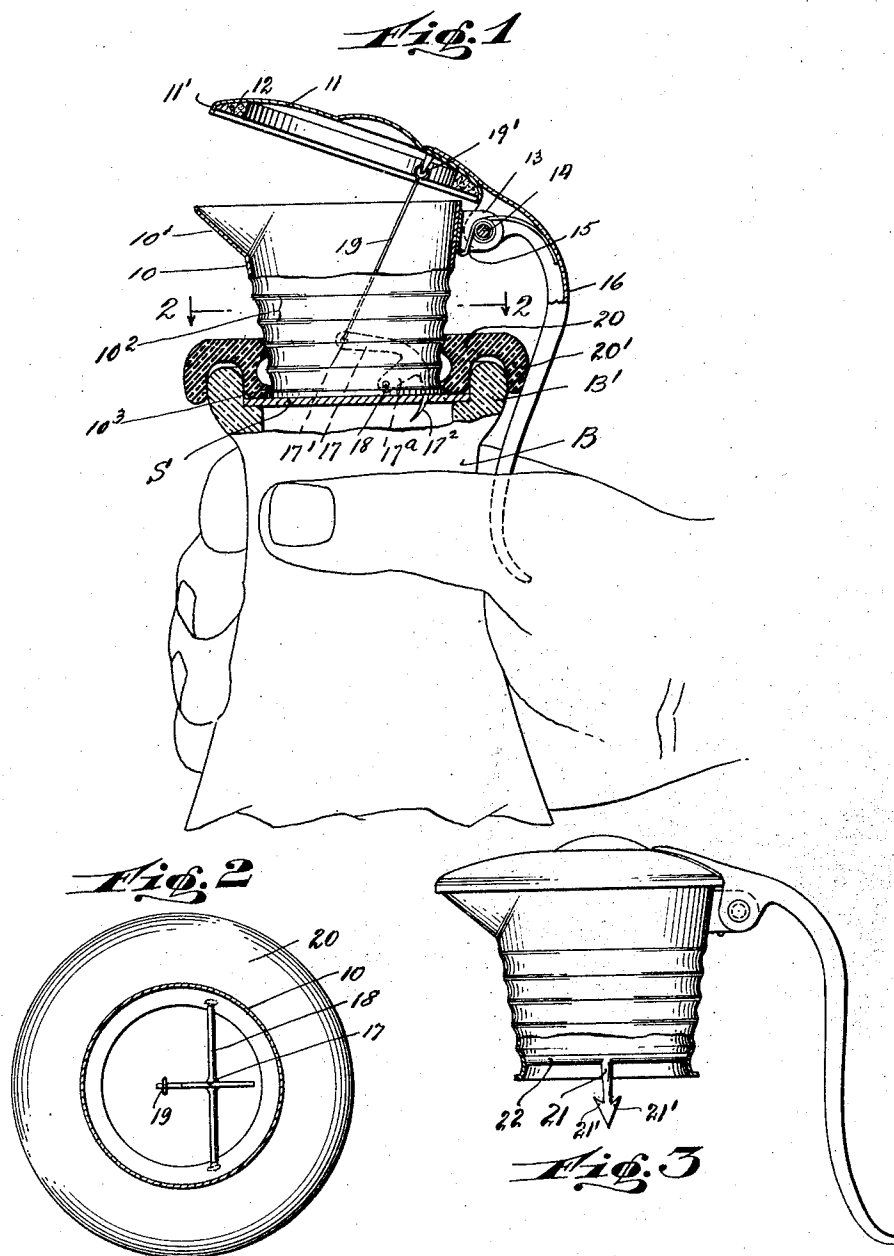
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BOTTLE CLOSURE WITH MEANS FOR REMOVING THE PAPER SEALS

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BOTTLE CLOSURE WITH MEANS FOR REMOVING THE PAPER SEALS

Continuation of application Serial No. 529,200, filed April 10, 1931. This application filed September 28, 1931. Serial No. 565,462.

This application is a continuation of my application Serial Number 529,200 filed April 10, 1931, and relates to a household utensil and more particularly to a cover for milk bottles or the like.

Much difficulty is often experienced in removing covers commonly used in milk bottles. Forks, knives or other tools must be employed for that purpose as a result of which the cover is mutilated and ceases to close tightly.

The object of this invention is to provide an improved construction of such utensil which will form a combined durable sanitary tight closure for a milk bottle or the like and a dispenser for the contents thereof.

A still further object is to so construct said dispenser that it can be easily accessible on the inside for cleansing.

With these and other objects in view my invention consists in the novel construction, combination and arrangement of parts as will be hereinafter more fully described and defined in the appended claims.

In the drawing Fig. 1 is a vertical section of my device shown as applied to a conventional milk bottle;

Fig. 2 is a cross section on line 2—2 of Fig. 1; and

Fig. 3 is a similar section to Fig. 1 of a modified construction thereof.

In the drawing B denotes the container which in present example is in form of a conventional milk bottle having the usual paper seal S.

The device consists of a hollow body 10 which is open on top and bottom and preferably may have the shape of an inverted frustated cone or a cylinder so that it may be conveniently accessible for cleaning purposes. At its open top this body is formed with a marginal spout 10' and is adapted to be closed by a movable lid 11, which is slightly larger in diameter than that of the top of body 10. The circumferential edge 11' of said lid may be bent or curved downwardly so as to embrace the upper edge of the body as well as the spout 10' in closed position. The inner face of said edge 11' may have attached to it a suitable packing or tightening ring 12 of rubber, cork or other suitable ma-

terial or other sealing means. Provided at the upper end of the body diametrically opposite the spout 10' and suitably fixed to the outer part of said body are ears 13 or the like to which the cap or lid 11 is suitably pivoted or hinged as at 14. A spring 15 is provided to continuously urge said lid into closing position. Adjacent the pivotal point the lid is formed with or has attached to it a downwardly projecting suitably curved arm 16 adapted to extend below the lower edge of the body 10 so that when the dispenser is fitted in the neck of the bottle the lid can be opened most conveniently by the palm of the hand of the user, as is shown in Fig. 1, while the fingers of the same hand grasp the neck of the bottle. Thus the manipulation of the lid does not necessitate the use of both hands of the user.

17 denotes a piercing pin or member for removing the paper cover S generally used as an original seal in milk bottles. This piercing pin is in the form of a fishing hook and is provided with an arm 17^a projecting from a point intermediate its ends. The forward end of said arm 17^a is fixed to a wire or pin 18 rotatively borne in the walls of the body 10 and extending transversely through the latter adjacent the lower edge thereof. The rear end 17' of said hooked member 17 is pivotally connected to one end of a wire 19 whose other end is pivoted to the inner face of the lid, as at 19'. When the lid is in closed position the hook is so positioned that its pointed or piercing end 17² is slightly projecting below the lower edge of the body. When the lid is tilted into open position the piercing pin will swing in the arc of a circle around the axis of the wire 18 as its center and pierce the paper seal S of the bottle B, so that when said dispensing body 10 is lifted from the bottle the paper seal picked up by the hook 17 will also be removed.

The conical body is provided with a plurality of circumferential annular beads or ribs 10² and its lower edge is slightly flaring to form a flange or stop 10³. Tightly but displaceably mounted around the lower outer part of the body is a washer 20 of rubber, cork or other suitable material which

is of conical cross section and is formed at its upper edge with an outwardly projecting downwardly curved flange 20'.

The conical portion of said washer when the device is applied to the bottle B as shown in the drawing is adapted to be passed into the mouth of the neck and tightly hold the device in position of use, while the flange 20' is adapted to engage around the upper beaded edge B' of the neck portion of the bottle and serve as a hood preventing the spilling of the contents, while the dispenser is passed into the neck for the removal of the seal S and to serve as a seal after the device is restored on the bottle to serve as a dispenser.

In the modification shown in Fig. 3, the piercing member 21 is in form of a short arrow shaped, pointed piece of wire having inclined barbs 21' projecting laterally and upwardly above the pointed end thereof. The upper end of said element 21 is fixed to a cross rod or wire 22 fixed in the lower part of the inner face of the conical body 10. The pointed barbed end of said member 21 is adapted to project below the lower edge of the body, so that when said body 10 is positioned into the neck of the bottle its piercer will pierce the paper seal and with its barbs 21' pick up the latter when the body is removed from the bottle.

Since various other modifications may be made in my device without departing from the principle of my invention I do not wish to restrict myself to the details shown and described.

What I claim is:—

1. A removable bottle closure, comprising a hollow body having a movable lid, a piercing member pivotally mounted at the bottom of said body so as to swing in the arc of a circle and operatively connected to the lid, so that when said lid is opened while the device is in the neck of a bottle the paper seal thereof will be pierced and picked up when said device is removed.

2. In a device as per claim 1, in which the piercer is in form of a barbed wire fixed in said body and adapted to project downwardly below the lower edge of said body.

3. A device for milk bottles or the like, consisting of a hollow body capable of engaging the mouth portion of the bottle, a movable lid on said body, and a piercer pivoted in said hollow body and operatively connected to said movable lid so that, when said device is applied to the bottle and said movable lid is opened, said piercer will pierce the paper seal of said bottle and withdraw it from the latter when the device is removed.

In testimony whereof, I affix my signature.

ROBERT HAGEBUSCH.