

F. V. PHILLIPS,
BOTTLE CAP.
APPLICATION FILED MAR. 8, 1919.

1,344,516.

Patented June 22, 1920.

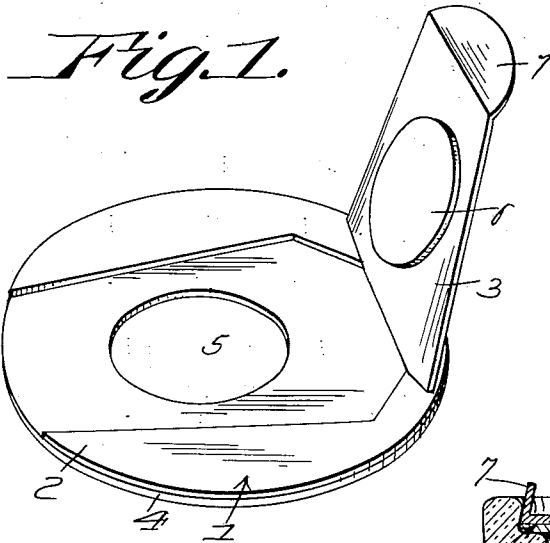
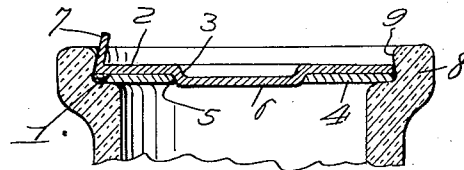


Fig. 2.

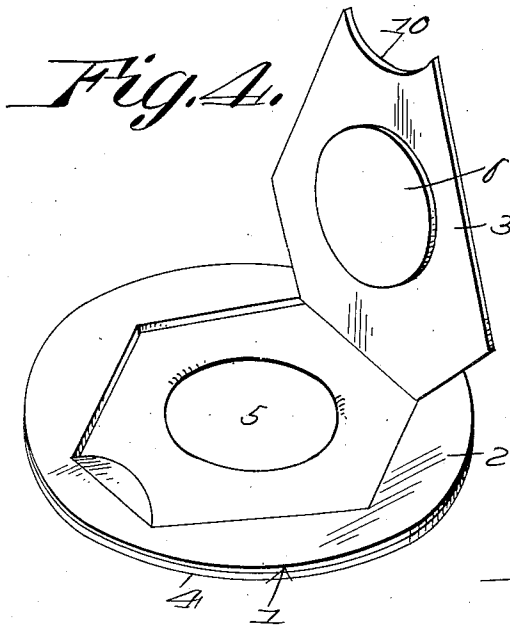
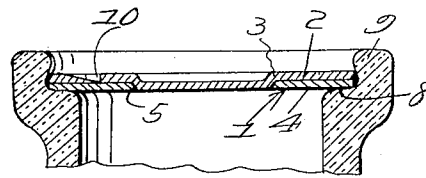


Fig. 3.

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BOTTLE-CAP.

1,344,516.

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To all whom it may concern:

Be it known that I, FRED V. PHILLIPS, a citizen of the United States, residing at Rome, in the county of Oneida and State of New York, have invented new and useful Improvements in Bottle-Caps, of which the following is a specification.

The object of the invention is to provide a destructible cap for milk bottles which is provided with a pouring opening or perforation, so that, in the event, it is not desired to empty the bottle which the cap closes, the contents thereof may be removed in specified quantities as desired. To this end the cap is formed with a flap which carries a plug or stopper designed to close the perforation or hole and this flap is used as a supplemental cover unless the contents of the bottle is removed at once, when the whole cap may be lifted out of the mouth of the bottle and destroyed or thrown away.

A further object of the invention is to provide a device of the character mentioned which is simple in construction, durable and effective in operation and inexpensive to manufacture.

As illustrated and described, a specific embodiment of the invention is adhered to, but to this embodiment it is not to be restricted. The right is reserved to make such changes or alterations as the actual reduction to practice may suggest, in so far as such changes or alterations are compatible in spirit with the annexed claim.

In the accompanying drawings:

Figure 1 is a perspective view of the improved cap, showing the supplemental cap or closure flap raised.

Fig. 2 is a transverse sectional view through the mouth of a milk bottle to which the cap is attached.

Fig. 3 is a view similar to Fig. 2, this view showing a slight modification of the invention.

Fig. 4 is a perspective view similar to Fig. 1 but showing a modified form of cap.

Referring to the drawings, the invention is shown as comprising a disk 1, made preferably of paper or cardboard. This disk comprises a double thickness of the material of which it is made, the upper layer 2 of which is a cut to provide a flap 3.

The bottom layer 4 is formed with a central hole or perforation 5 and the flap 3 is

depressed to provide a plug or stopper portion 6 which snugly enters the hole 5 when the flap lies down against the lower layer 4. The layer 2, with the exception of the flap, is securely cemented to the layer 4 and the fibers of the material of which this upper layer is made serve to secure the flap to the body portion of the layer, so that it may be raised to free the hole 5 or forced down to a position where the stopper portion 6 will effectively close the hole. The free end of the flap terminates in a tongue 7 for engagement by the fingers, the tongue being bent back in such a way as to permit the outer end of the flap engaging in the recess of the neck 9 of a bottle, as clearly shown in Fig. 2.

In the use of the improved cap, it is preferably coated with paraffin on the under face of the lower layer 2 and on the plug or stopper portion 4, the flap 3 being normally folded down so that the stopper portion engages in and closes the hole 5. The tongue 7 is folded upwardly to provide a finger grip. When the bottle is filled with milk or with any other desired contents, the improved cap is forced in place on the mouth 9 with its periphery engaging in the recess 8. In the event that some but not all of the contents of the bottle are to be emptied therefrom, the tongue 7 is engaged between the fingers, when the flap 3 may be raised, thus freeing the hole or perforation 4, when the contents of the bottle may be poured therethrough, it being unnecessary in such operation to completely remove the cap. When the desired amount of contents has been removed in this manner, the flap 3 may be forced downward to engage the stopper portion 6 into the hole 5, when the bottle becomes as effectively closed as it was by the attachment of the cap in the first instance. Thus it will be observed that the contents of a bottle may be removed in such quantities and at such times as desired, the improved cap providing means for effectively closing the bottle as long as any of its contents remain. Of course, if all the contents of the bottle are to be removed at once, the whole cap may be drawn out of the mouth of the bottle and thrown away or destroyed.

In Figs. 3 and 4 there is shown a modification of the invention, this modification

constituting the replacement of the tongue 7 with a notch 10 formed in the upper layer 2. The flap is made shorter than that which carries the tongue and in order to raise the flap, the thumb or finger nail is placed in the notch when it may engage the end of the flap and the latter be raised for opening the hole 5 for the purpose hereinbefore described.

- 10 It will be observed that the swinging or hinged connection of the flap 3 with its layer is set back from the edge of the hole or perforation 5. This enables the stopper or depressed portion 6 of the flap to be
15 formed so as to engage the hole or perforation throughout the periphery of the latter.

The invention having been described, what is claimed as new and useful is:

A destructible bottle cap comprising a duality of layers secured together, the bottom layer being formed with a perforation and the upper layer having a flap swingingly connected to the layer at a point back from the edge of the perforation, the flap being joined to its layer by the fibers thereof and being provided with an integral circular depressed portion which enters and engages the edge of the perforation throughout the periphery of the latter.

In testimony whereof I affix my signature. 30

FRED V. PHILLIPS.