Sept. 15, 1925. 1,554,115

S. C. MILLER

CAP REMOVER FOR BOTTLES

Filed June 7, 1923

Fig. 1

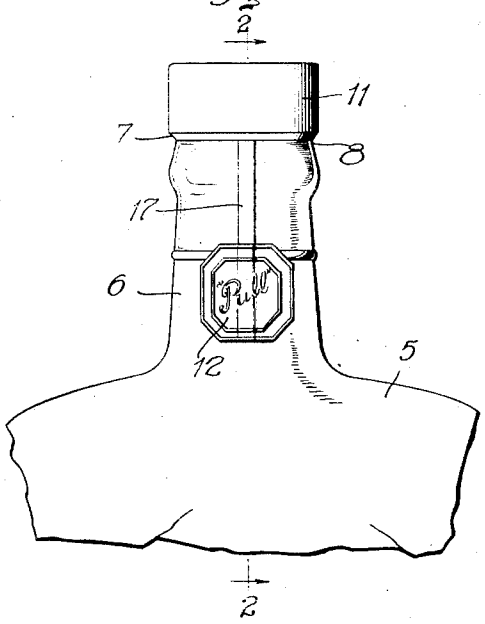


Fig. 2

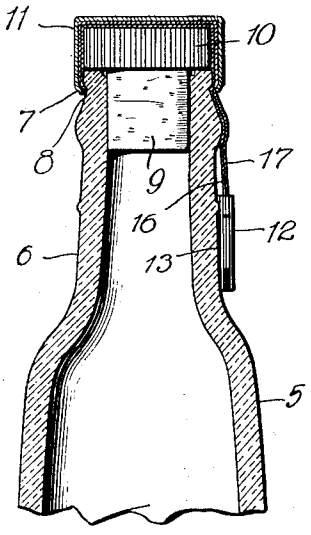
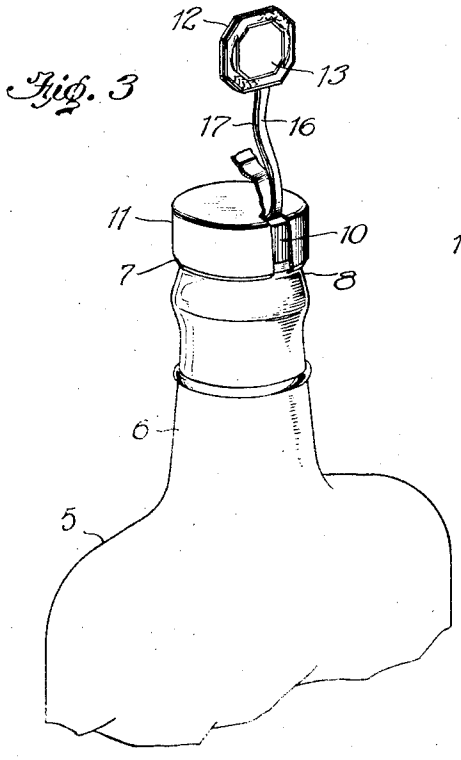


Fig. 3



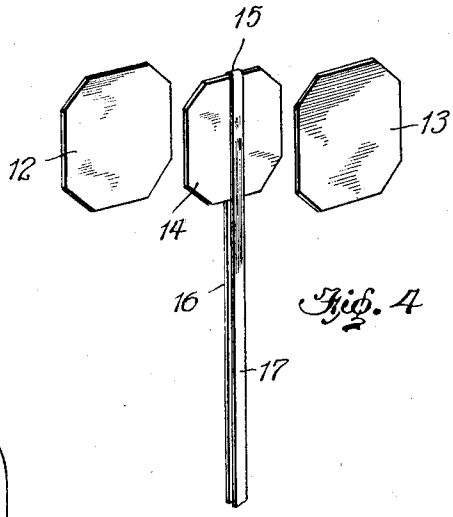


Fig. 4

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UNITED STATES PATENT OFFICE.

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CAP REMOVER FOR BOTTLES.

Application filed June 7, 1923. Serial No. 644,025.

To all whom it may concern:

Be it known that I, SAMUEL C. MILLER, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Cap Removers for Bottles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to improvements in cap removers for bottles and has for an object to provide a strong and attractive article useful in connection with the metal protective and sealing caps which fit over the stoppers of bottles.

The improved remover or "pull" is adapted to be suspended at the side of the bottle neck and is connected with the cap by a metal ribbon which passes beneath the cap for the purpose of tearing through the light metal foil of which the cap is made.

With the foregoing and other objects in view the invention will be more fully described hereinafter and pointed out in the appended claim.

In the drawings in which like symbols refer to like parts throughout the several views,

Fig. 1 is a fragmentary front view of a bottle showing the improved device applied thereto;

Fig. 2 is a vertical section taken through a portion of the bottle at right angles to Fig. 1 and showing the device in the normal suspended position;

Fig. 3 is a fragmentary perspective view of a bottle showing the "pull" as having been drawn partially through the metal cap; and

Fig. 4 is a perspective view showing the improved "pull" disassembled.

Referring more particularly to the drawings, 5 designates generally the bottle and 6 the neck thereof having an enlarged bead 7 about its mouth with an indention or annular groove 8 just inwardly of the bead.

The cork or other stopper is shown at 9 and the head 10 of the stopper is wider than the cork body portion in order to fit upon the upper edge of the bead 7. The head may be corrugated or roughened for the purpose of rotating the stopper in introducing and removing the same.

In accordance with the usual practice, the stopper is confined in place and sealed by the use of a metal cap 11 of cup shape adapted to fit the outer surface and sides of the stopper head 10 and to extend about the bead 7 with its marginal edge deep enough to fit within the indentation or groove 8 made in the bottle neck. The free edge of the cap 11 is compressed or crimped into this indentation.

In accordance with the invention a "pull" cooperates with the cap 11 for the purpose of removing the same and this "pull" is constructed as shown in Fig. 4, in which 12 and 13 designate a pair of disks of metal foil and 14 is a disk of paper or other appropriate material made of a size and shape corresponding to the size and shape given the metal disks 12 and 13. As shown, these disks are substantial squares or rectangles with the corner portions cut diagonally and in Fig. 1 the device has the appearance of an octagonal figure in which the corner portions are slightly shorter than the upper, rear and side portions. The metal disks 12 and 13 are stamped or impressed with a suitable design and also with a suitable legend, but of course this design and legend may be varied as desired.

The central paper or cardboard disk 14 receives the metal ribbon which is folded centrally, the intermediate portion being indicated at 15 and the branches of the ribbon at 16 and 17. These branches are brought in parallelism to opposite sides of the center disk 14 and the disks 12 and 13, which are gummed and adhere to opposite sides of the center disk 14 serve to hold the ribbon upon the center disk and in fact to unite the entire article in a strong whole. The ribbon is sufficiently long to extend between the cap 11 and the head 10 of the stopper in the manner indicated in Fig. 2 leaving a length of the ribbon exposed at the side of the stopper and the "pull" assumes a pendent position. The ribbon extends preferably diametrically of the stopper and disk and is held at opposite sides in the indentation or groove 8 by the clamped edges of the cap. The free ends of the ribbon branches are thus anchored strongly so that the ribbon is not apt to pull out when the cap is being removed. The cap is of light metal foil as above stated and is adapted to be cut through by action of the flat thin ribbon when the "pull" is raised as shown in Fig. 3. The cap is thus raised or severed cen-

trally and it may be easily split about its crimped edge and removed exposing the stopper for easy pulling.

It will be appreciated that the central paper disk 14 will offer an edgewise resistance to the action of the ribbon and as a consequence a great deal of strain may be encountered without the ribbon pulling through the paper. The paper is moreover reinforced laterally by the metal disks 12 and 13 and the reinforcement thus provided is adequate to resist any tendency for the paper to give in either lateral direction. The device forms a most attractive article and due to the metal ribbon and the construction of the device, it will remain flat against the neck of the bottle as indicated in Fig. 2.

It is understood that changes in form, proportion, size, and minor details may be made within the scope of the claim without departing from the spirit or sacrificing any of the advantages of the present invention.

What is claimed is:—

A pulling device for the metal capsules of bottles comprising a ribbon adapted to be placed within the metal capsule and being of a material to cut through the bottle capsule when drawn upwardly, said ribbon being doubled, a disc having its diametrical portion arranged between the folds of the ribbon at its closed end, and other discs of equivalent size secured to opposite faces of the first named disc and acting to bind the opposite strands of the ribbon against the first mentioned disc, said three discs combined to form a pull tab suspended from the ribbon.

SAMUEL C. MILLER.