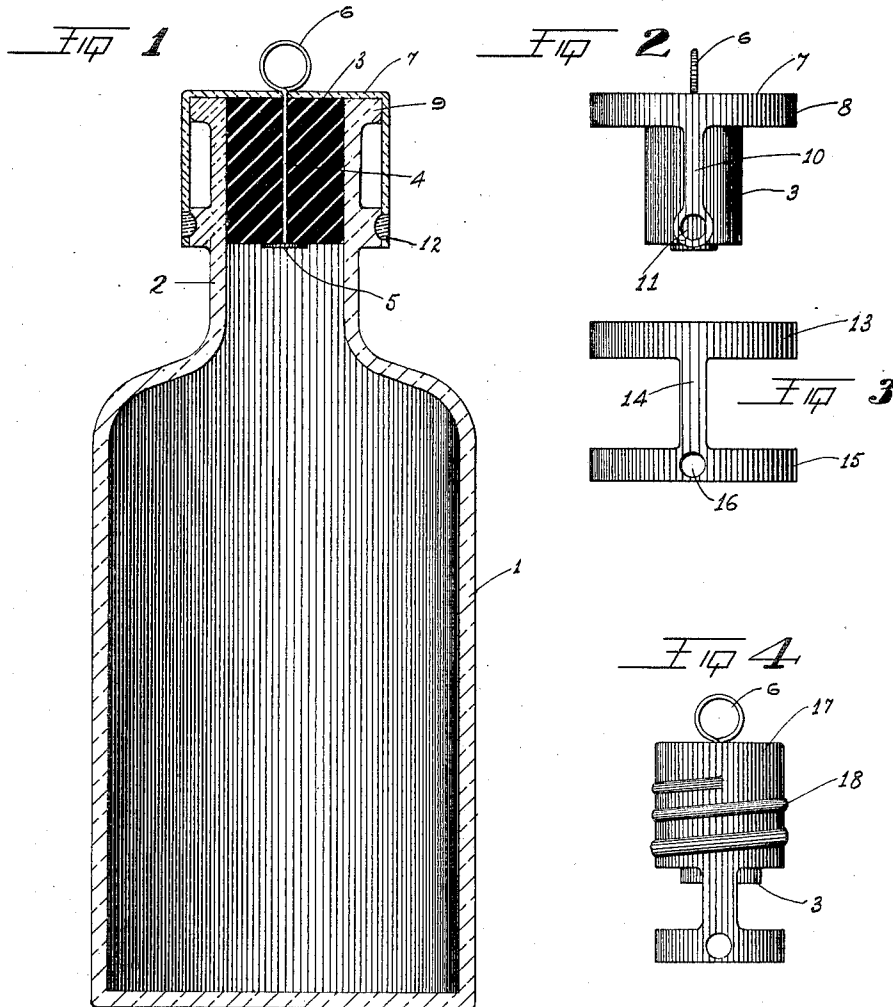


F. T. MUSSO.  
 STOPPER REMOVER AND SEALING CAP.  
 APPLICATION FILED JUNE 17, 1912.

1,051,434.

Patented Jan. 28, 1913.



Witnesses  
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# UNITED STATES PATENT OFFICE.

FEDELE T. MUSSO, OF BOWMAN, CALIFORNIA.

STOPPER-REMOVER AND SEALING-CAP.

1,051,434.

Specification of Letters Patent.

Patented Jan. 28, 1913.

Application filed June 17, 1912. Serial No. 704,063.

*To all whom it may concern:*

Be it known that I, FEDELE T. MUSSO, a citizen of the United States, residing at Bowman, in the county of Placer, State of California, have invented certain new and useful Improvements in Stopper-Removers and Sealing-Caps; and I do declare the following to be a clear, full, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in bottles and particularly to a sealing means therefor, the object of the invention being to produce a combination stopper remover and sealing cap, whereby the bottle may be corked and sealed in an efficient manner and at the same time provide a means for readily and quickly removing both the seal and the stopper.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purpose for which it is designed.

These objects, I accomplish by means of such structure and relative arrangement of the parts as will appear by a perusal of the following specification and claims.

On the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a sectional view of a bottle showing my improved structure thereon. Fig. 2 is a side elevation of the stopper and seal. Fig. 3 is a modified form from that shown in Fig. 2. Fig. 4 is still another modified form.

Referring now more particularly to the characters of reference on the drawings, the numeral 1 designates the bottle having the usual neck 2.

The numeral 3 designates a stopper of rubber or cork or other suitable material projecting through which is a wire 4 provided with a small vitrified disk 5 on its lower end which rests against the under side of the stopper 3. Said wire 4 is provided at its upper end with a finger ring 6. By pulling the ring 6 this will permit the cork to be extracted readily and without damaging the cork and when not in use this ring may be bent down flat on top of the bottle.

Disposed around the wire 4 and between the stopper 3 and the ring 6 is a sealing cap 7 provided with a flange 8 adapted to fit around a projecting flange 9 on the bottle. The flange 8 is provided with a pair of downwardly projecting arms 10 provided in their lower ends with holes 11. In practice when the bottle is filled and the stopper 3 inserted these holes 11 register with recesses 12 in a ring in the neck of the bottle and then glass cement or other suitable sealing means is filled into the holes 11 and the recesses 12 thus securing the sealing cap into the bottle. This sealing cap is made of any brittle material such as porcelain or other similar material and hence when it is desired to unseal the bottle, the members 10 are tapped gently until they break thus breaking the seal and permitting the stopper and seal to be withdrawn by pulling on the ring 6 leaving part of the sealing cap connected to the bottle and thus preventing another cap to be put on the same bottle. This structure will aid in the prevention and detection of spuriously refilled bottles.

Fig. 3 shows a modified form of the sealing cap which is provided with a cap 13 and arms 14, such arms being provided with a surrounding ring 15 having holes 16 to receive cement. This form would be used with bottles having straight necks and not provided with the flange 9.

Fig. 4 shows a modified view showing the sealing cap 16 provided with threads 17 to fit over threads on the neck of the bottle which is the form of bottle commonly used for catsups and similar sauces, such member 16 being provided with arms and a bottom ring similar to the members 14 and 15, said bottom ring being cemented to the ring on the neck of the bottle or to the base thereof. In the structure shown in this Fig. 4, a thin cork can be used with this form of cap in which case no cork extractor need be used.

While this device is primarily intended as a combination of stopper remover and sealing cap, yet for some purposes it may be so changed as to be used only as a stopper remover or as a sealing cap.

From the foregoing description it will be readily seen that I have produced such a device as substantially fulfils the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction

of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention.

5 Having thus described my invention what I claim as new and useful and desire to secure by Letters Patent is:

10 1. A device of the character described comprising the combination with a bottle provided with recesses, of a stopper for such bottle, a sealing cap mounted on said stopper and provided with arms, said arms being provided with holes, and a sealing material disposed through said holes and into  
15 said recesses in said bottle as described.

2. A device of the character described comprising a bottle having a neck, an outwardly projecting annular flange on the

top of said neck, an annular ring on said neck at a spaced distance from said flange, 20 said ring being provided with recesses, a stopper for said bottle, a sealing cap mounted on said stopper, arms on said cap adapted to project parallel to said flange and said ring, the lower ends of said arms being 25 provided with holes adapted to register with the recesses in said ring and a sealing material disposed through said holes and into said recesses, as described.

In testimony whereof I affix my signature 30 in presence of two witnesses.

FEDELE T. MUSSO.

Witnesses:

STEPHEN N. BLEWETT,  
VERA M. WARNER.