

No. 813,449.

PATENTED FEB. 27, 1906.

W. H. REDINGTON.

BOTTLE STOPPER.

APPLICATION FILED OCT. 12, 1904.

Fig. 1.

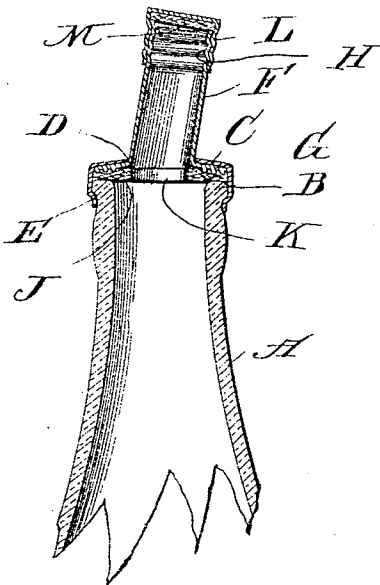
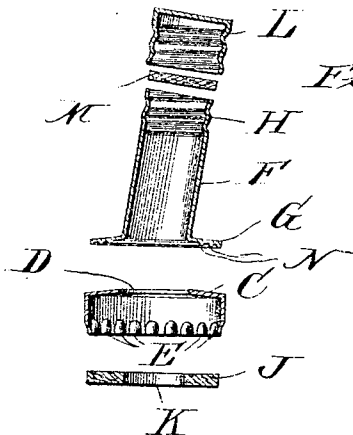


Fig. 2.



Witnesses.

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WILLIAM H. REDINGTON, OF CHICAGO, ILLINOIS.

BOTTLE-STOPPER.

No. 813,449.

Specification of Letters Patent.

Patented Feb. 27, 1906.

Application filed October 12, 1904. Serial No. 228,105.

To all whom it may concern:

Be it known that I, WILLIAM H. REDINGTON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Bottle-Stoppers, of which the following is a specification.

This invention relates to bottle-stoppers, and is designed as an improvement on the construction shown, described, and claimed in my Patent No. 382,191, dated May 1, 1888.

The object of the invention is to simplify and improve the construction of devices of this nature, to cheapen the cost of construction thereof, to enable the same to be economically applied to various kinds and constructions of bottles, and to render the same more efficient.

Other objects of the invention will appear more fully hereinafter.

The invention consists, substantially, in the construction, combination, location, and arrangement of parts, all as will be more fully hereinafter set forth, as shown in the accompanying drawings, and finally pointed out in the appended claims.

Referring to the accompanying drawings, Figure 1 is a view in central longitudinal section of a bottle-stopper embodying the principles of my invention and shown applied to the mouth of a bottle, the body of the bottle being broken off. Fig. 2 is a similar view showing the parts constituting the bottle-stopper in separated relation.

In my prior patent, above referred to, is shown, described, and claimed a construction of bottle-stopper comprising a threaded cap adapted to be screwed onto the neck of the bottle and provided with an integral spout extending angularly therefrom, a cork washer being interposed between the cap and the end surface of the bottle-neck. The use of a bottle-stopper embodying this construction necessitates the provision of a bottle having a specially-constructed exteriorly-threaded neck upon which the cap part is screwed and where the bottle-stopper is employed in connection with a bottle containing corrosive acids, and in order to avoid corrosion therefrom of the cap and spout said cap and its integral spout are designed to be made of non-corrosive material, such as britannia or similar material. It is among the special purposes of my present invention to provide a bottle-stopper the use of which is not limit-

ed to a bottle having an exteriorly-threaded neck and wherein the cap portion of the stopper is not required to be made of a more expensive non-corrosive material—such as tin, britannia, or the like—and in which only the spout portion is made non-corrosive. Again, in the use of the bottle-stopper of my former patent when a bottle has become emptied it may be readily refilled by unscrewing the cap and effecting a refilling of the bottle through the bottle-mouth, thereby enabling unscrupulous persons or dealers to refill empty bottles with spurious or substitute material. It is also among the special purposes of my present invention to provide a bottle-stopper embodying all the advantages of the bottle-stopper of my prior patent, but which may be applied to a bottle-neck in such manner as to prevent the removal of the stopper from the bottle without permanently removing the stopper, thereby constituting, in effect, a bottle-stopper which prevents the ready refilling of the bottle.

The foregoing objects I accomplish by providing the neck or mouth of a bottle A with a rim or shoulder, (indicated at B) adjacent the end of such neck. This is the usual form of a bottle-mouth.

C indicates a cup-shaped cap centrally perforated, as at D, and adapted to fit over the end of the bottle-neck and to have the edges thereof crimped over the bead or shoulder B, as indicated at E, in the ordinary way of crimping the edges of metallic caps over the mouths of beer or similar bottles, thereby permanently securing the cap over the open mouth of the bottle and preventing the efficient reapplication of such cap to the bottle-neck after once removed therefrom.

F designates a spout having at one end a laterally-extending flange G and threaded at its opposite end, as indicated at H. This spout F is designed to be passed through the central perforation D of cap C, with the laterally-extending flange G of the spout bearing against the under surface of the base part of the cap C and between such surface and the end surface of the bottle. Preferably a washer J, of cork or other similar or suitable material, is placed within the cap C and interposed between the under surface of the laterally-extending flange G and the end surface of the bottle-neck, said washer being centrally perforated, as indicated at K. A cover-cap L is designed to be screwed upon

the outer threaded end of spout F, and in order to make an efficient closure a cork or other washer M may be placed against the end wall of the cover-cap L to rest upon the end surface of the spout F. Preferably the spout F extends in inclined relation with respect to the plane of the end surface of the bottle-neck, so as to leave an air-space in such spout above the stream of fluid being poured out of the bottle therethrough.

From the foregoing description it will be seen that I provide a bottle-stopper wherein the cap C and the spout F are made in separate parts, thereby enabling these parts to be made of different materials. For instance, the cap C, I propose to make of tinned steel, enabling the crimps E to be formed therein when the cap is placed over the neck of the bottle, so as to engage over the bead or shoulder B adjacent the end of the bottle-neck to efficiently retain the cap in place. It will also be seen that this cap when so placed over the bottle-neck is permanently secured thereto and when once removed therefrom cannot be replaced efficiently, thereby preventing the removal of the stopper from the bottle should it be desired to refill the bottle.

In practice I propose to form the spout portion F with its integral laterally-extending flange G of non-corrosive material—such, for instance, as tin or britannia—and since the contents of the bottle when being poured out through the spout does not come into contact with the cap portion C and since the spout portion F is separate from the cap portion C it will be seen that the cap portion is not required to be of non-corrosive material, thereby greatly cheapening the cost of the device.

While a bottle-stopper embodying the principles of my invention as above set forth is adapted for application to bottles generally from which the contents are to be poured, it is specially designed for use and application to bottles containing ink.

As it is customary to provide bottles with beads or shoulders encircling the bottle-neck adjacent the end thereof, it will be observed that a bottle-stopper embodying my invention is well adapted for application to bottles generally without the necessity for providing

a special construction of bottle-neck to receive the same.

If desired and in order to prevent leakage of the material poured from the bottle between the washer J and the laterally-extending flange G of the spout, the under surface of such flange may be provided with grooves or ridges, (indicated at N,) which take or bite into the surface of the washer J, thereby forming a tight joint or packing between the under surface of the flange and the top surface of the washer.

Having now set forth the object and nature of my invention and a construction embodying the principles thereof, what I claim as new and useful and of my own invention, and desire to secure by Letters Patent, is—

1. A bottle-stopper, comprising a sheet-metal cap provided with a rim adapted to be permanently fastened to the neck of the bottle and with a perforation through its top in combination with a spout having a flange confined within the cap and a nozzle projecting above such flange through and beyond the cap.

2. A bottle-stopper, comprising a sheet-metal cap provided with a crimped edge or rim for affording a permanent attachment to the neck of the bottle in combination with a spout of non-corrosive material provided with a flange confined within the cap and a nozzle projecting from the flange through an aperture in the cap and beyond said cap.

3. As a new article of manufacture, a bottle-stopper comprising a sheet-metal cap having a depending edge or rim adapted to be crimped over the neck of the bottle to provide a permanent fastening, a spout of non-corrosive material having a flange confined within the cap and a nozzle extending through an aperture in the cap and beyond and at an inclination to the same.

In witness whereof I have hereunto set my hand, this 10th day of October, 1904, in the presence of the subscribing witnesses.

WILLIAM H. REDINGTON.

Witnesses:

E. C. SEMPLE,
C. H. SEEM.