

C. E. DOUGHERTY.

BOTTLE STOPPER.

APPLICATION FILED AUG. 15, 1907.

898,564.

Patented Sept. 15, 1908.

Fig 1.

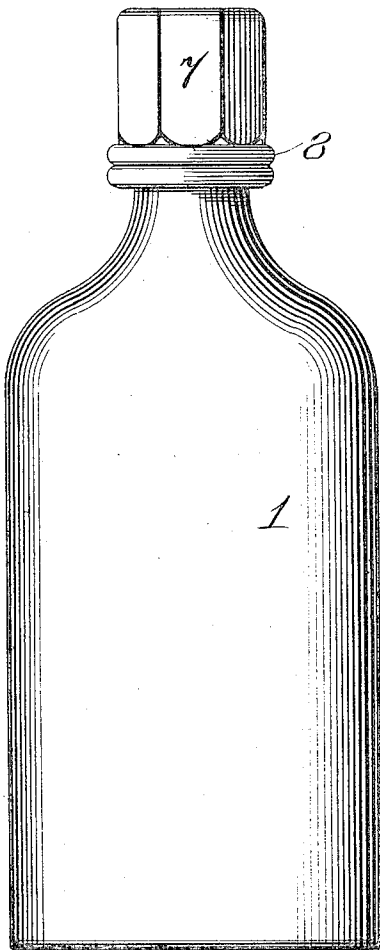


Fig 2.

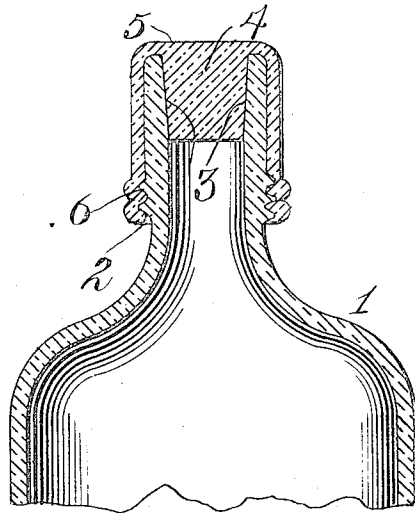
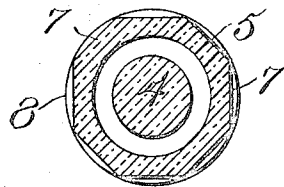


Fig 3.



Witnesses

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CHARLES E. DOUGHERTY, OF ELIZABETH, NEW JERSEY.

BOTTLE-STOPPER.

No. 898,564.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed August 15, 1907. Serial No. 388,691.

To all whom it may concern:

Be it known that I, CHARLES E. DOUGHERTY, a citizen of the United States of America, residing at Elizabeth, in the county of Union and State of New Jersey, have invented new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

This invention is an improved stopper for bottles, particularly for use in bottles containing poison or other dangerous substances, the object of the invention being to provide a stopper which also forms a cap and which necessarily consumes some time while it is being removed from the bottle so that it serves to indicate that the contents of the bottle are of unusual character, to caution the person using the bottle.

The said invention consists in the construction, combination and arrangement of devices hereinafter shown and described.

In the accompanying drawings,—Figure 1 is a side elevation of a bottle provided with a stopper and a cap constructed in accordance with this invention. Fig. 2 is a sectional view of the same. Fig. 3 is a detail transverse sectional view through the stopper and cap.

The bottle 1, which may otherwise be of any suitable construction, is provided on the outer side of its neck at a suitable point with screw-threads 2. The mouth of the bottle is flared, as at 3. The stopper 4, which may be made of glass or of any other suitable material, is of inverted truncated conical form to fit in the flared mouth of the bottle, and its base or outer end is united to a cap 5 which is of such size and shape as to inclose the mouth and outer end of the neck of the bottle and is provided with interior screw threads 6 to engage the threads 2 on the neck of the bottle and effect a tight screw connection therewith and also serve to wedge or seat the stopper tightly in the mouth of the bottle. Preferably the said cap is of polygonal form cross sectionally to provide angularly disposed faces 7 to afford good gripping surfaces and facilitate the application of the stopper and cap to and removal thereof from the bottle. The sleeve portion of the cap which bears against the outer side of the neck of the bottle is here shown as provided at its internally threaded end with externally located annular beads 8 which serve to strengthen the construction thereof and also

serve to enhance the appearance of the bottle and cap.

It will be understood from the foregoing that the stopper can only be removed from the bottle by unscrewing the cap, which operation necessarily consumes some little time and serves to caution the person opening the bottle and to apprise him that its contents are of unusual character. Small children will be unable to operate such stopper.

I do not desire to limit myself to the precise construction and arrangement of devices herein shown and described as modifications may be made therein within the scope of the appended claims.

Having thus described the invention, what is claimed as new, is:—

1. In combination with a bottle having a screw thread on its neck at a distance from its mouth, a cap having a sleeve portion to fit on the mouth of the bottle, said sleeve portion being interiorly threaded at its lower end to engage the threads of the bottle neck and being further provided with externally located annular beads to strengthen the construction of the threaded portion of the sleeve, and a stopper on the inner side of the cap and disposed within the sleeve, said stopper being united to the cap and movable therewith when the sleeve is screwed or unscrewed on the bottle.

2. In combination with a bottle having a screw thread on its neck at a distance from its mouth, a cap having a sleeve portion to fit on the mouth of the bottle, said sleeve portion being interiorly threaded at its lower end to engage the threads of the bottle neck and being further provided with externally located annular beads to strengthen the construction of the threaded portion of the sleeve, and a stopper on the inner side of the cap and disposed within the sleeve, said stopper being united to the cap and movable therewith when the sleeve is screwed or unscrewed on the bottle, said sleeve having angularly disposed faces on that portion thereof which is above the beads to afford gripping surfaces.

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

CHARLES E. DOUGHERTY.

Witnesses:

WILLIAM SHUSTER,
LEO SHUSTER.