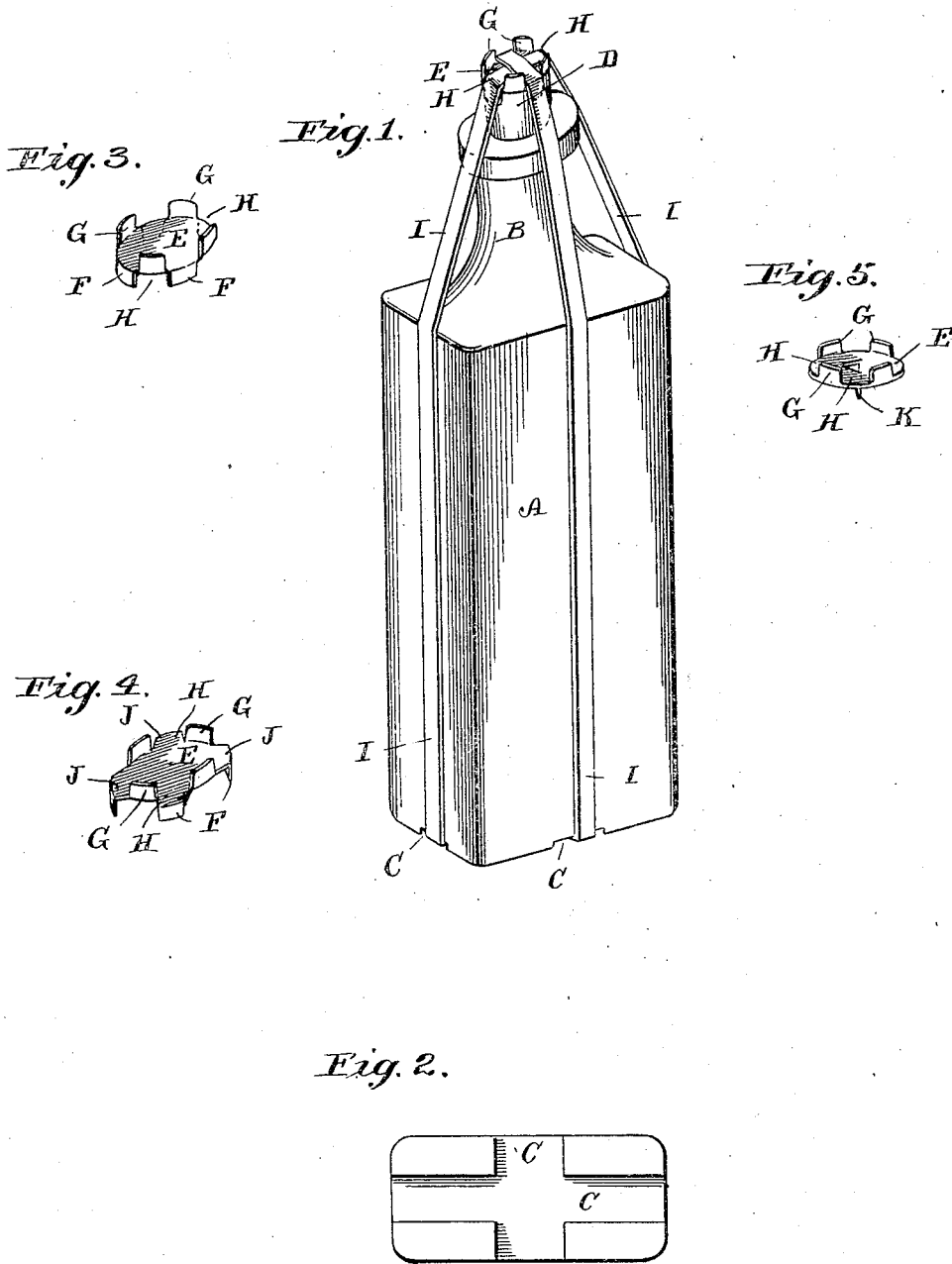


No. 835,497.

PATENTED NOV. 13, 1906.

W. R. BRIGGS.  
BOTTLE STOPPER HOLDING DEVICE.  
APPLICATION FILED FEB. 26, 1906.



Witnesses

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# UNITED STATES PATENT OFFICE.

WARREN R. BRIGGS, OF BRIDGEPORT, CONNECTICUT.

## BOTTLE-STOPPER-HOLDING DEVICE.

No. 835,497.

Specification of Letters Patent.

Patented Nov. 13, 1906.

Application filed February 26, 1906. Serial No. 302,834.

*To all whom it may concern:*

Be it known that I, WARREN R. BRIGGS, a citizen of the United States, and a resident of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Bottle-Stopper-Holding Devices, of which the following is a specification.

My invention relates to stoppers for bottles, and more particularly to means for preventing such stoppers from coming out accidentally.

It is the purpose of my invention to provide means whereby ordinary cork, rubber, glass, or other kinds of stoppers, including special fancy or ornamental designs, may be secured within a bottle when once set in a way to prevent said stoppers from jarring or accidentally working out of the bottle, as is frequently the case when no precaution for holding the stopper is employed; further, to produce a device for the above purpose which can be applied to different styles of stoppers and especially to ordinary medicine-bottles having cork stoppers; finally, to design the device so as to permit of it being manufactured and sold cheap enough to warrant its general use by druggists, doctors, and others.

Upon the accompanying sheet of drawings, forming a part of this specification, similar characters of reference denote like or corresponding parts throughout the several figures, and of which—

Figure 1 shows a perspective view of an ordinary design of bottle and cork stopper fitted with my improved devices for holding said stopper in the bottle. Fig. 2 is a bottom end view of the bottle shown in Fig. 1. Fig. 3 is a detached perspective view of a novel form of metal cap forming a feature of my invention for attachment to the end of an ordinary stopper, as shown in Fig. 1. Fig. 4 is a detached perspective view of a cap somewhat like that shown in Fig. 3, but adapted to fit different-size stoppers. Fig. 5 shows a modified form of cap for attachment to cork stoppers which, like Fig. 4, may also be used upon stoppers of different sizes.

My invention may be used in connection with most any ordinary style of bottle and stopper having a flat top and bottom end; but I find it preferable to use a bottle having a specially-grooved bottom, as shown in Fig. 2 of the drawings, to better receive and retain

the elastic bands or cords employed for holding the stopper in place.

Referring in detail to the characters of reference marked upon the drawings, A indicates a bottle; B, the mouth, and C crossed grooves in the bottom of the bottle, which grooves may vary in width or contour as is best adapted to accommodate the particular style of bottle and binder employed.

D indicates an ordinary cork stopper, which may be held in the mouth of a bottle with my improved device, as shown in Fig. 1.

E represents a novel construction of reversible metal cap to fit upon the top end of an ordinary stopper, having a suitable number of ears formed by serrating the periphery of the cap and the alternate ears deflected in opposite directions.

The ears F deflected downward from the periphery serve to engage the sides of the stopper, as shown in Fig. 1, to retain the cap in place upon the stopper. This cap also contains a second series of four upturned ears G deflected from intermediate of the depending ears forming four pockets H upon the periphery of the cap and arranged opposite to each other and adjacent to the four sides of the bottle, thus producing, in effect, intersecting right-angle ways across the top of the cap or stopper to accommodate the crossed bindings I, as shown in Fig. 1. These binding-pieces may be of cord, wire, or in the form of a pair of rubber bands I, placed longitudinally around the bottle and over the stopper, passing across each other and through the grooves C, and likewise crossing each on the cap and passing through the pockets H of the cap in a way to be firmly held from slipping away, as shown in Fig. 1.

The cap shown in Fig. 4 is designed to accommodate two sizes of cork stoppers and is attached and used like the cap shown in Figs. 1 and 3, by using the under face against the top end of large stoppers in one instance, and the other or top face of the cap upon smaller size stoppers in the other instance. The construction of this cap is similar to that shown in Figs. 1 and 3, except that the four corners J of the body of the cap proper are extended, as shown, to bring the deflected ears F of one side of the cap out farther from the center of the cap than the ears G upon the other side. The cylindrical space intermediate the ears upon one side of this cap is obviously greater than that upon the other, and therefore one

side is adapted for one size stoppers, while the other side would fit another, it being only necessary to reverse the cap for different-size stoppers.

5 The cap shown in Fig. 5 is designed as a cheaper cap and likewise one that may be used upon different-size stoppers. It contains the four upturned ears G to form the four pockets H to hold the bands, and a central point K punched down from the intermediate portion of the cap. This point obviously is designed to be shoved down into the top face of a cork stopper to center and hold the cap in place. In the use of a cap of this construction it is not necessary that the size of the cap should be equal to that of the stopper, and it thus permits of a variation in either direction.

20 Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a holder for bottle-stoppers, the combination with a bottle and stopper seated therein, a metal cap having a series of ears deflected upward from its peripheral edge and means to secure the cap to the stopper, and bands extending around the bottle and stopper-cap.

2. In a holder for bottle-stoppers, the combination with a bottle and stopper seated therein, a metal cap to be seated upon the stopper and having a series of ears deflected in either direction from the edge, and bands extending longitudinally around the bottle and stopper.

3. In a holder for bottle-stoppers, the combination with a bottle and stopper seated therein, a metal cap to be seated upon the stopper having a series of pockets in its periphery, and a series of depending ears to

engage the stopper, and bands to encircle both the bottle and stopper.

4. In a holder for bottle-stoppers, the combination with a bottle and stopper seated therein, a metal cap to be seated upon the stopper having one series of ears deflected upward from the edge of the cap and a second series of ears deflected in the opposite direction from intermediate of the upturned ears, and bands extending around the bottle and stopper.

5. A holder-cap for bottle-stopper-fastening devices, comprising a metal disk having a serrated edge forming a series of peripheral ears the alternate ones of which are deflected in opposite directions.

6. A cap for bottle-stopper-holding devices, comprising a metal disk having a serrated edge forming a series of ears upon its periphery, some of which are deflected upward and some downward to form pockets for bands and means to engage the sides of a stopper.

7. A holder-cap for bottle-stopper fasteners comprising a metal disk having a series of ears deflected upward from its edge and pockets intermediate such ears, a second series of ears out beyond the first series and deflected in the opposite direction each of said series adapted to engage the sides of a bottle-stopper to retain the cap thereon and bands to fit over the cap and around the bottle.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 9th day of February, A. D. 1906.

WARREN R. BRIGGS.

Witnesses:

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