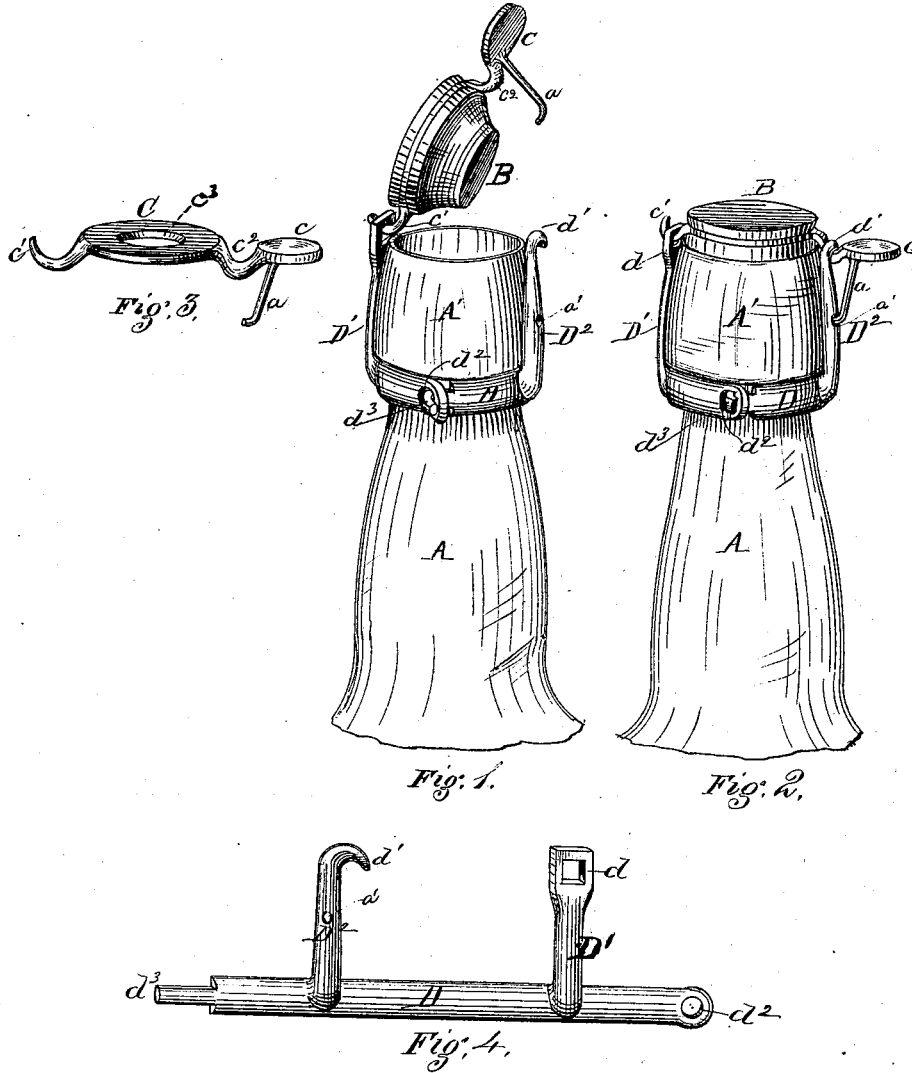


W. SILVESTER.
Bottle-Stopper and Stopper-Fastener.

No. 211,529.

Patented Jan. 21, 1879.



Witnesses.

Francis L. Clark
Harry C. Pray.

Inventor William Silvester
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UNITED STATES PATENT OFFICE.

WILLIAM SILVESTER, OF PITTSBURG, PA., ASSIGNOR TO G. H. ZACHARIAS
AND W. J. RADCLIFF, OF SAME PLACE, ONE-THIRD TO EACH.

IMPROVEMENT IN BOTTLE-STOPPERS AND STOPPER-FASTENERS.

Specification forming part of Letters Patent No. 211,529, dated January 21, 1879; application filed
October 30, 1878.

To all whom it may concern:

Be it known that I, WILLIAM SILVESTER, of Pittsburg, Pennsylvania, have invented a new and useful Improvement in Bottle-Stoppers, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing.

Similar letters of reference indicate corresponding parts.

Figure 1 of the drawings represents a perspective view of my improved bottle-stopper withdrawn. Fig. 2 designates a perspective view with the stopper inserted in the mouth of a bottle. Fig. 3 represents a perspective view of the plate by which the stopper is held. Fig. 4 designates the band which encircles the neck of the bottle.

This invention has relation to improvements in bottle-stoppers; and it consists in the construction and novel arrangement of the several parts connected therewith, as will be hereinafter more fully explained.

The annexed drawings, to which reference is made, fully illustrate my invention.

A designates the neck of a bottle; A', the top or mouth of the same, which is constructed in the usual and well-known form. B represents the stopper, composed of any suitable material, having a neck, which is passed through the perforations c^3 in the center of the plate C, after which the head of the stopper is fastened above the upper part of said plate C, thereby securing the stopper to the plate C.

At one side of said plate is formed a hook, c^1 , and at the opposite side of the same is formed a downwardly-projecting bent arm, c^2 , the continuation of which serves as a thumb-piece, c , for fastening and unfastening the stopper from the bottle, all of which will be hereinafter more fully explained.

D represents a band of any suitable material, one end of which is provided with an eye, d^2 . The opposite end of the same is also provided with a tongue, d^3 , for the purpose of interlocking with the eye d^2 when bent around the neck of a bottle. This band D is also pro-

vided with arms D^1 D^2 arising from said band, one of which is perforated at d to receive the hook c^1 . The other arm, D^2 , terminates in a hook, d^1 , to receive the bent arm c^2 of the plate C.

The operation of my bottle-stopper in fastening and unfastening the same is as follows:

In order to apply this device to the neck of a bottle, it is necessary to bend the band D around the neck of the bottle, thereby bringing the ends d^2 d^3 together and inserting the tongue in the eye d^2 ; then, giving the tongue d^3 a slight bend prevents the parts from being detached.

To insert the stopper in the mouth of the bottle, the hook c^1 is passed into the eye d of the arm D^1 ; then, by a slight pressure on the thumb-piece c , the bent arm c^2 is brought down and under the hook d^1 , and held securely in place by the upward pressure of the stopper B and the plate C against the hooks c^1 d^1 .

To unfasten the stopper B, a slight pressure on the thumb-piece c will cause the bent arm c^2 to separate from the hook d^1 ; then, a sidewise movement of said thumb-piece c will allow the stopper to be easily removed.

I do not wish to confine myself to this particular kind of stopper, as it may be made in various ways, one of which may be made in one piece and fastened together after being applied to the plate C; but I prefer making it of two pieces, forming a groove encircling the same near the top thereof.

I may substitute for the hook d^1 and bent arm c^2 a pin, a , depending from the thumb-piece c to about the center of the arm D^2 , to engage with a hole, a' , made in the same to receive the hook end of the depending pin a . The hole a' may be elongated downwardly, and having at the bottom a slot made at right angles thereto, representing in appearance the capital letter L. (Not shown.)

I am aware that bands encircling the neck of a bottle for the adjustment of stoppers in bottles has heretofore been done, as shown in patent of Clark, No. 153,746, dated August 4,

1874, and English patent of Cooper, No. 3,278 for 1877, and therefore do not claim what is contained therein; but

What I do claim is—

The combination, with stopper B, having the encircling-plate C, with circular orifice c^3 , hook c^1 , and bend c^2 , thumb-disk c , and hook a , of the band D, having arm D^2 , with its

hook d^1 and hole or slot a' , and arm D^1 , having staple d , substantially as and for the purpose set forth.

WILLIAM SILVESTER.

Witnesses:

ED. WITTISH,

J. FRANK CONDON.