(No Model.)

E. BACHER.

INTERNAL BOTTLE STOPPER.

No. 299,714.

Patented June 3, 1884.

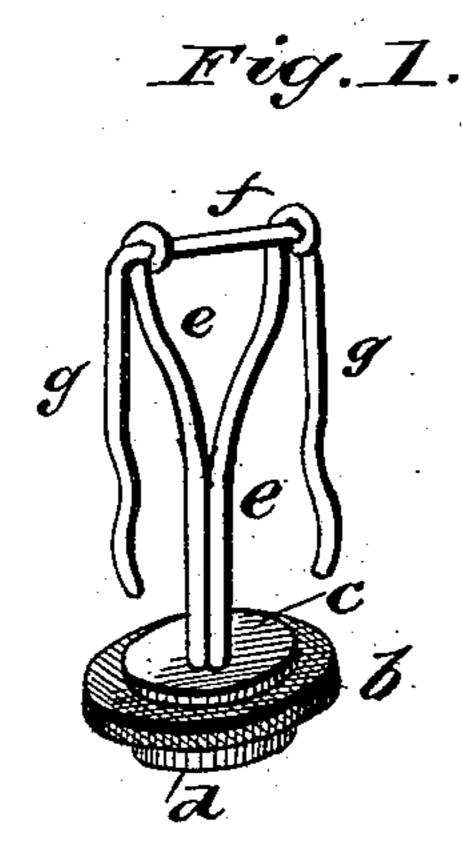
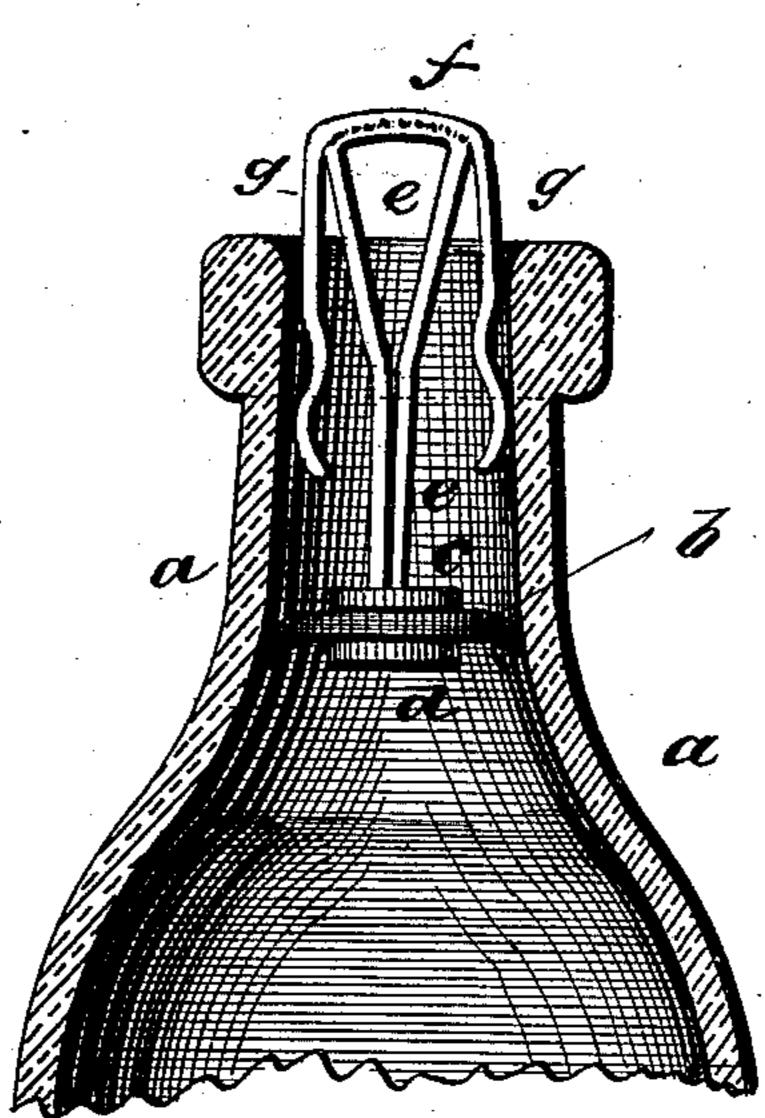


Fig. 2.



WITNESSES Mil Letterif,

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ERNEST BACHER, OF FINDLAY, OHIO, ASSIGNOR OF ONE-HALF TO VINCENT H. COONS, OF SAME PLACE.

INTERNAL BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 299,714, dated June 3, 1884.

Application filed December 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, ERNEST BACHER, a citizen of the United States, residing at Findlay, in the county of Hancock and State of Ohio, have invented certain new and useful Improvements in Internal Bottle-Stoppers, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

Figure 1 is a perspective view, and Fig. 2

is a modified view, of the invention.

This invention has relation to internal bottle-stoppers; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims appended.

Heretofore in this class of bottle-stoppers the bail has been made without sufficient spring at the sides, or it has been hinged to the valve, which renders it difficult to keep it clean, or the spring has been all on one side, or it has had a bow connected to a central stem to form the bail, which not only weakens the bail, but requires a hook or bench of special construction to bottle with. My object is to provide an internal bottle-stopper that will have a bow with equal pressure on the sides of the neck of the bottle, and provides the necessary strength when the hook pulls it up in bottling, and wherein the same bottling bench and hook that is ordinarily employed may be used.

Referring by letter to the accompanying drawings, a designates the neck of the bottle; b, the rubber valve of the stopper between the metal washers c d, from which the Y-shaped stem e rises. The arms of the Y are looped around a staple-shaped spring-bow, f,

which has its arms g g curved inwardly, then outwardly, and again inwardly, so that they may be compressed within the neck of the bottle either to hold the stopper open or closed, as may be desired.

As a modification of the stopper, I may solder the bow to a triangular-shaped stem, as shown in Fig. 2; but I prefer the Y-shaped 45 stem and the spring-bow adapted to swing in the eyes or loops at the ends of the arms of the Y-stem. This construction makes a strong and serviceable bottle-stopper. It possesses a readily-yielding spring-bow, and may be used 50 with the ordinary bottling bench and hook.

Having thus fully described my invention, what I claim as new, and desire to secure by

Letters Patent, is—

1. In an internal bottle-stopper, the combination, with the rubber valve and upper and lower metal washers having the Y-shaped stem with eyes at the ends of the Y, of the swinging spring-bow held in the eyes of the Y, substantially as specified.

2. In an internal bottle-stopper, the combination, with the rubber valve and metal washers, of the stem flaring outwardly at its upper end, and of the spring-bow secured to the enlarged portion of the stem and extending 65 downwardly on both sides thereof, substantially as specified.

In testimony whereof I affix my signature in

presence of two witnesses.

ERNEST BACHER.

Witnesses:
Tom E. Frazer,
John Poe.