

C. De QUILLFELDT.
BOTTLE-STOPPER.

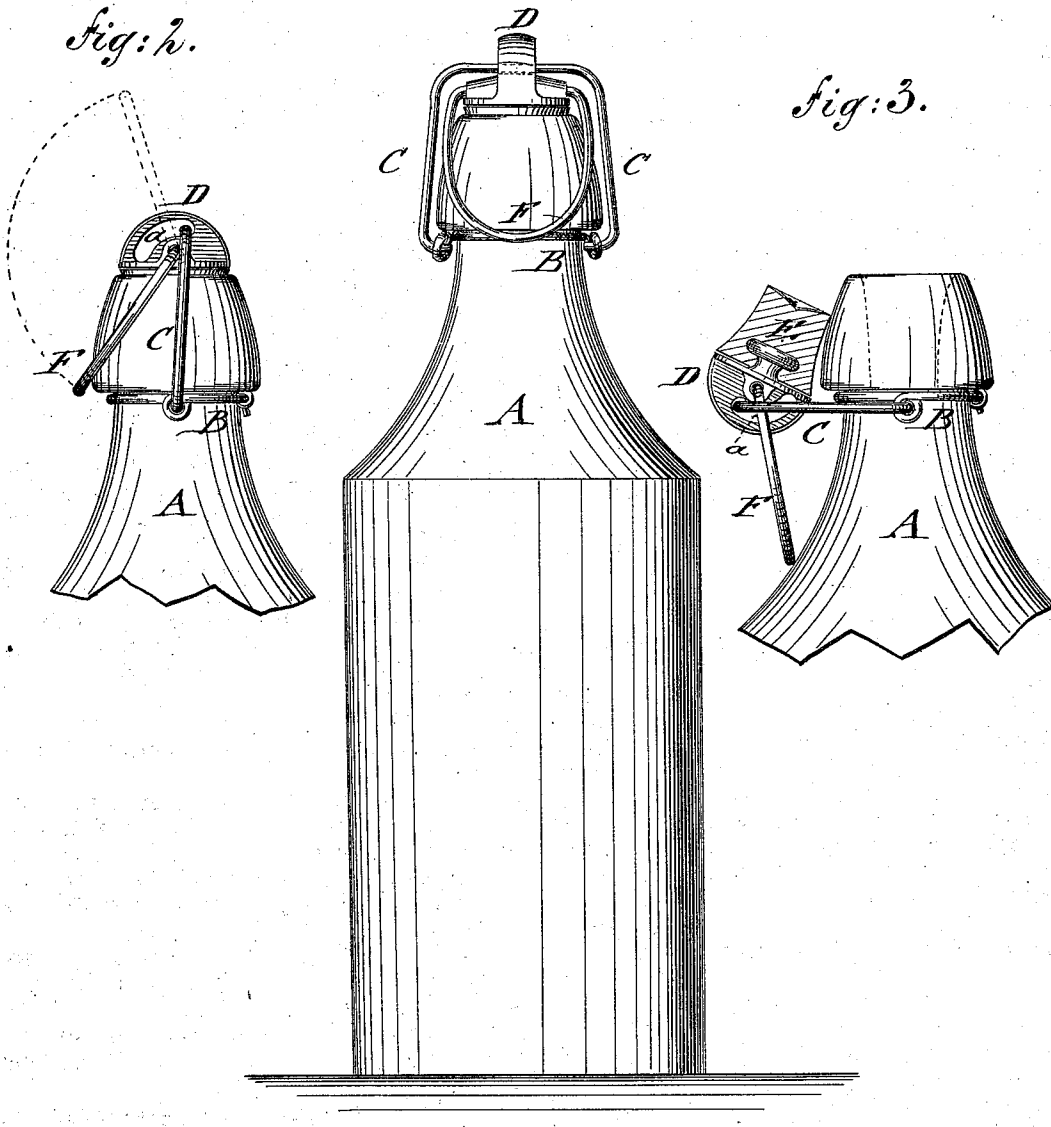
No. 173,533.

Patented Feb. 15, 1876.

Fig: 1.

Fig: 2.

Fig: 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES DE QUILLFELDT, OF NEW YORK, N. Y.

IMPROVEMENT IN BOTTLE-STOPPERS.

Specification forming part of Letters Patent No. **173,533**, dated February 15, 1876; application filed January 7, 1876.

To all whom it may concern:

Be it known that I, CHARLES DE QUILLFELDT, of the city, county, and State of New York, have invented a new and Improved Bottle-Stopper, of which the following is a specification:

Figure 1 represents an end elevation of my improved bottle-stopper; and Figs. 2 and 3 sectional side views of the same, showing the stopper, respectively, in open and closed position.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved bottle-stopper of simple and durable construction, that may be opened and closed with great facility; and it consists of an elastic stopper applied to a solid cap-piece, and hung by a curved slot to a yoke pivoted at the neck-band. A lever-bail, pivoted to the cap-piece below the slot, acts on the yoke, and raises it to the uppermost part of the slotted cap-piece, to secure thereby the stopper to the neck.

In the drawing, A represents a bottle, to the neck-band B of which the yoke C is pivoted, in the customary manner. The yoke C passes with its upper or bridge part through a slotted cap, D, cast of suitable metal, which is thus loosely hung to the yoke. The slot *a*, in which the yoke slides, may be made of inclined or curved shape, extending at its highest point somewhat beyond the vertical axis of the cap, so that when the yoke is carried into the uppermost corner of the slot the cap is firmly and tightly secured on the neck of the bottle. A stopper, E, of rubber or other elastic material, is applied to the under side of the cap-piece, and made to fit tightly on the neck when the cap is depressed by the yoke. The yoke C is raised in the slot by a lever-bail, F, that passes through a lateral perforation of the cap-piece below, and slightly in front of, the uppermost corner part of the slot, the swinging of the bail in upward di-

rection producing thereby the seating of the yoke in the uppermost part of slot *a*, slightly sidewise of the vertical axis, so as to retain the cap rigidly until the yoke is released by being pressed in forward direction. The bail fits to the neck of the bottle, furnishing thereby, together with the round cap and yoke, no projecting parts or corners, which render the handling of the bottle difficult.

The raising of the bail closes the stopper, and the releasing of the yoke opens the same, forming thus a simple, durable, and cheap bottle-closing device.

The bail is of such length that it supports the stopper when the bottle is opened on the neck, as shown in Fig. 3, serving to retain the same rigidly in this position for emptying the bottle without interfering with the pouring out of the liquid.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In bottle-stoppers, the combination of a swinging yoke, a loose cap-piece having stopper and curved slot, and a swinging lever-bail, pivoted to the cap-piece below the upper end of the slot, to be operated substantially as specified.

2. In bottle-stoppers, a lever-bail pivoted to cap-piece, and swinging with yoke into open position, to bear jointly on the neck-yoke as well as stopper, and thus retain the stopper at one side of the neck, as and for the purpose specified.

3. In bottle-stoppers, a swinging lever-bail, pivoted to the cap-piece below, and somewhat in front of, the uppermost corner of the curved slot of the cap-piece, substantially as specified.

CHAS. DE QUILLFELDT.

Witnesses:

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T. B. MOSHER.