E. D. WEYBURN.

Bottle-Stopper Fastener.

No. 199,337. Patented Jan. 15, 1878.

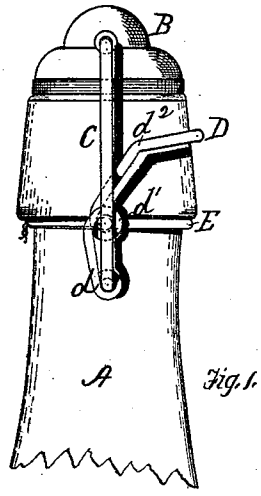


Fig. 1.

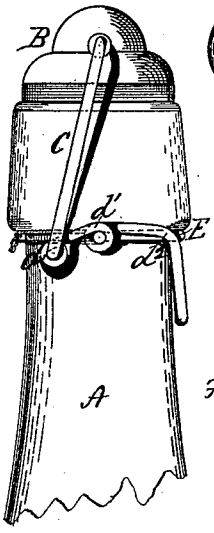


Fig. 2.

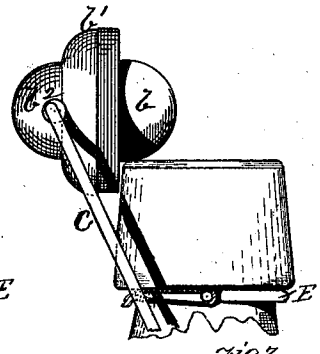


Fig. 3.

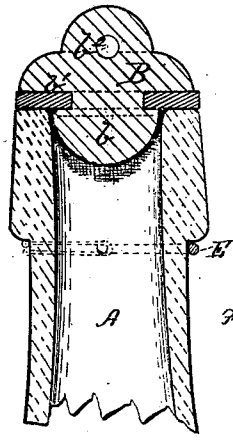


Fig. 4.

Witnesses.
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UNITED STATES PATENT OFFICE.

ELBERT D. WEYBURN, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN BOTTLE-STOPPER FASTENERS.

Specification forming part of Letters Patent No. **199,337**, dated January 15, 1878; application filed October 27, 1877.

To all whom it may concern:

Be it known that I, ELBERT D. WEYBURN, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Bottle-Stoppers; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of a bottle closed by devices embodying my invention. Fig. 2 is a similar view, the locking-lever being turned down to release the bail or yoke, the stopper still resting loosely in the neck of the bottle. Fig. 3 is a similar view, the stopper being in the first position, or when about to be introduced into the neck of the bottle. Fig. 4 is a central section of the stopper.

Like letters refer to like parts wherever they occur.

My invention relates to that class of devices wherein the stopper is held by a yoke, and locked or released by means of a lever, which moves the pivot of the yoke on or off the center.

The object of the invention is to obtain such a construction and combination of the stopper-yoke and its lever that the stopper is readily locked or released, is not liable to be accidentally released, and is always forced vertically upon its seat, whereby a uniform and accurate closing of the bottle is insured; to which end it consists in the combination, with the stopper, of a yoke and locking-lever, the latter pivoted to the bottle within its length, and to the yoke at its extremities, so that the motions of the lever and yoke are in reverse directions in either fastening or unfastening the vessel, requiring less power in application, and bringing no locking force to bear upon the stopper until it is properly seated.

I will now proceed to describe my invention, so that others skilled in the art to which it appertains may apply the same.

In the drawings, A indicates a bottle; B, the stopper thereof, connected thereto by a yoke, C, pivoted on a locking-lever, D. C is a U-shaped yoke, formed from wire, with its end bent slightly to form pintles, by means of which it is pivoted to the free ends of a locking-lever, D.

D indicates the locking-lever, which is a section of wire bent into general U form, looped at its extremities, as at d, for the pivoting of the yoke, and again within its length, as at d^1, so that it can be hinged to or pivoted on the bottle. At the middle it is usually deflected or bent, as shown at d^2, in order that it may apply itself to the neck of the bottle.

In order to secure the locking-lever D to the bottle, a third U-shaped piece, E, is used, whose ends are also bent to form pintles for the lever D, said piece E being wired directly to the bottle in any suitable manner.

The piece E having been wired or otherwise secured to the bottle, the lever D is secured thereto by passing the inner loops or eyes d^1 over the pintles (or bent ends) of E, and the yoke on which the stopper has been threaded or otherwise attached is secured by springing its bent free ends or pintles into the loops d on the free ends of the locking-lever.

The devices may be operated to close the bottle by swinging yoke C over the bottle-neck until the stopper rests loosely and squarely upon its seat, after which the portion d^2 of lever D is pushed up against the neck of the bottle, so as to swing down the free ends d thereof, thus bringing the yoke C into line, and forcing the gasket and stopper squarely and vertically upon its seat on the lip of the bottle.

The advantages of my invention are, that less power of force is required in sealing and unsealing the vessel, and the stopper is always caused to enter the neck of the bottle fairly, and effectually close the same.

I do not herein claim the combination of a pivoted lever and eccentrically-pivoted yoke with a bottle-stopper. Nor do I claim a bottle-stopper having a rounded core covered with a rubber jacket; but,

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

The combination, with a bottle-stopper, of a locking-lever pivoted to the bottle within its length, and a stopper-yoke pivoted to the free ends of the locking-lever, substantially as and for the purpose specified.

In testimony whereof I, the said ELBERT D. WEYBURN, have hereunto set my hand.

ELBERT D. WEYBURN.

Witnesses:

F. W. RITTER, Jr.,

W. W. GRIER.