



# UNITED STATES PATENT OFFICE.

LOUIS KUTSCHER, OF BRIDGEPORT, CONNECTICUT.

## IMPROVEMENT IN BOTTLE-STOPPER FASTENERS.

Specification forming part of Letters Patent No. 204,341, dated May 28, 1878; application filed February 18, 1878.

### *To all whom it may concern:*

Be it known that I, LOUIS KUTSCHER, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new Improvement in Bottle-Stoppers; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, side view; Fig. 2, front view; Fig. 3, transverse section through the plate and plug.

This invention relates to an improvement in that class of stoppers for bottles which consists of an elastic plug attached to a metal plate hinged to the bottle; and it consists in the method of attaching the plug to the plate, and of clamping the plug to the bottle, as hereinafter described, and more particularly recited.

A is the bottle, of usual construction; B, the metallic plate or cap, hinged to the bottle by a link, *a*, connecting to the band *d* around the neck of the bottle.

The band around the bottle is made of wire, bent around the bottle, and its two ends twisted together to form a pivot, *e*, on which a lever, *f*, is placed, so as to turn freely in a vertical plane parallel with the hinge of the plate B. This lever *f* has an outward projection, *h*, at one end, and a similar projection, *l*, at the other end. To the plate B, opposite the hinge, a link or rod, *n*, is hung, terminating in a loop, *m*, at its lower end, and so as to engage with the projection *h* on the cam. On the under side of the plate B the elastic plug C is secured.

To close the bottle, the plate is turned over the mouth so that the plug will enter therein, the cam turned to a horizontal position, as indicated in broken lines, Fig. 2, and the loop *m* passed upon the projection *h* of the cam, as also seen in broken lines, Fig. 2; then the cam is turned into a vertical position until the projection *l* strikes the rod *n*, and when the eye *m* on the lower projection *h* has reached or passed the vertical central line through the pivot of the cam, then the cover is secured. To open the bottle, reverse the operation.

The elastic plug is secured to the plate by constructing the plate with two projections, *s*, on its under side, which projections have transverse and corresponding perforations through them. The plug C is constructed with cavities corresponding with the projections *s s*, and is set thereon. A pin, *t*, is placed transversely through the plug and the perforations in the said projections, as seen in Fig. 3.

### I claim—

The combination of the plate B and elastic plug attached thereto, the said plate hinged to the neck of the bottle, with the cam *f*, pivoted to the neck of the bottle to swing in a vertical plane parallel with the hinge of the plate B, and constructed with a projection, *h*, at one end and projection *l* at the other, and the bar *n*, attached to the said plate, and provided with a loop, *m*, to engage the projection *h* on the said cam, substantially as described.

LOUIS KUTSCHER.

### Witnesses:

J. H. SHUMWAY,  
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