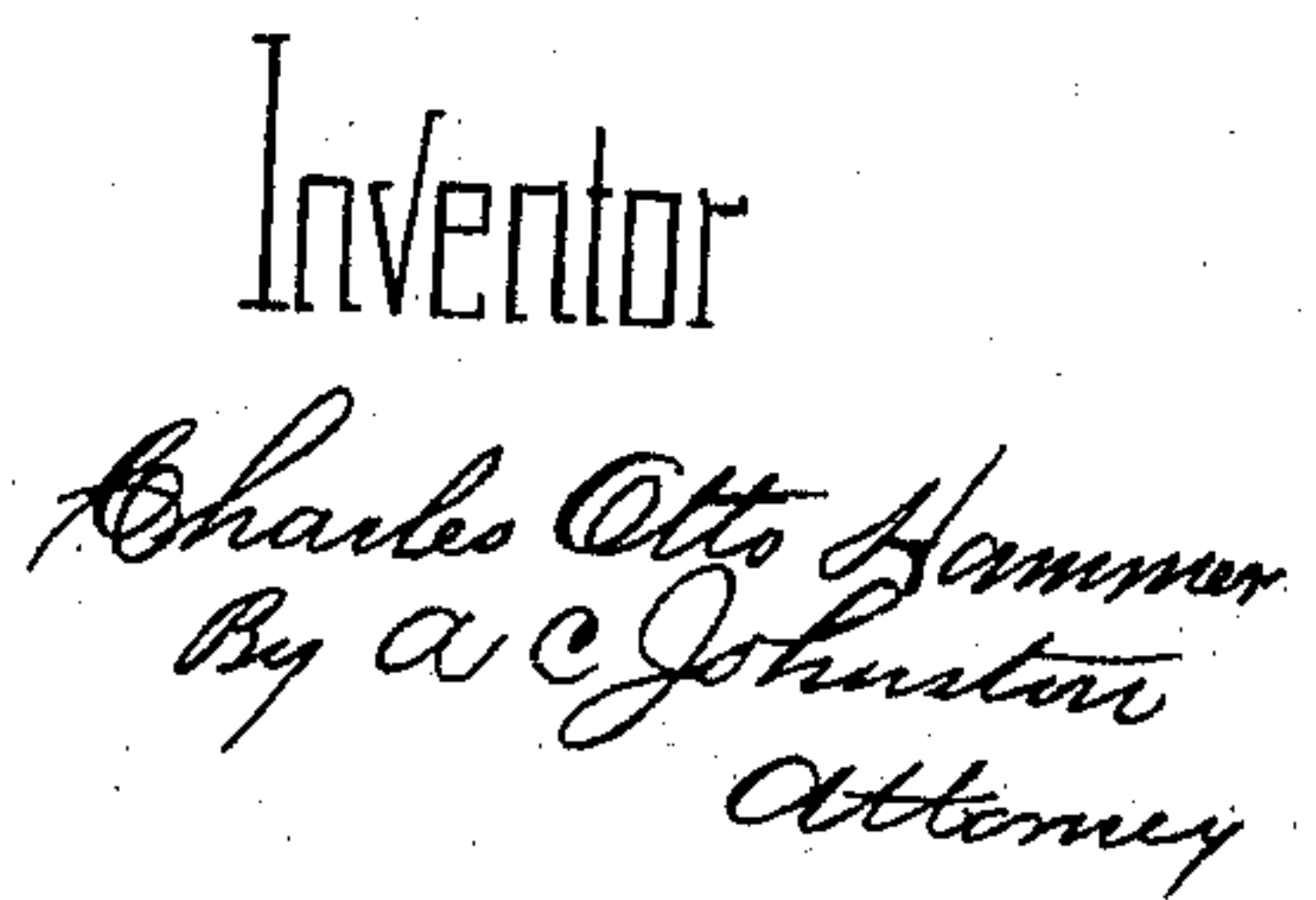


Patented May 14, 1878.



# UNITED STATES PATENT OFFICE.

CHARLES OTTO HAMMER, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF  
ONE-HALF HIS RIGHT TO WILLIAM SUNDERMAN, OF SAME PLACE.

## IMPROVEMENT IN BOTTLE-STOPPER FASTENERS.

Specification forming part of Letters Patent No. **203,615**, dated May 14, 1878; application filed  
March 7, 1878.

*To all whom it may concern:*

Be it known that I, CHARLES OTTO HAMMER, of Pittsburg, county of Allegheny, and State of Pennsylvania, have invented a new and useful Improvement in Bottle-Stopples; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My improvement in stoppers for bottles consists in surrounding the neck of the bottle with a metallic band, to two lugs of which is pivoted a bail, to which is pivoted a lever, and to the lower end of which lever is pivoted an elastic stopper, the pivotal points of the said lever and of the cap being so arranged with relation to each other that they are on different planes, both vertical and horizontal, whereby the elastic stopper, when placed in the throat of the bottle, will yield to the downward pressure of the projection of the lever, to which the cap is pivoted, when forcing upward the lever and bail into a vertical position, as shown in Figure 1, in which position the pivotal point of the lever and of bail are on a line with the vertical axis of the bottle and stopper, thereby holding and locking them in a vertical position by the upward pressure of the elastic stopper combined with the peculiar position of the pivot-points of the bail, cap, and lever.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of my specification, Fig. 1 is a front elevation of a bottle provided with my improved stopple, representing the stopple and position of the lever and bail when the bottle is hermetically sealed. Fig. 2 represents the position of the lever, bail, and stopple when the bottle is unsealed. Fig. 3 represents a verti-

cal section of the lever, cap, and coniformed stopple. Fig. 4 represents a longitudinal section of the lever and transverse section of the cap.

In the drawings, A represents the bottle, around the neck of which is placed a band, B, having lugs C, in which is pivoted a bail, D, which passes through the lever *e* at *o*, which is pivoted to projection *x'* at *f* to the metallic cap *g*, to the under side of which is secured an elastic coniformed stopple, *h*. The band B, at *i*, is bent back, so as to form hooks *k*, for the purpose of drawing the band closely to the neck of the bottle by means of a link, *l*, formed of wire, by twisting it, as shown at *m*. In case of the bottle being broken by accident, by untwisting the part *m* of the link *l* the band B may be opened out, and its bail, lever, cap, and stopple can be removed from the neck of the broken bottle.

The operation of my improvement is as follows: The elastic coniformed stopple *h* is placed in the mouth of the bottle, and the lever *e* thrown from the horizontal position represented in Fig. 4 to the vertical position shown in Figs. 1 and 3, the lever having an eccentric action, whereby the stopple is pressed down in the mouth of the bottle, so as to hermetically seal it and hold it in a locked position.

Having thus described my improvement, what I claim is—

The lever *e*, having side projections *x* and *x'*, combined with the bail-band and the cap *g*, pivoted to the side projection *x'*, said lever *e* being pivoted on the bail at *o*, the whole constructed, arranged, and operating as herein described, and for the purpose set forth.

CHARLES OTTO HAMMER.

Witnesses:

A. C. JOHNSTON,  
H. ADLER.