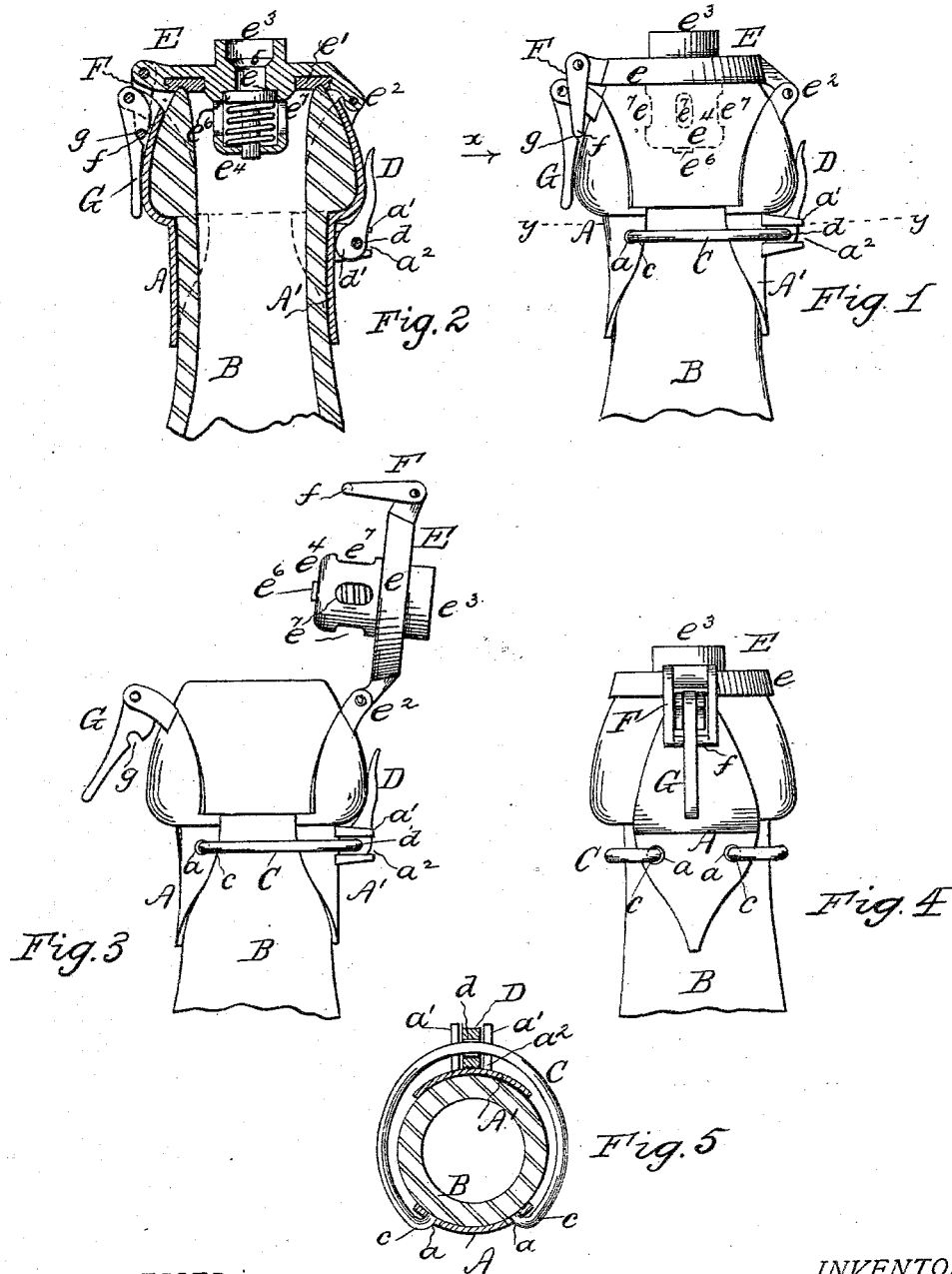


(No Model.)

J. HUNT.
BOTTLE STOPPER.

No. 301,599.

Patented July 8, 1884.



WITNESSES:
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JAMES HUNT, OF PHILADELPHIA, PA., ASSIGNOR OF TWO-THIRDS TO ANTHONY R. FINCK AND ROBERT H. MITCHELL, BOTH OF SAME PLACE.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 301,599, dated July 8, 1884.

Application filed October 1, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES HUNT, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification, reference being had therein to the accompanying drawings, wherein—

10 Figure 1 is an elevation of my bottle stopper and fastening devices in position for closing the top of the bottle. Fig. 3 is a like view of same, showing the stopper thrown back and the mouth of the bottle unsealed. Fig. 2 is a vertical section of Fig. 1. Fig. 4 is a side elevation looking in the direction of arrow *x*, Fig. 1; and Fig. 5 is a section on the line *y y*, Fig. 1.

15 My invention has for its object to provide a new and improved bottle stopper and fastener, which is especially adapted and designed to permit of the filling of the bottle through the stopper when it is in position upon the mouth of the bottle.

20 My invention has for its further object to so arrange and construct the stopper and fastener that they may be readily and easily secured to and disconnected from the bottle.

25 My invention therefore consists of the novel combination, construction, and arrangement of parts.

30 In the drawings, A and A' represent two metallic clamps, shaped to conform to the mouth or head and neck of the bottle B, as shown.

35 C is a wire bail, the ends *c c* of which enter openings *a a* in clamp A. Said bail passes through an aperture, *d*, in lever D, which has a cam-shaped end, *d'*, abutting against the clamp A', and is located between lugs *a' a'*, formed on clamp A, as more plainly shown in Fig. 5. Said lugs have horizontal slots *a'' a''*, between which the bail C passes, and is held in position thereby, so that it and the lever D are loosely connected to the clamps A A', whereby when said lever is turned upwardly, as indicated in Figs. 1, 2, and 3, its cam *d'*, impinging against the clamp A', moves the bail C to draw both clamps together and

lock them firmly in position upon the bottle 50 B. When lever D and bail C are reversely moved, said clamps recede from each other, and may then be disconnected from the bottle.

E represents the stopple, having the form of a disk, provided with a flange, *e*, and washer 55 *e'*, which seats upon the mouth-rim of bottle B, as shown. Said stopple is pivoted at *e''* to clamp A', has a central opening, *e'''*, terminating in a valve-chamber, *e''''*, in which is a seat, *e'''''*, for the spring-acting valve *e''''''*, and carries a 60 pivoted link, F. The chamber *e''''* is provided with lateral outlet-openings *e''''''*. To the clamp A, and in line with the link F, is pivoted a lever, G, having a notch, *g*, designed to receive the lower cross-bar, *f*, of link F, so that 65 when the lever G is moved downwardly or to the position shown in Figs. 1 and 2, said notch *g* engages with the link F to draw the stopple down upon the mouth of the bottle and seal the same. When lever G is reversely moved, 70 as indicated in Fig. 3, the link F may be disengaged therefrom and the stopple raised from the bottle to unseal the same, as illustrated in said figure. When the stopper is in position upon the bottle, it may be filled by introducing 75 a suitable nozzle into opening *e'''* and pressing down the valve *e''''*. When such operation is completed and the nozzle withdrawn, the spring surrounding valve *e''''* reacts to move the latter to its seat *e'''''*. If desired, the central 80 opening, *e'''*, and valve *e''''* may be dispensed with, in which case the bottle is filled in the ordinary way.

What I claim is—

1. In a bottle-stopper fastener, the combination of clamps A and A', and bail-connection 85 C, provided with lever D, loosely secured to said bail, and engaging with clamp A', substantially as shown and described.

2. In a bottle-stopper fastener, the combination of clamps A and A', lugs *a' a'*, with slots 90 *a'' a''*, the bail C, and lever D, having cam *d'*, substantially as shown and described.

3. In a bottle-stopper fastener, the combination of clamps A A', the latter having lugs 95 *a' a'*, a bail, C, the ends of which are secured to clamp A, and lever D, having an aperture for bail C, substantially as described.

4. The combination of clamps A A', fastening devices therefor, and the stopple E, pivoted to clamp A', and carrying pivoted link F, engaging with lever G, pivoted to clamp A, substantially as shown and described.

5. In a bottle-stopper fastener, the combination of clamps A A', fastening devices therefor, and a stopple pivoted to one of said clamps, and carrying a pivoted link engaging with locking mechanism located upon clamp A, substantially as shown and described.

6. The combination of clamps A A', locking or fastening devices therefor, a hinged stopple carrying a pivoted link, and locking mechanism for engagement with said link, substantially as shown and described.

7. The combination of clamps A A', bail C,

lever D, stopple E, having central opening, e^2 , and valve e^6 , link F, and locking-lever G, constructed and arranged substantially as shown and described.

8. The stopple E, provided with washer e' , flange e , central opening, e^2 , chamber e^4 , provided with lateral openings e^7 , and a valve-seat, e^8 , in its top, and a valve located in said chamber, and having a spring seated upon the bottom of the chamber e^4 , for holding the valve, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES HUNT.

Witnesses:

JOHN RODGERS,

S. J. VAN STAVOREN.