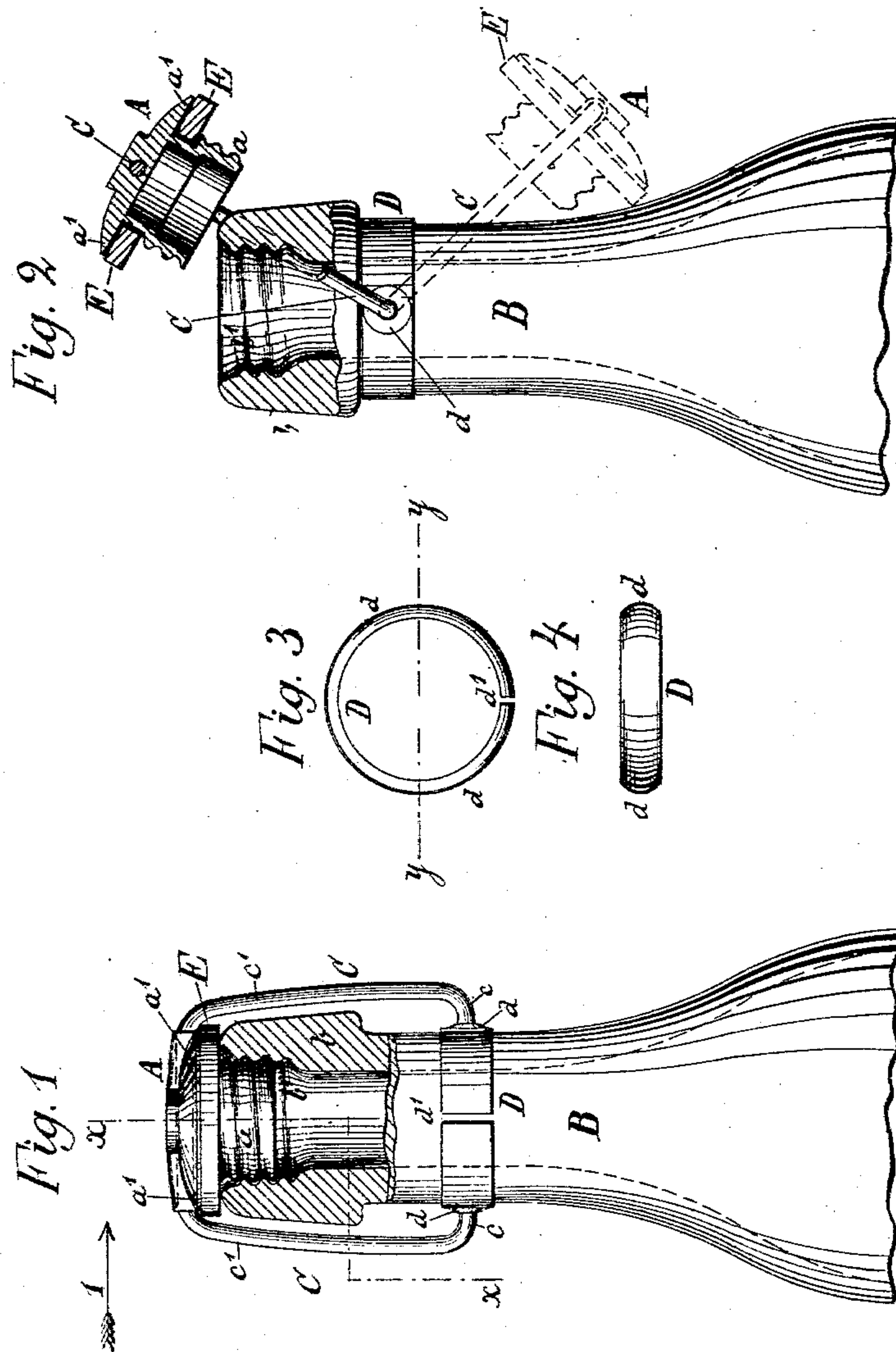


(No Model.)

A. F. KENT.
BOTTLE STOPPER.

No. 315,797.

Patented Apr. 14, 1885.



Witnesses:
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UNITED STATES PATENT OFFICE.

ALONZO F. KENT, OF NEW YORK, N. Y., ASSIGNOR TO THE NEW YORK BOTTLERS' SUPPLIES MANUFACTURING COMPANY, (LIMITED.)

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 315,797, dated April 14, 1885.

Application filed January 30, 1885. (No model.)

To all whom it may concern:

Be it known that I, ALONZO F. KENT, a citizen of the United States, and a resident of New York, in the county and State of New York, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

My invention relates to permanent bottle-stoppers, or such as remain attached to the bottle when removed from the aperture of the neck thereof.

My invention purports to produce a cheap and neat construction, which, while affording ready and secure fastening, allows of conveniently removing the stopper from one bottle to another, thus not wasting the stopper when a bottle is broken, avoids exposing the inclosed beverage to the fouling contact with a rubber stopple, and prevents the metallic cap from striking against the neck or breast of the bottle when the latter is opened and the cap swung aside.

The invention comprises a flanged screw-cap secured to a bail, which is pivoted with its inward-bent ends to a spring-band expansible over the head of the bottle, said band being fitted to slide and turn upon the bottle-neck. The cap has under its flange a flat packing-ring, which projects circumferentially beyond the flange, and receives the impact against the side of the bottle when the stopper is swung aside.

In the accompanying drawings, Figure 1 represents a side view of the upper part of a bottle provided with my improved stopper, the head of the bottle being shown in central section. Fig. 2 is a similar view in section on the line *xx* of Fig. 1, and seen in the direction of arrow 1. Fig. 3 is a plan view of one modification of the neck-band. Fig. 4 is a cross-section of the same on the line *yy* of Fig. 3.

A is the cap, made of pure tin and provided with threads *a*, which fit corresponding threads, *b'*, formed in the aperture of the head *b* of the bottle-neck B. The cap has a flange, *a'*, and below the flange a circumferential groove, in which fits a flat packing-ring, E, larger in diameter than the width of the cap across the flange *a'*. When the cap is screwed home, the ring E tightens against the upper edge of the

head *b*. The cap A is cast upon, and thus firmly secured to, a wire bail, C, which thence projects downward, and has its lower ends, *c*, bent inward and pivoted in holes through opposite welts or raised portions *d* upon a spring-band, D, open at *d'*. This band in attaching is expanded by depressing it over the head *b*, and closes snugly around the neck B, so as to turn and slide with the screwing in or out of the cap A, which operation is performed by grasping the bail at opposite points *c'* by the thumb and forefinger, thus gaining more leverage for comfortably tightening and unscrewing the cap than could be obtained by grasping the cap itself.

The rises *d* may be only round bosses surrounding the pivoted bail ends *c*, as in Fig. 1; but I prefer to make the rise continuous throughout the whole length of the band D by making the latter in the shape of a hollow semi-cylinder, as shown in Fig. 4, the latter form increasing the strength, elasticity, and neatness in appearance of the band.

The cap A may of course be made free to turn upon the central portion of the bail without preventing the proper operation of the device as a stopper; but to make it rigid is better, and has two distinct objects, one of them being to facilitate the adjustment of the cap relative to the aperture by handling it by the bail only, and the other to prevent the cap, when swung in the position shown in dotted lines in Fig. 2, from striking with its metallic portion against the side of the bottle, and instead thereof allow the impact to be made by the edge of the soft packing-ring E.

As the threaded stopper is of pure tin, and the packing-ring E touches only the upper inner edge of the head *b*, the objection of contact between the beverage and the ordinary rubber stopper is thus obviated.

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

1. In a bottle-stopper, the combination of the screw-cap A, bail C, and neck-band D, the said bail being attached with its central portion to the cap and pivoted with its ends to opposite points of the band, and the said band being free to turn and slide upon the neck B.

2. In a bottle-stopper, the combination of

the screw-cap A, bail C, and neck-band D, the said bail being attached with its central portion to the cap, and having its ends *c* bent inward to act as pivots for the bail, and the said
5 band having at opposite points a perforated rise, *d*, to receive the ends *c*, and being free to turn and slide upon the neck B.

3. In a bottle-stopper, the combination, with the screw-cap A and bail C, attached together
10 and pivoted substantially as described, of the spring-band D, having a continuous rise, *d*, perforated at opposite points to receive the bail ends *c*.

4. In a bottle-stopper, the combination, with
15 the neck-band D and the bail C, pivoted there-

to, of the screw-cap A, rigid upon the central portion of the said bail, and the packing-ring E, fitted underneath the cap-flange *a'*, to rest against the side of the bottle when the cap is swung aside, substantially as and for the purpose set forth. 20

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 28th day of January, 1885.

ALONZO F. KENT.

Witnesses:

A. W. ALMQVIST,

C. V. HELJESTRAND.