

(No Model.)

C. C. BROWN.  
BOTTLE NECK AND CAP.

No. 556,804.

Patented Mar. 24, 1896.

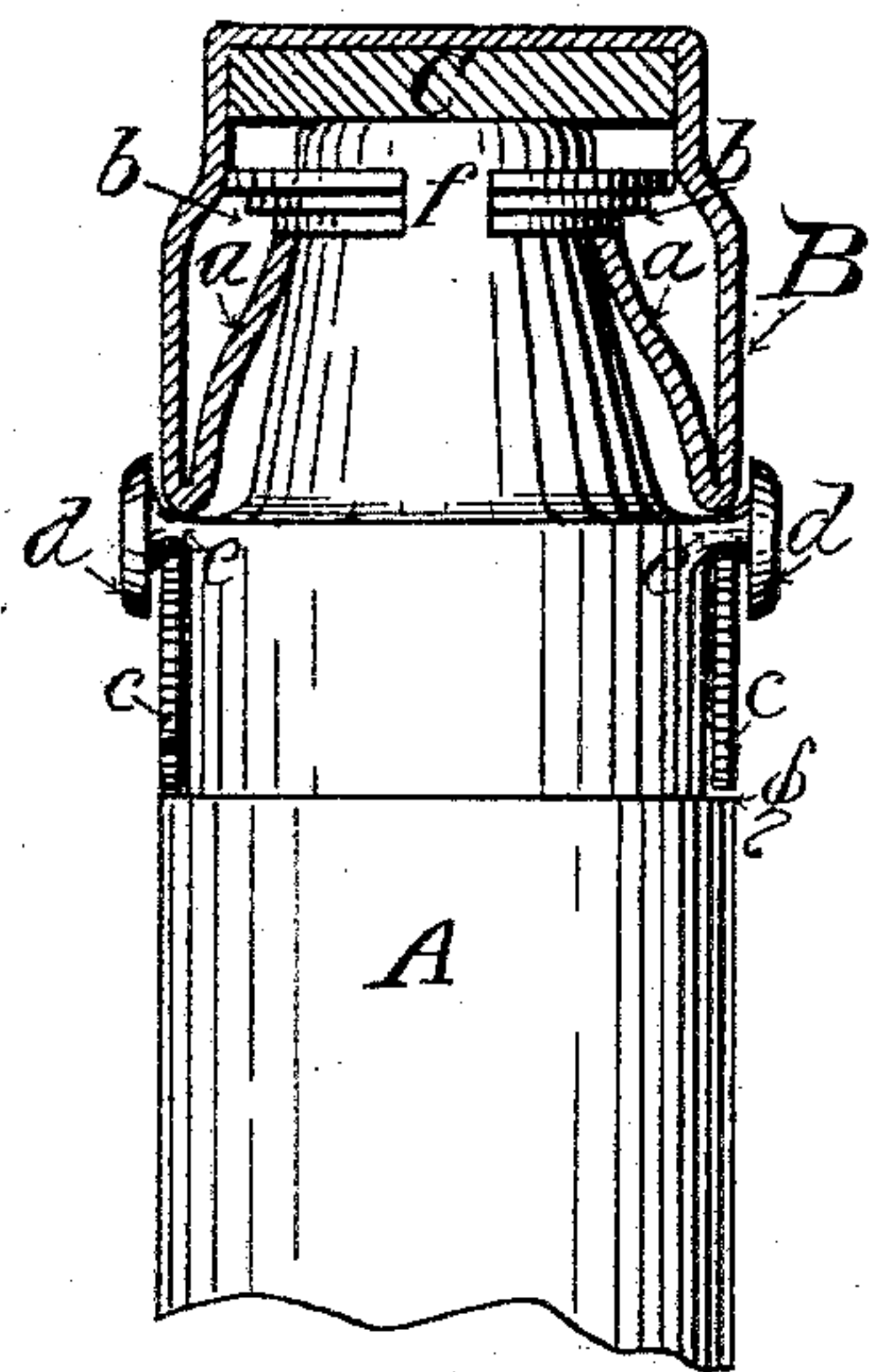


Fig. 1

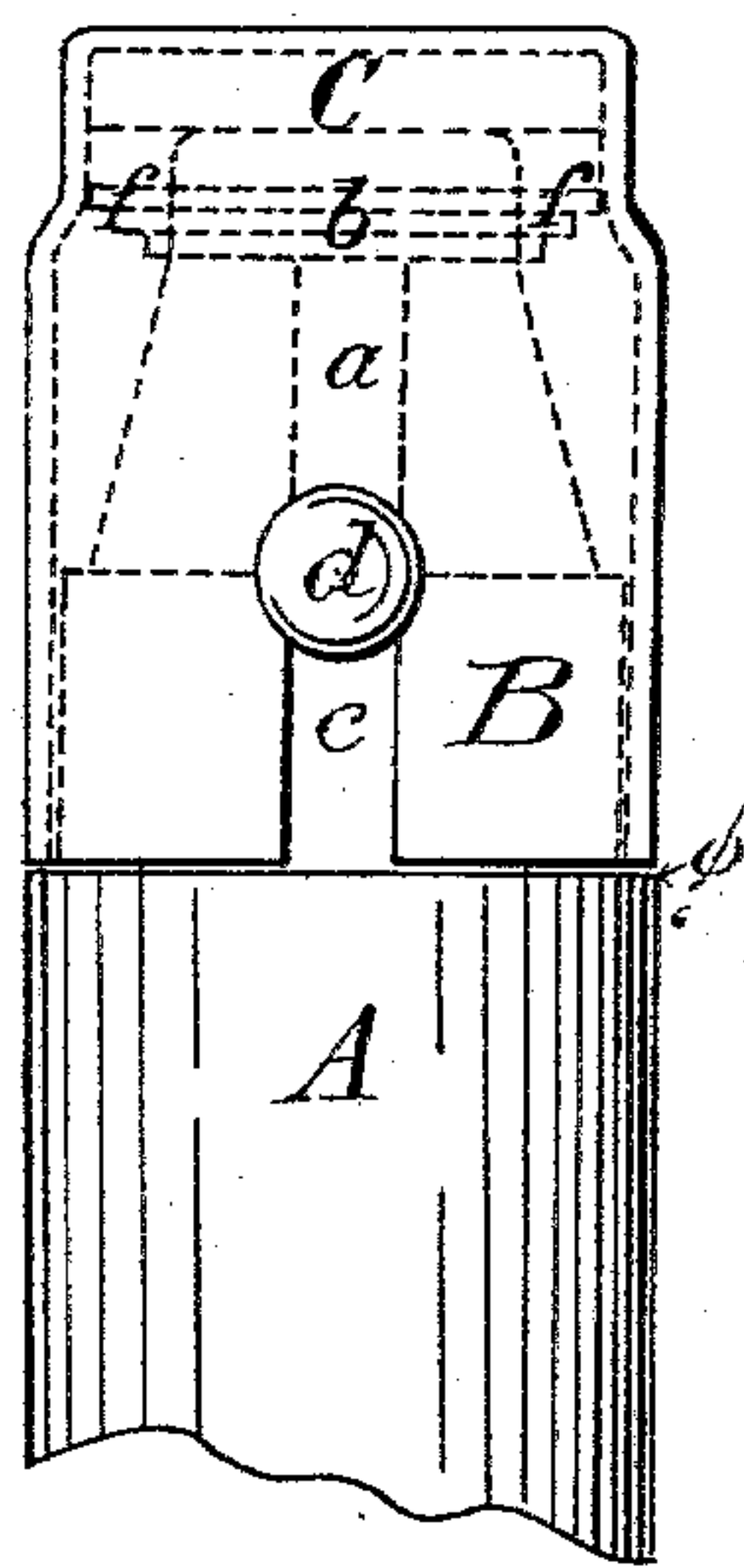


Fig. 2

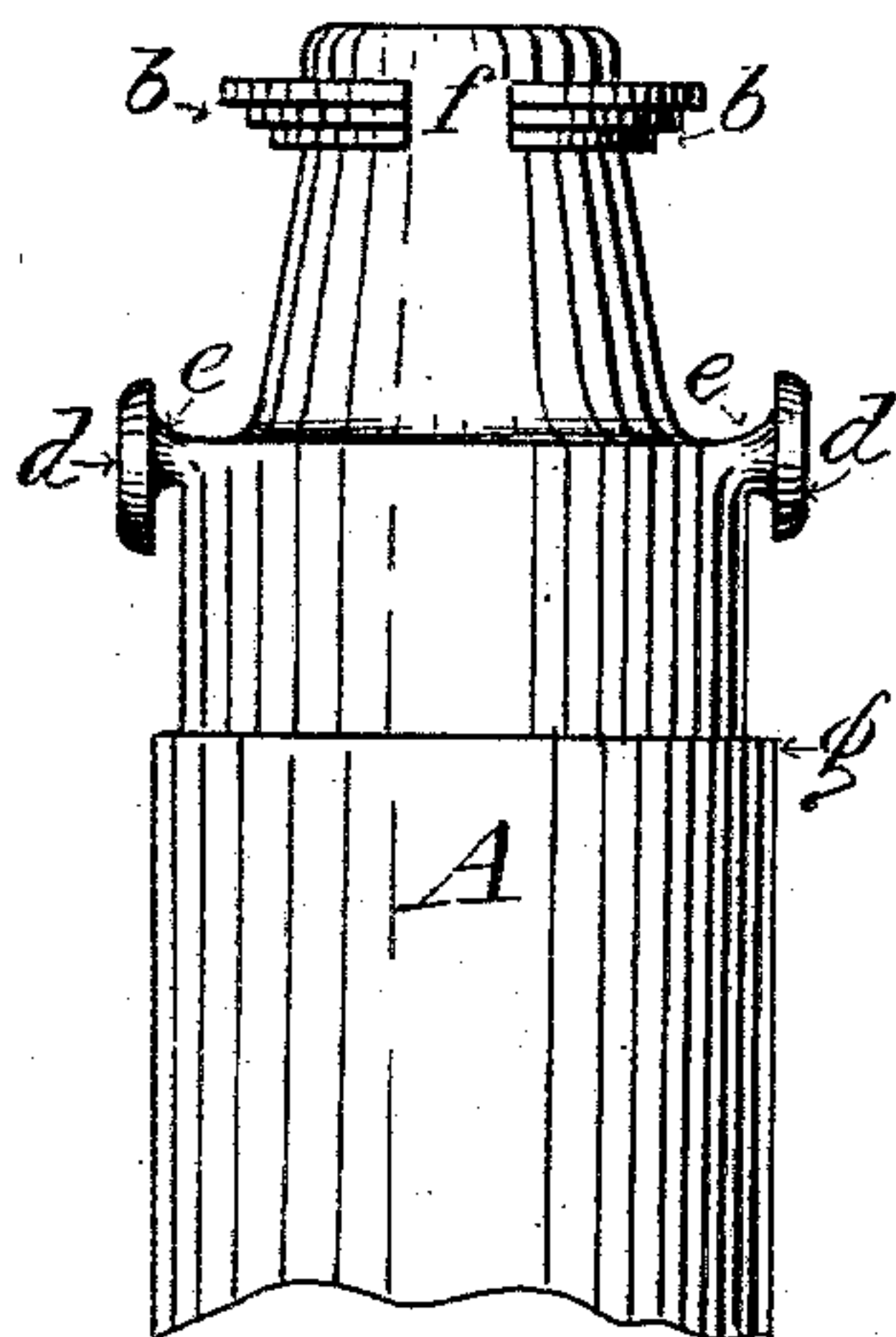


Fig. 3

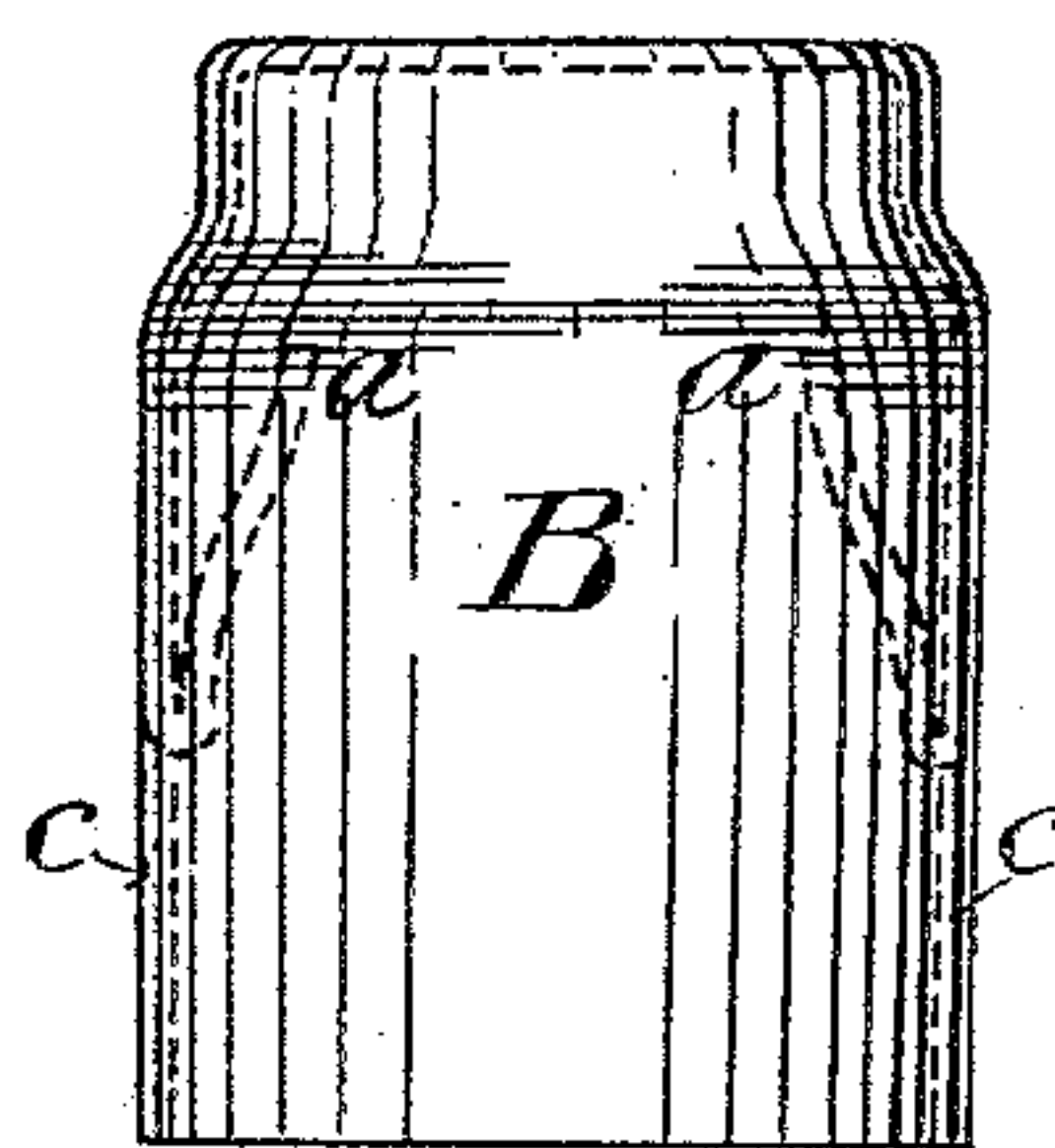


Fig. 4

Witnesses  
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# UNITED STATES PATENT OFFICE.

CHAUNCEY C. BROWN, OF MARQUETTE, MICHIGAN.

## BOTTLE NECK AND CAP.

SPECIFICATION forming part of Letters Patent No. 556,804, dated March 24, 1896.

Application filed October 9, 1895. Serial No. 565,189. (No model.)

*To all whom it may concern:*

Be it known that I, CHAUNCEY C. BROWN, a citizen of the United States, residing at Marquette, in the county of Marquette and State of Michigan, have invented a new, useful, and Improved Device for Constructing a Bottle Neck and Cap with Automatic Sealer, of which the following is a specification.

The object of my invention is to provide a bottle neck and cap, with automatic sealer, which cannot be removed without the mutilation of the bottle-neck. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view of the bottle-neck with vertical sectional view of the bottle cap and sealer in place. Fig. 2 is a view of the bottle-neck with cap and sealer in place and both turned at right angles from the position shown in Fig. 1. Fig. 3 is a view of the bottle-neck. Fig. 4 is a view of the bottle-cap with springs before adjusted to the bottle for use, as shown in Fig. 1.

Similar letters refer to similar parts throughout the several views.

A is a bottle-neck, of glass or other suitable material, provided with a shoulder or series of shoulders *b b* arranged in an inverted conical order, in which there are recesses *f f*, and with knobs or projections *d d* connected by tapering necks *e e*, which knobs or projections *d d* are placed at right angle, with recesses *f f* in shoulder or series of shoulders *b b*, and also with a shoulder *g*.

B is a bottle-cap, made of steel or other metallic substance, provided with recesses or slits *c c* and springs *a a*, which are formed by bending inwardly the steel or other metallic substance cut away to form the recesses or slits *c c*, or by attaching separate pieces.

C is a pad of cork or other substance used for making a perfectly tight connection between the top of the bottle-neck A and the inside of the top of bottle-cap B.

The several parts as described above are used in connection with each other as follows: The pad C is placed within and at the

top of the bottle-cap B. Bottle-cap B is then placed over the top of bottle-neck A in such a manner that the recesses *c c* in the bottle-cap B engage with the tapering necks *e e* of knobs or projections *d d*, the lower edge of the bottle-cap B coming in conjunction with the shoulder *g* of the bottle-neck A. As the bottle-cap B is placed over the bottle-neck A the springs *a a* of bottle-cap B recede in passing the shoulder or series of shoulders *b b* of the bottle-neck A, and when passed the springs *a a* of bottle-cap B engage with the shoulder or series of shoulders *b b* of bottle-neck A in such a manner as to automatically lock the bottle-cap B to the bottle-neck A. In order to remove bottle-cap B from bottle-neck A, it is necessary to break the necks *e e* of the knobs or projections *d d* to permit turning the bottle-cap B around sufficiently to allow the springs *a a* of the bottle-cap B to pass through the recesses *f f* in the shoulder or series of shoulders *b b* of the bottle-neck A.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a bottle neck, cap, and automatic sealer; the combination with cylindrical vessel A provided with shoulder *g*, necks *e e* and knobs *d d* and shoulders *b b* with recesses *f f*, all substantially as shown and described.

2. In a bottle neck, cap and automatic sealer; the combination with cylindrical cover B, provided with slits *c c* and springs *a a*, all substantially as shown and described.

3. In a bottle neck, cap and automatic sealer; the combination with cylindrical vessel A, provided with shoulder *g*, necks *e e* and knobs *d d* and shoulders *b b* with recesses *f f*; in connection with cylindrical cover B, provided with slits *c c* and springs *a a*; in connection with pad C, all substantially as shown and described.

CHAUNCEY C. BROWN.

Witnesses:

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