

(No Model.)

C. T. GROSJEAN.

BOTTLE TOP.

No. 322,370.

Patented July 14, 1885.

Fig. 1.

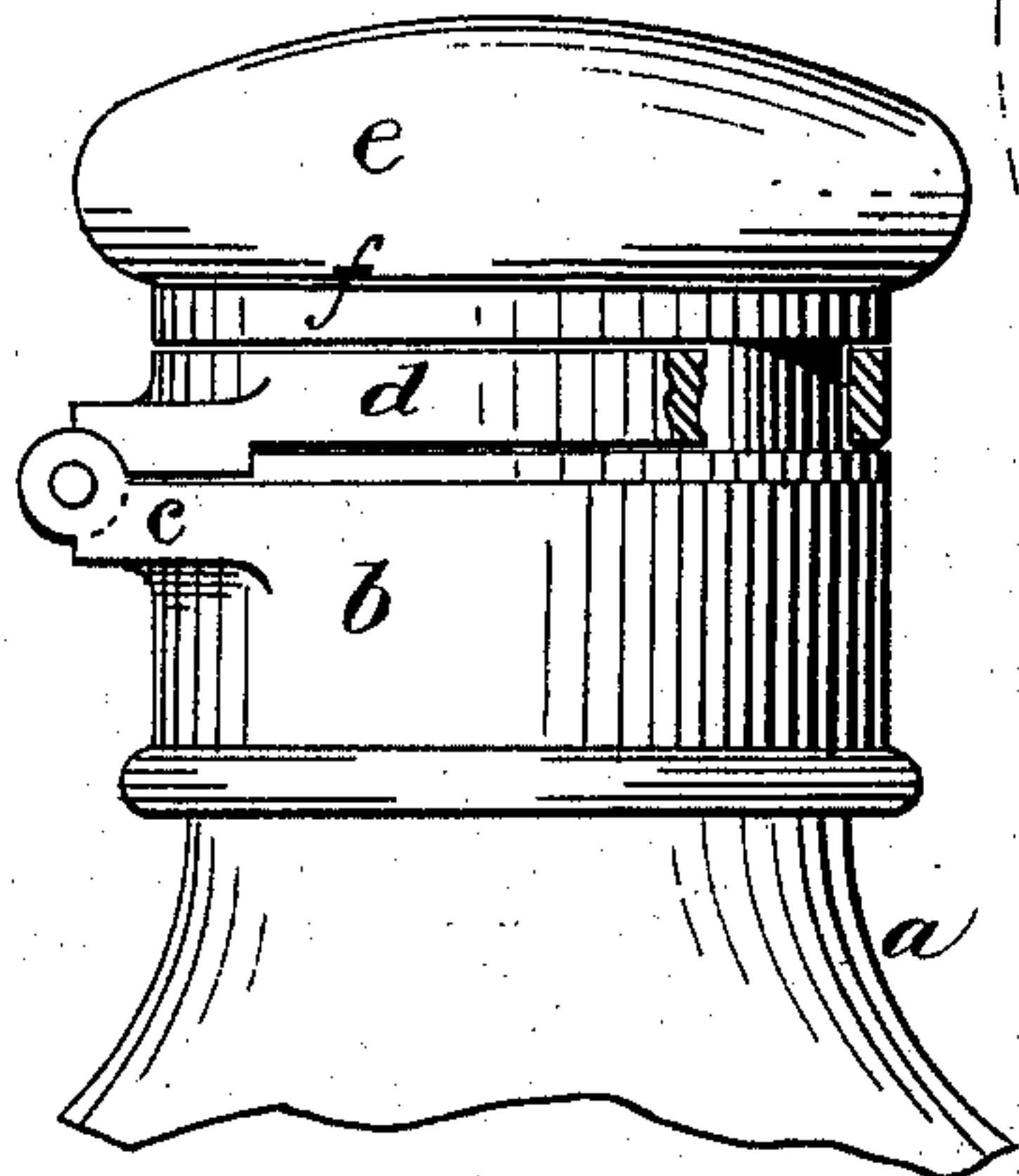


Fig. 2.

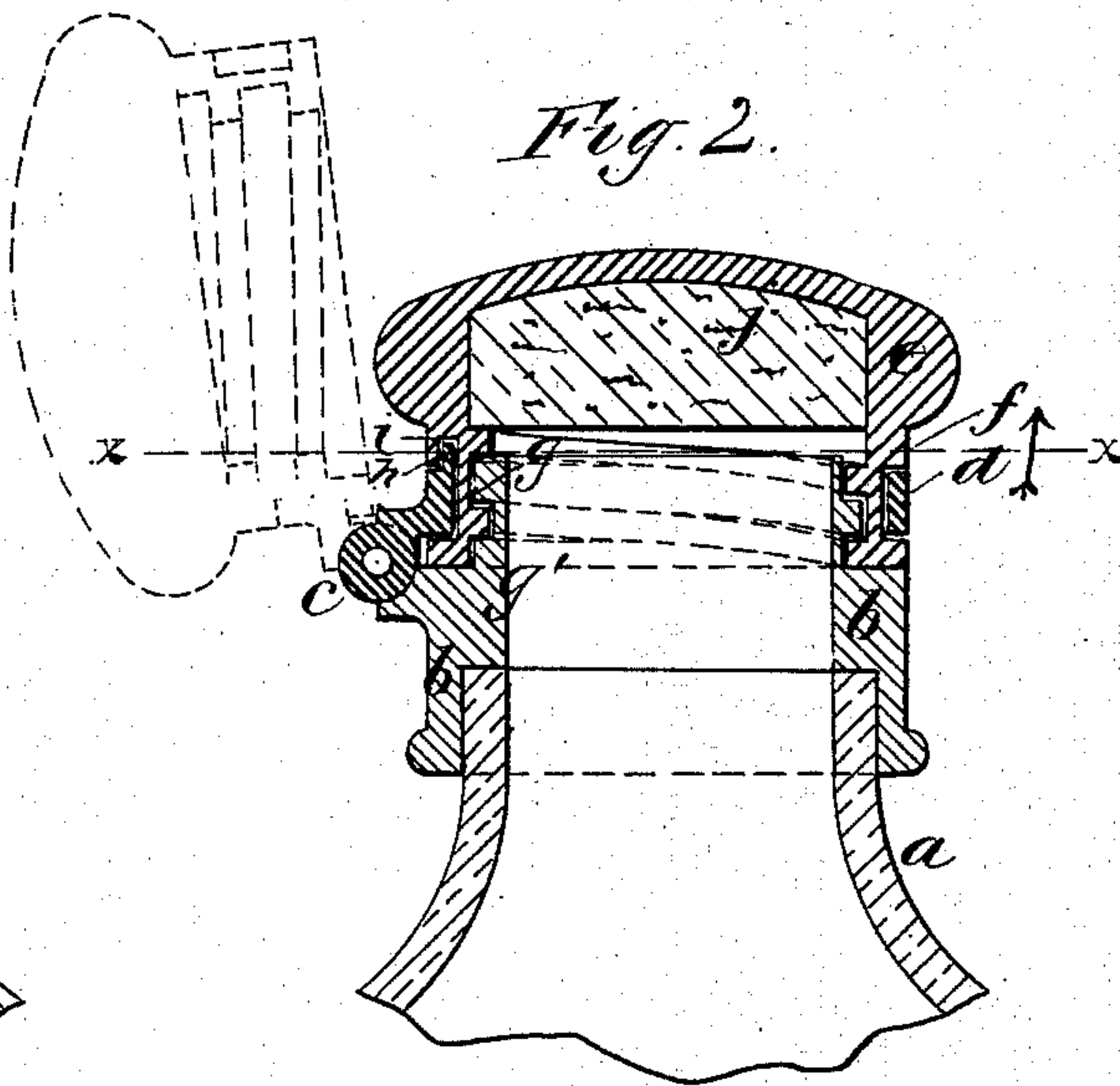


Fig. 3.

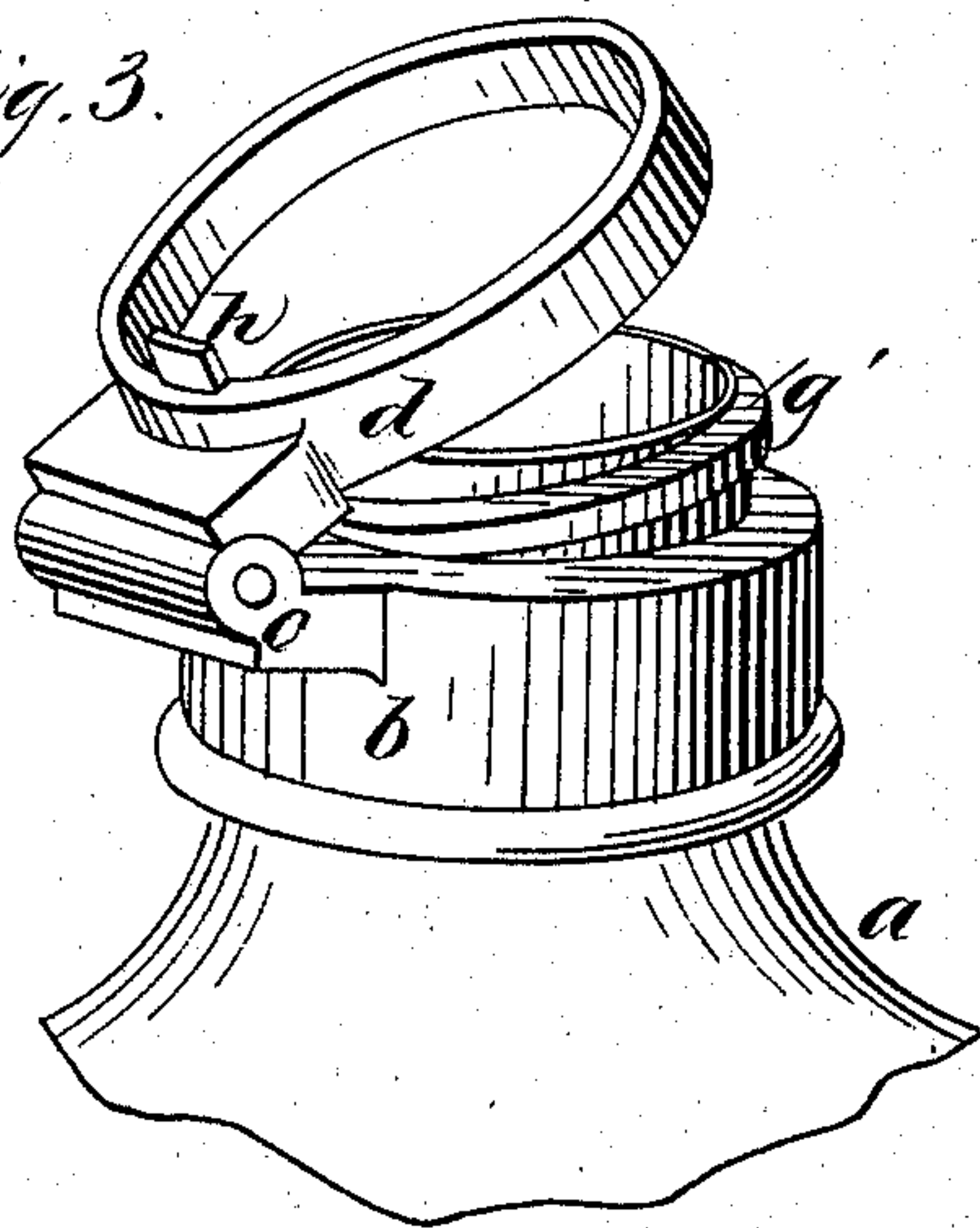
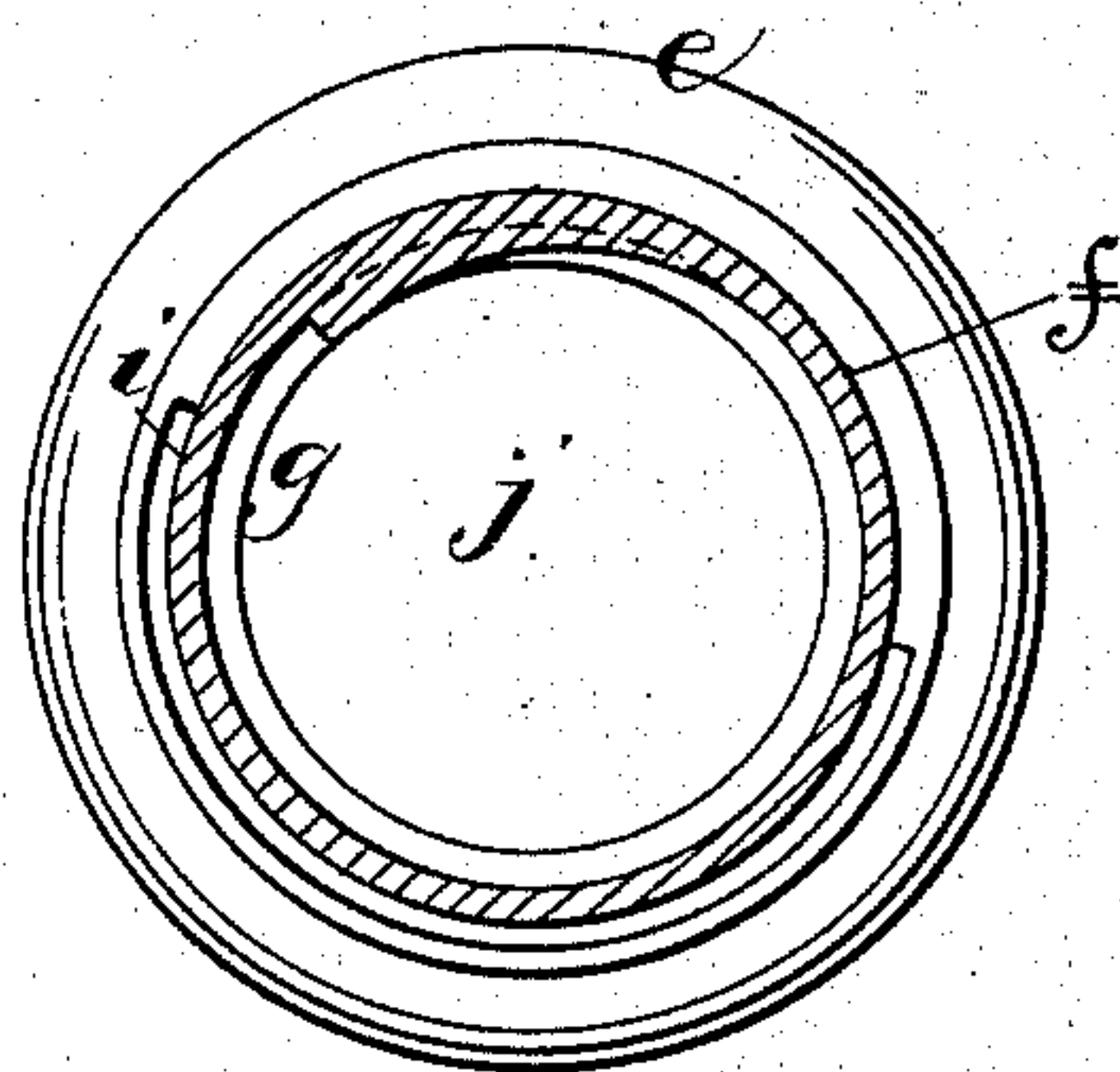


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE,

CHARLES T. GROSJEAN, OF NEW YORK, N. Y., ASSIGNOR TO TIFFANY & CO.,
OF SAME PLACE.

BOTTLE-TOP.

SPECIFICATION forming part of Letters Patent No. 322,370, dated July 14, 1885.

Application filed May 27, 1885. (No model).

To all whom it may concern:

Be it known that I, CHARLES T. GROSJEAN, of the city of New York, State of New York, have invented a certain new and useful Improvement in Bottle-Tops, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

This invention relates to an improvement in bottle-tops by means of which the top is always connected to the neck of the bottle, and at the same time it can be very easily and rapidly secured down to the neck, and in such a manner that a tight joint is always secured, and thereby all leakage being prevented in case of shrinkage of the cork or rubber impinging on the top edge of the neck.

In the drawings, Figure 1 is a side view of the neck of a bottle containing my improvement. Fig. 2 is a central vertical section thereof. Fig. 3 is a perspective view of a bottle-neck with my improved top applied thereto, with the cover removed from the hinged ring retaining it to the neck of the bottle. Fig. 4 is a cross-section of the cover, taken on the line *x x* of Fig. 2, looking in the direction of the arrow.

a is the neck of the bottle. *b* is a flange secured thereto by cement or other proper fastening. To this flange, on a projection, *c*, is hinged a ring, *d*.

e is the top or cover. In its wall *f* is an annular groove in which the ring *d* is secured, permitting of a movement of the cover *e*, so as to enable the screw-thread *g*, on the inner periphery of the wall thereof, to turn down onto the screw-thread *g'*, cut upon the flange *b*.

In order to determine the extent of the movement of the cover *e* in its thus being screwed down onto the flange *b*, and also the point at which its thread *g* shall commence to engage with the screw-thread *g'*, there is placed at *h*, on the top of the ring *d*, a small lug or stop. This stop *h* moves in a groove placed in the wall of the cover *e* at *i*. This groove *i* extends part way around within said wall, so that the stop *h* may act as a stop as the cover *e* is turned either to the right or to the left, determining the extent of rotation of

said cover at the commencement of its thread *g* to engage with the screw-thread *g'*, and the extent to which it should be turned down so as to completely secure it on such screw-thread thus being turned from the right hand to the left or from left to right, as occasion may require, to fasten or unfasten the cover down to the top of the bottle. The stop *h* brings up against one end of such annular groove and determines the point at which the turning down of the screw-thread *g* of the cover *e* shall engage with the screw-thread *g'*. The cover *e* is then rotated from the left to the right, and the stop *h* brings up against the end of the wall, or nearly so, as the engagement of the cover *e* is complete on such screw-thread *g*. A little clearance is to be left between it and such end of the wall, to allow for the wearing down of the cork or rubber placed inside of the cover *e* and impinging on the top edge of the vertical wall of the flange *b*, so that in case of the shrinkage of such cork or rubber a little further turning down of the cover *e* will take up the space left by reason of such shrinkage and thus secure a tight joint during the life of the bottle. There is thus produced a screw-top connected to the neck of the bottle, which at once determines the point at which the screw-threads are to be engaged, without the liability of engaging at a wrong point, which thus unnecessarily wears away the screw-threads; and at the same time there is a screw-top, that during the time the bottle is in use any wear or shrinkage of the rubber or cork, which heretofore has caused leakage, will be taken up.

I claim—

1. In a bottle-top, the combination of a cover hinged to the neck of the bottle with a stop for determining the point at which the screw-thread in said cover shall engage with the screw-thread on the neck of the bottle, substantially as described.

2. In a bottle-top, the combination of a cover hinged to the neck of the bottle with a stop for determining the point at which the screw-thread in said cover shall engage with the screw-thread on the neck of the bottle, and a groove by means of which the extent of screw-

ing down of the cover on said neck is permitted so as to allow of the taking up of any space between the rubber or cork and the top of the wall of the neck which may be left by
5 the wear of such rubber or cork, substantially as described.

3. In a bottle-top, the combination of a flange, *b*, to which is hinged a ring, *d*, said ring con-

taining a projection or stop, *h*, and operating within a groove, *i*, placed in the wall of the cover *e* to secure said cover to the top, substantially as described.

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Witnesses:

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