

(No Model.)

G. DUCRO.
BOTTLE STOPPER.

No. 270,765.

Patented Jan. 16, 1883.

Fig. 1.

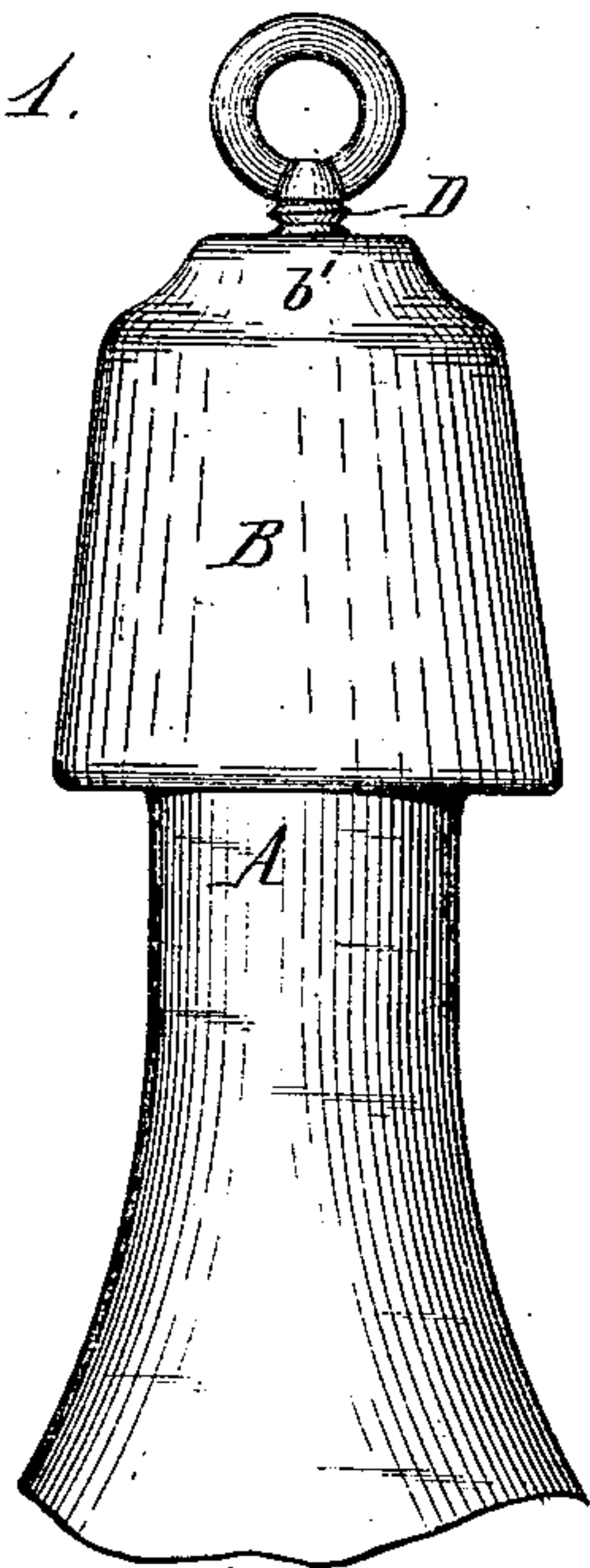


Fig. 2.

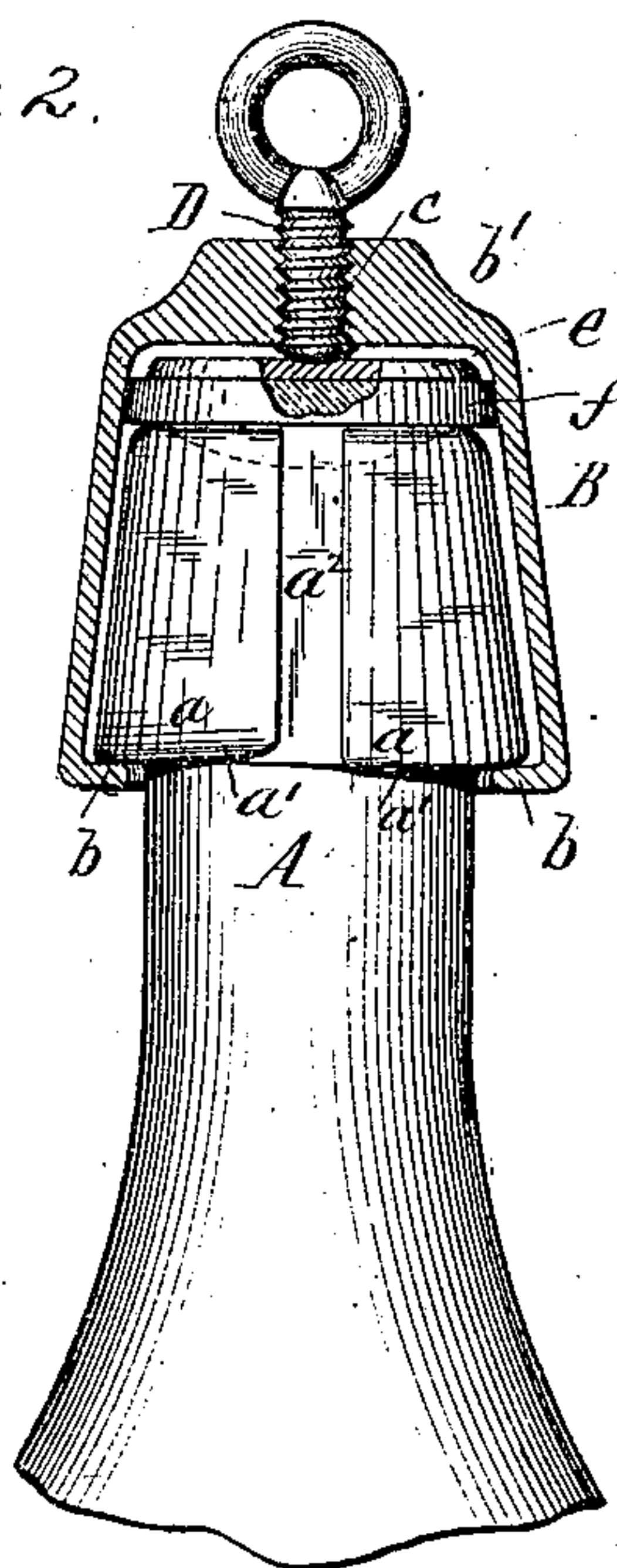


Fig. 3.

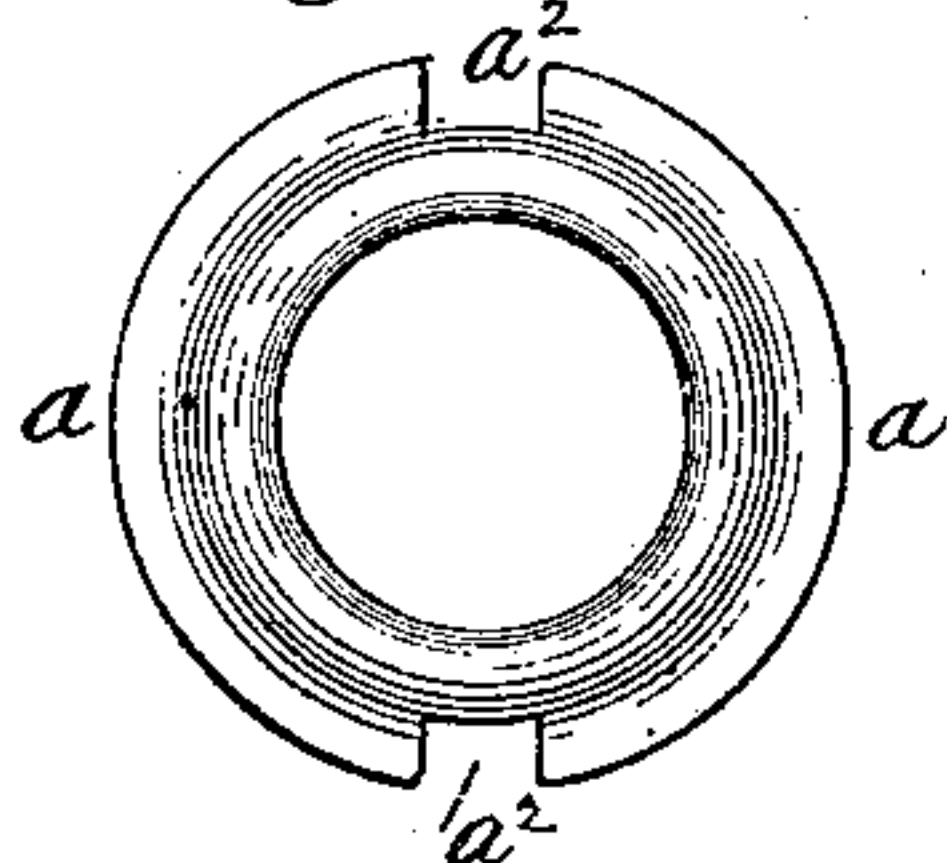
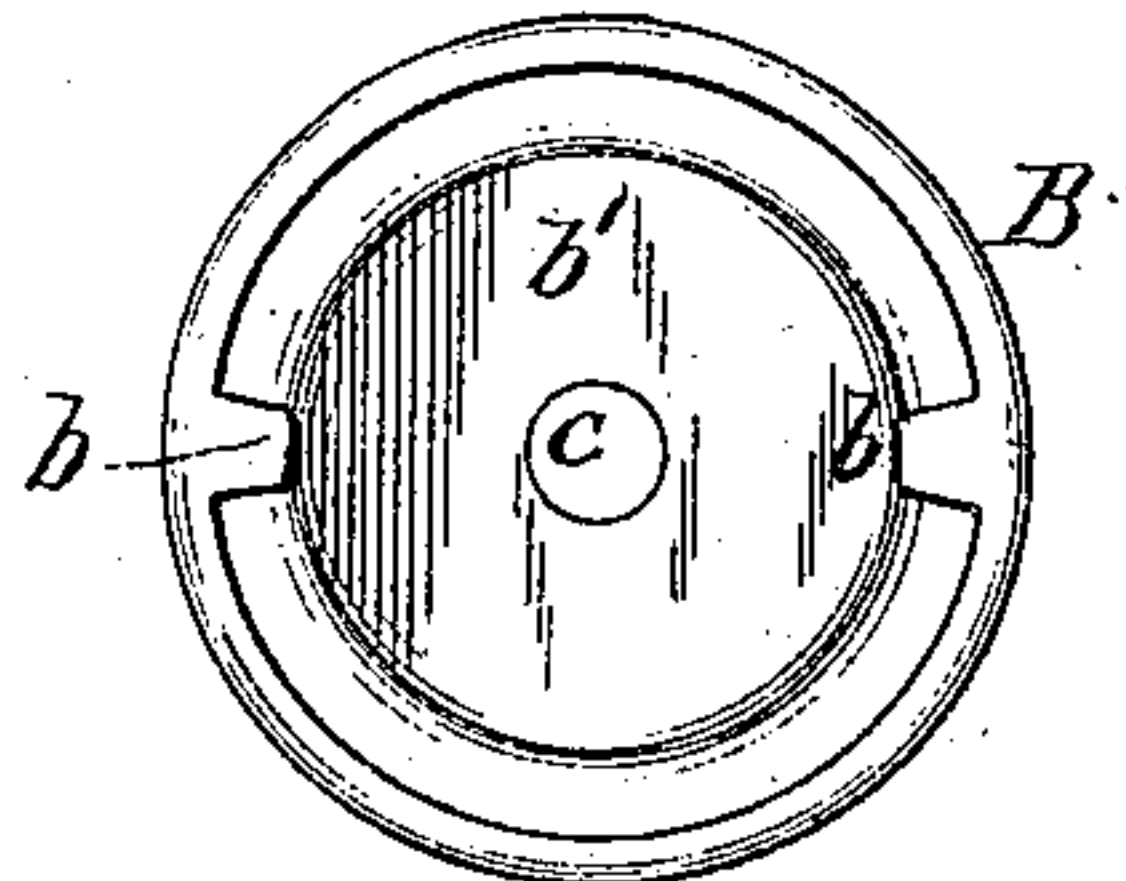


Fig. 4.



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UNITED STATES PATENT OFFICE.

GREGORY DUCRO, OF BUFFALO, NEW YORK.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 270,765, dated January 16, 1883.

Application filed November 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, GREGORY DUCRO, of the city of Buffalo, in the county of Erie and State of New York, have invented new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

This invention has reference more particularly to that class of stoppers for bottles, fruit-jars, and the like in which the mouth or neck of the bottle or fruit-jar is provided with inclined ledges or shoulders on its outer surface, and the stopper provided with a bail or clamp, which engages with said inclined ledges, and by means of which the stopper is firmly clamped or secured to the mouth of the bottle.

My invention has for its object to improve the construction of this class of stoppers; and it consists in the particular construction of the stopper which will be hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a side elevation of my improved stopper, and Fig. 2 is a sectional elevation thereof. Fig. 3 is a top plan view of the mouth of the bottle with the stopper removed. Fig. 4 is a bottom plan view of the stopper.

Like letters of reference refer to like parts in the several figures.

A represents the upper portion or neck of a bottle or fruit-jar, and *a a* are two ledges or shoulders having inclined lower sides, *a'*, and applied to the outer surface of the bottle or jar below its mouth, and separated by vertical slots *a²*, arranged diametrically opposite each other.

B represents a metallic cap or cover, which is preferably cast of malleable iron and made to fit snugly over the neck of the bottle. The cap B extends slightly below the inclined shoulders *a*, and is provided at its lower end with inwardly-projecting lugs or ears *b*, which are arranged diametrically opposite each other, so as to engage under the inclined lower sides, *a'*, of the ledges *a*. The lugs *b* are made somewhat narrower than the slots *a²*, so that the lugs can be readily passed through the slots in applying the cover to the bottle or jar. The top *b'* of the cap B is preferably cast solid and provided with a screw-threaded hole, *c*, in which is inserted a thumb-screw, D, which

bears against a metallic washer, *e*, seated in the cap B.

f is a rubber washer arranged below the metallic washer *e* and bearing against the mouth of the bottle. The rubber washer *f* is made large enough so that when inserted in its place in the cap B it will retain the metallic washer *e* in its proper position and prevent it from falling out.

The cap or cover B is readily secured to the bottle by passing the lugs *b* through the slots *a²* until the lugs reach the inclined shoulders *a*, when, by a slight turn of the cover, the lugs *b* wedge themselves against the inclined lower sides, *a'*, of the shoulders *a* and firmly hold the cover in place. The rubber washer *f* is thereby compressed between the mouth of the bottle and the top of the cover, and the mouth of the bottle or jar is tightly closed. Upon tightening the thumb-screw D against the metallic washer *e* the latter presses the rubber washer *f* against or slightly into the mouth of the bottle. By this means the bottle or jar can be more tightly closed, if necessary, than by the wedging action of the lugs and inclined shoulders. The cover B forms a rigid connection between the lugs *b* and the other operative parts of the stopper, and enables the bottle or jar to be tightly closed without danger of leakage by the yielding of the cover. Upon removing the cover and the washers the mouth of the bottle or jar is entirely unobstructed, and its contents can be removed, and when empty it is easily cleaned. The cover B, when applied to the bottle or jar, incloses the shoulders *a* and prevents breakage of the same.

I claim as my invention—

The combination, with a bottle or jar having its neck provided on its outer side with shoulders *a*, inclined on their lower sides, of a cover or cap, B, inclosing the neck or upper portion of the bottle or jar, and provided with lugs *b*, a threaded hole, *c*, screw D, and washers *e f*, substantially as set forth.

GREGORY DUCRO.

Witnesses:

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