

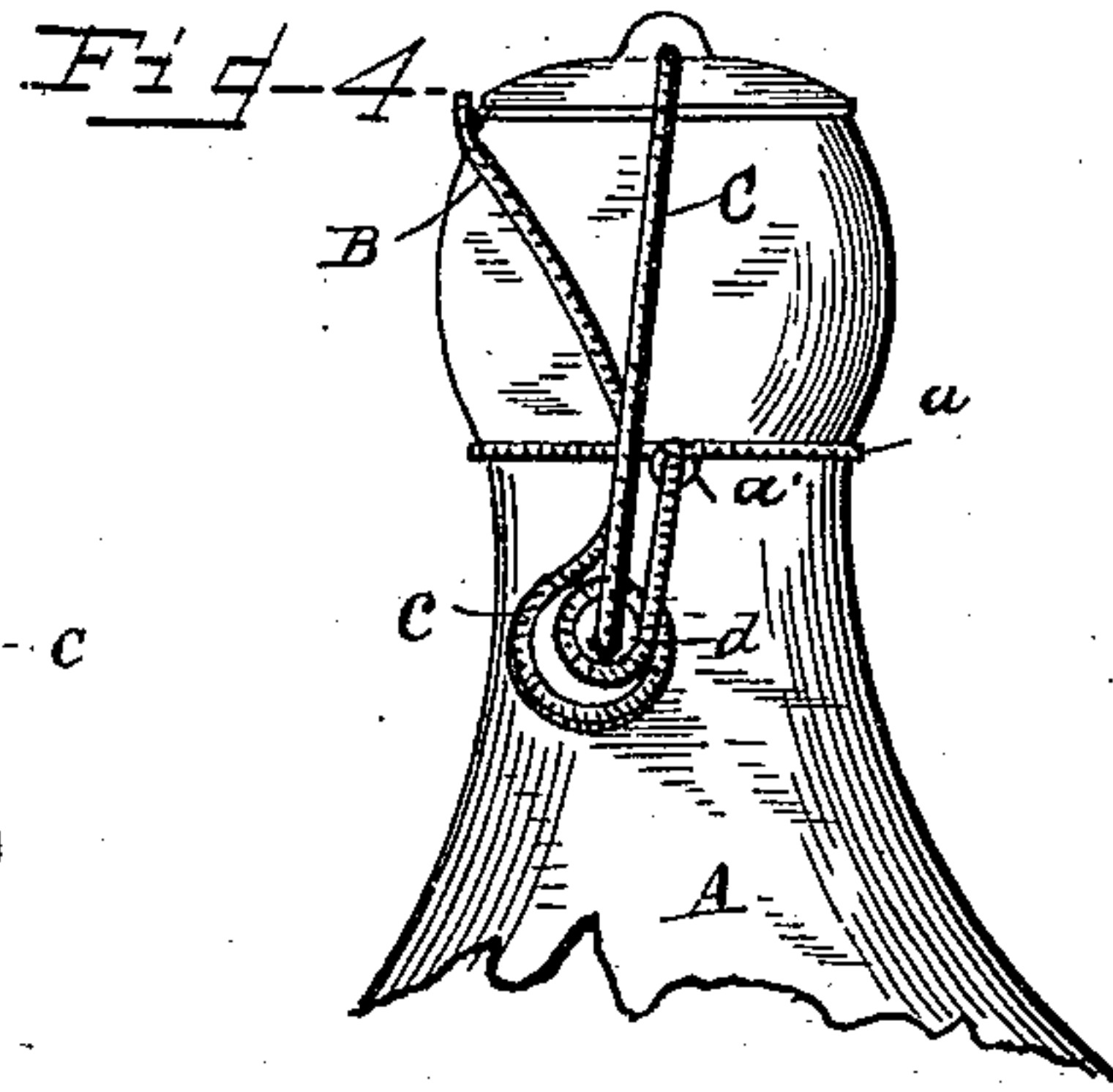
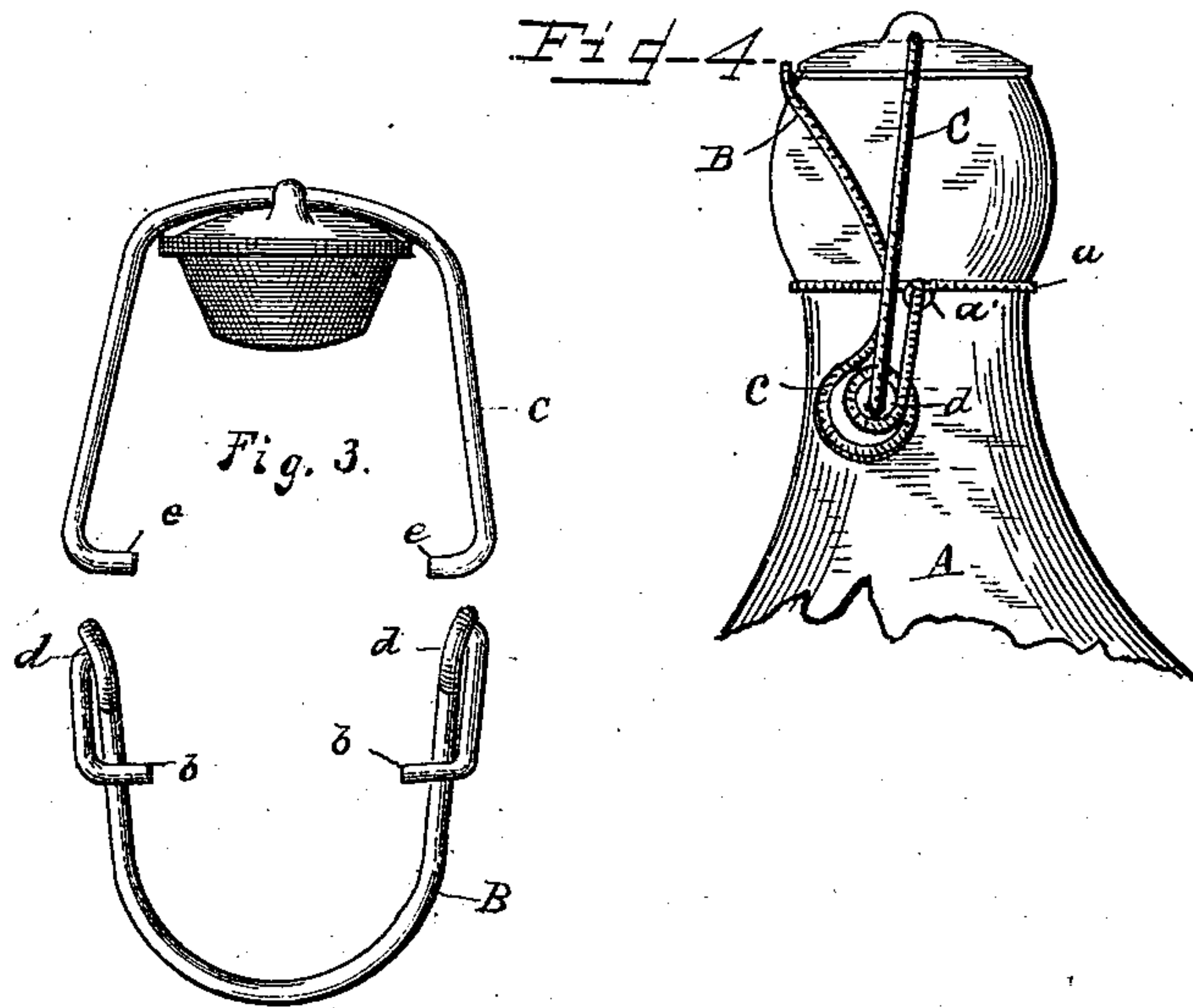
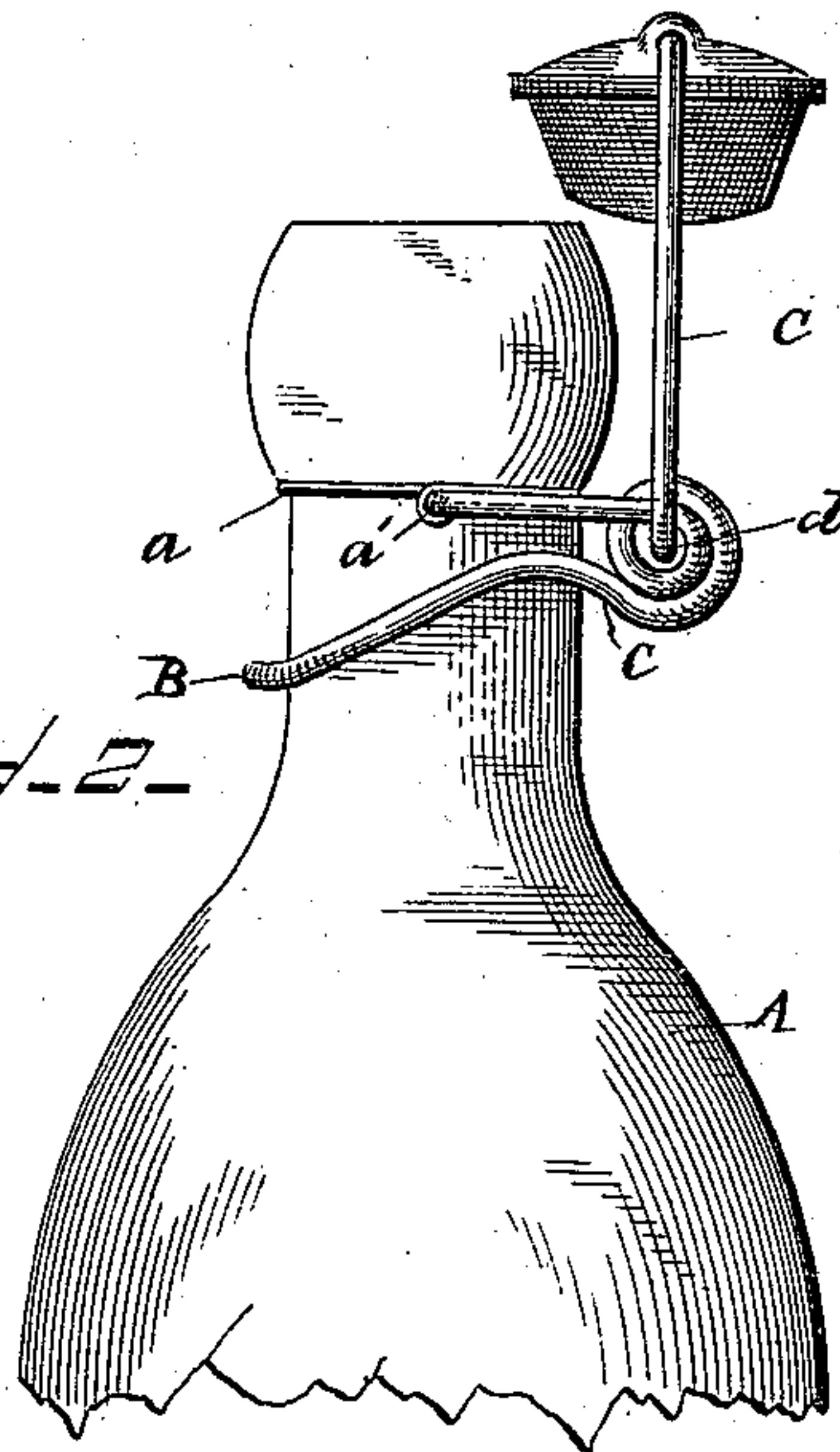
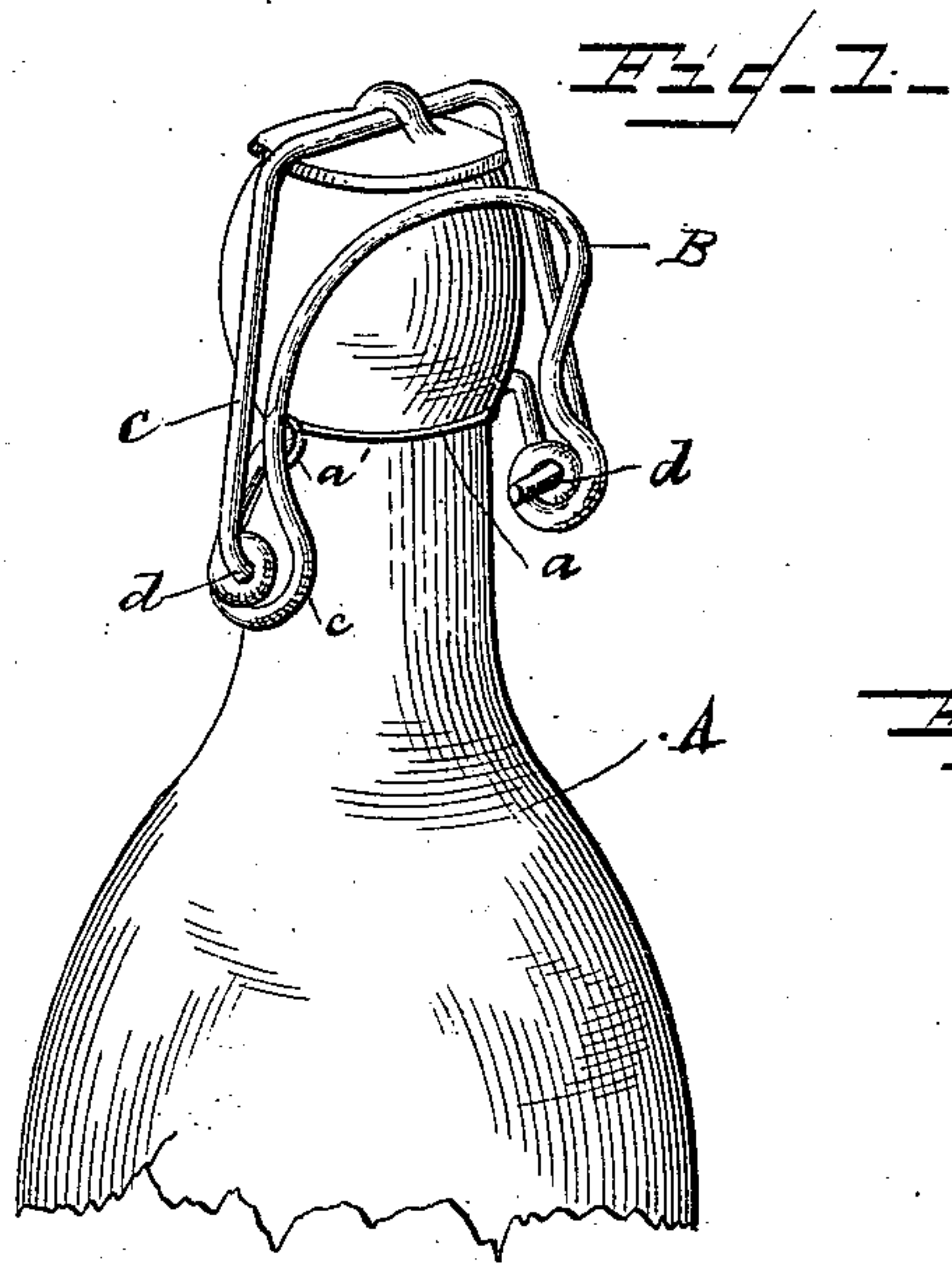
(Model.)

S. S. WOODBURY.

STOPPER FASTENER.

No. 355,748.

Patented Jan. 11, 1887.



Witnesses
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Inventor
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UNITED STATES PATENT OFFICE.

SAMUEL S. WOODBURY, OF BRADFORD, PENNSYLVANIA.

STOPPER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 355,748, dated January 11, 1887.

Application filed March 25, 1886. Serial No. 196,463. (Model.)

To all whom it may concern:

Be it known that I, SAMUEL S. WOODBURY, a citizen of the United States, residing at Bradford, in the county of McKean and State of Pennsylvania, have invented certain new and useful Improvements in Bottle-Stopper Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to bottle-stopper fasteners, the object being to provide a fastener which may be readily and quickly locked and unlocked, which shall be simple in its construction, and one by which the stopper may be removed from the mouth of the bottle by a single movement of the bail or operating-lever.

Heretofore in bottle-stopper fasteners it has been necessary to raise the bail or operating-lever to allow the stopper to be removed from the mouth of the bottle. This has been objectionable, since the said bail or operating-lever fits the side of the bottle tightly, and it requires some considerable force to unlock the parts, all of which difficulty is overcome by my improvements.

My invention consists in the details of construction and combinations of parts hereinafter fully described, and pointed out in the claim.

In the drawings, Figure 1 is a perspective view of a bottle with my improved stopper-fastening applied thereto, the stopper being shown in a locked position. Fig. 2 is a side elevation showing the position of the parts when the stopper is removed from the mouth of the bottle. Fig. 4 is a side elevation showing the stopper closed, and Fig. 3 is a detail view.

Referring to the drawings, A represents the bottle, around the neck of which is secured a piece of wire, *a*, which is bent at points on opposite sides of the neck to form eyes *a'*.

B represents a bail or lever, which is constructed of a single piece of wire. The ends of this bail or lever are bent inwardly, as shown, to form pivots *b*, which engage the eyes *a'* of the wire, and upon which the bail or lever swings. The bail or lever extends downwardly for a short distance, as at *c*, and

is at that point turned or bent to form double loops *d*, which, in addition to serving as bearing for the arms carrying the stopper, as will be more fully described, also serve as finger-pieces for operating the bail to remove the stopper from the mouth of the bottle. The closed free end of the bail or lever is bent upwardly, as shown at *d*, and fits closely against the head of the bottle when the stopper is locked.

C represents a bent arm of wire, and upon which the stopper is pivotally mounted. The lower ends of this arm are bent inwardly, as at *e*, and engage the loops *d*, thus pivotally connecting the arm and bail.

It will be observed that by providing the double eyes or loops and bending the bail, as at *c*, convenient finger spaces or holds are provided, so that by pressing downwardly and slightly inwardly on said eyes the arm C will be unlocked.

It will be observed that when the closed free end of the bail or lever is lowered from the position shown in Fig. 1, by pressing downwardly and laterally on the loops *d*, the said loops will be moved laterally and upwardly, and as the arm carrying the stopper is pivoted to said loops it will be apparent that the stopper will be raised from the mouth of the bottle.

The bail or lever is so bent that when the stopper is locked the lower ends of the arm carrying the stopper will occupy a position to one side of the center of the bottle, thus holding the stopper firmly and securely in a locked position and preventing any possibility of its accidental displacement.

By arranging the operating-bail to fit closely against the head of the bottle all liability of the bail or lever to become accidentally unlocked by striking an object, as when the bottles are being handled, is prevented.

I am aware that it is not broadly new to provide a pivoted bail or lever with eyes or loops and to pivotally connect a bent arm carrying a stopper to said bail or lever; but,

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

The combination, with a bottle having a wire secured around its neck and bent to form

eyes or loops, of a bail having a closed free
end fitting closely against the head of the bot-
tle, and formed with double eyes or loops *d*,
and bent as at *e*, for the purpose set forth, the
5 free ends of the bail being pivoted to the eyes
or loops of the wire, and an arm carrying a
pivoted stopper, said arm having its free ends
bent to engage the double eyes or loops, and

occupying a position to one side of the verti-
cal center of the bottle when the stopper is lo-
locked, substantially as set forth.

SAMUEL S. WOODBURY.

Witnesses:

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