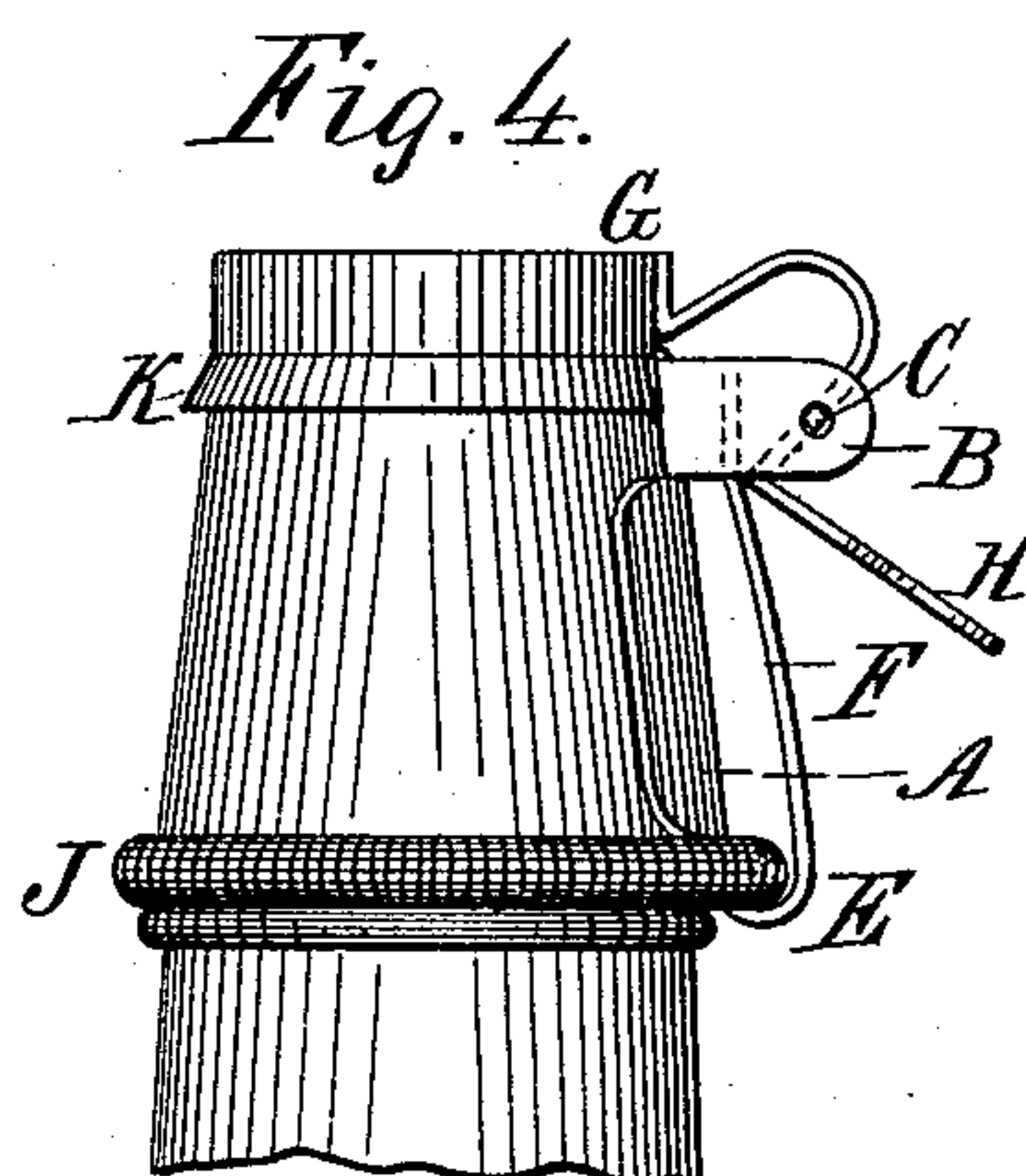
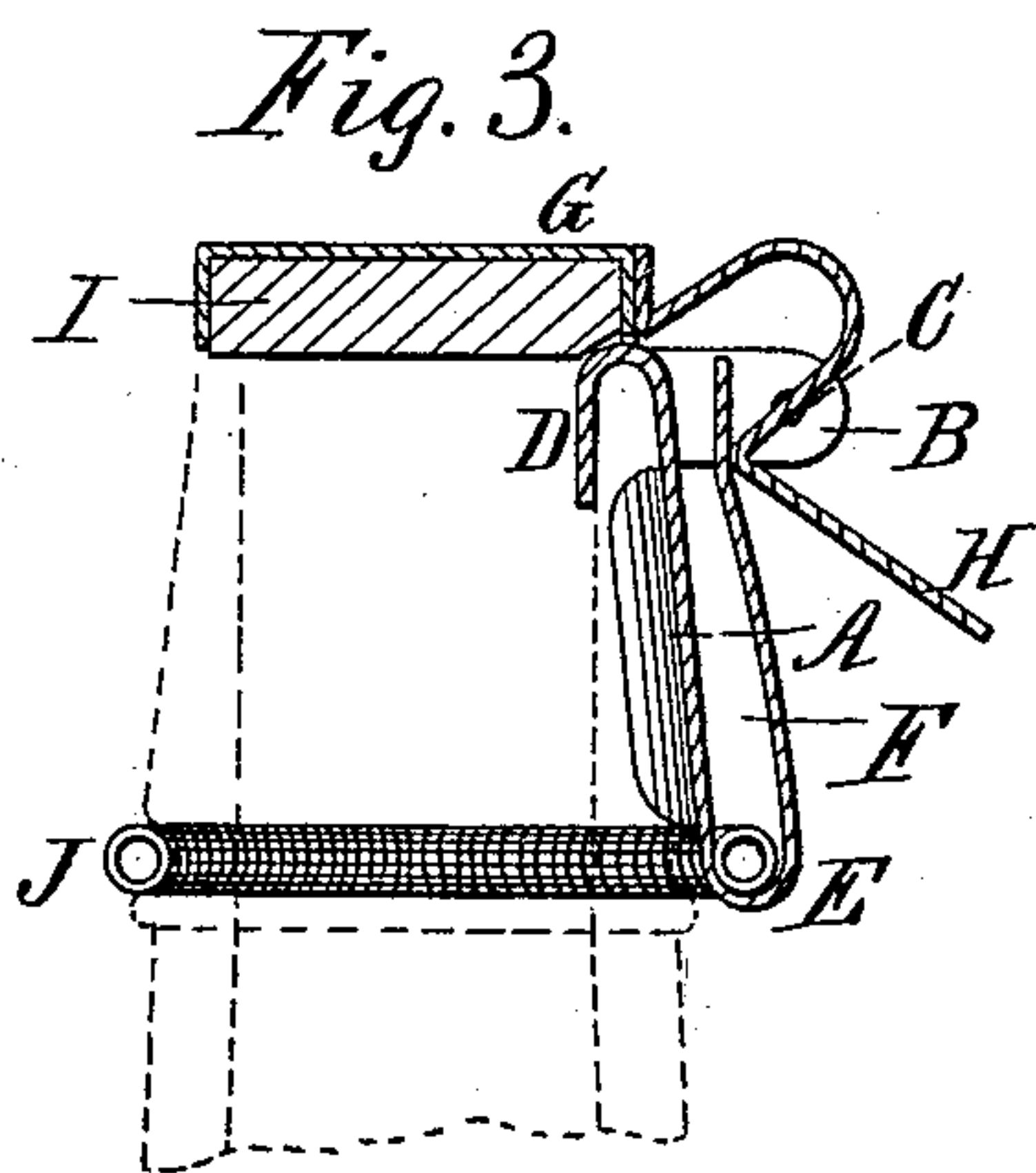
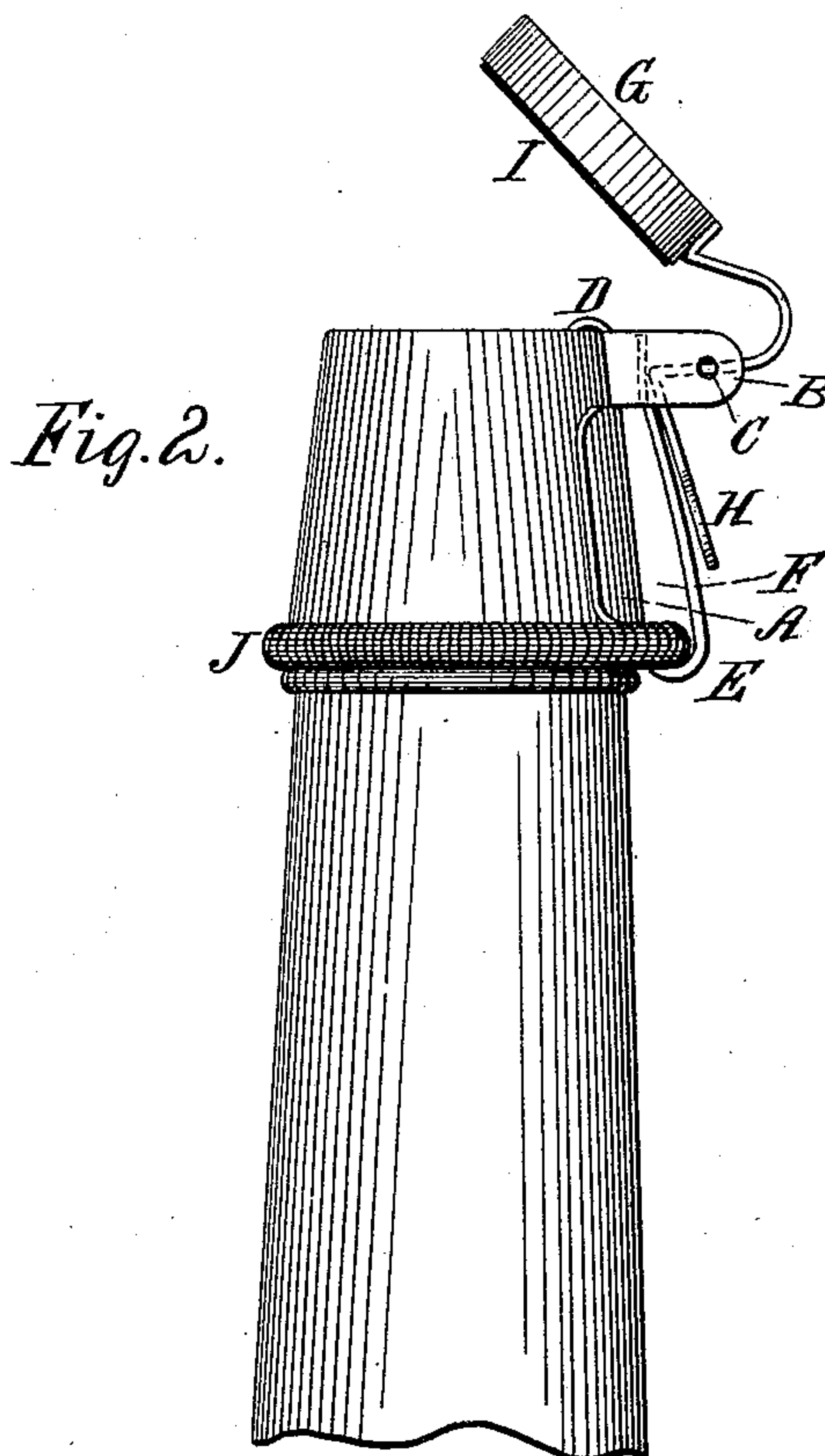
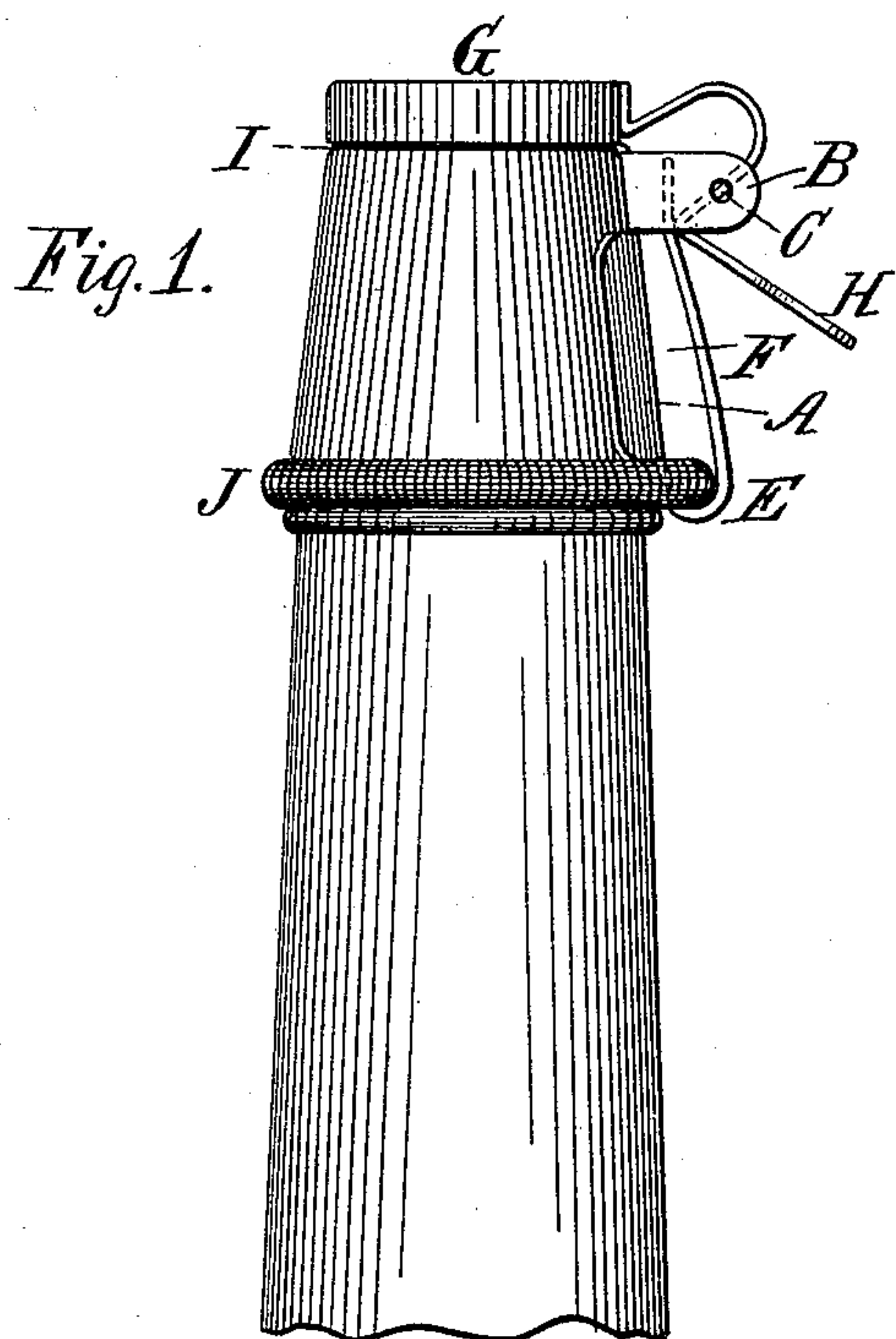


(No Model.)

S. MARKS.  
BOTTLE STOPPER.

No. 400,927.

Patented Apr. 9, 1889.



Witnesses:  
W. C. Jirginston.  
P. J. Caldwell

Inventor:  
Solomon Marks.  
by Jephtha Garrard  
his Attorney.

# UNITED STATES PATENT OFFICE.

SOLOMON MARKS, OF CINCINNATI, OHIO, ASSIGNOR TO RACHEL B. HYAMS,  
OF SAME PLACE.

## BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 400,927, dated April 9, 1889.

Application filed January 28, 1889. Serial No. 297,878. (No model.)

*To all whom it may concern:*

Be it known that I, SOLOMON MARKS, a citizen of the United States, residing at Cincinnati, Hamilton county, Ohio, have invented  
5 certain new and useful Improvements in Stoppers for Bottles, of which the following is a specification, reference being had to the accompanying drawings.

This invention, as here shown, consists of a  
10 stopper for bottles intended to be attached to any bottle desired, the object being to provide means of closing a bottle securely and permitting of its being readily opened for the  
15 discharge of its contents and closed again as often as desired.

Figure 1 shows the neck of a bottle with the device attached as seen when closed. Fig. 2 shows the same as seen when open. Fig. 3 is a vertical section through the center of Fig. 1.  
20 Fig. 4 is the same as Fig. 1 with the addition of flange K.

The device consists—

First, of a single piece of metal bent and formed into a plate, A, bent to conform to the  
25 curve of the bottle-neck and clasp it to sufficient extent to hold it in place, two jaws, B, perforated at C, a loop, D, passing over and into the bottle-neck, helping to secure the device to the bottle, and a part, E, bent outward  
30 and upward, so as to form a spring, F.

Second. A short hollow metal cylinder, G, closed at the upper end, so as to form a cap, and rigidly attached to the part H, which is bent so as to form a proper bearing for the  
35 spring F and to afford a lever to be used in raising the stopper. H has lugs on each side fitting into the perforations in the jaws B, as seen at C, in such a manner as to form a hinge-joint.

Third. A cushion, I, Fig. 3, of soft rubber, 40 cork, or other suitable material, fitting into and held by the cap G, and having a surface fitting over and closing the mouth of the bottle when the part G is brought down upon it.

Fourth. An elastic rubber or spiral metallic 45 ring, J, which passes entirely around the neck of the bottle and through the loop formed by the parts A and F, to assist in securing the device to the bottle.

Operation: The device is placed upon a bot- 50 tle, being secured thereto by the loop D, the plate A and the ring J passing around the neck of the bottle in such a manner that the rubber cushion I may rest upon or fit into the mouth of the bottle, closing it securely. The 55 cylinder-cap G and cushion I are held down by the spring F pressing against the angle or knuckle in the part H. They are raised and the bottle opened by pressing upon the free end of the part H, which acts as a lever and 60 turns upon the hinge formed by the perforations and lugs seen at C, and held in that position by the spring F.

Having thus fully described my invention, what I claim, and desire to obtain by Letters 65 Patent, is—

The combination of the plate A, carrying jaws B and spring F, cap G, having cushion I, lever H, secured to the cap and pivoted to the jaws, and ring J, as and for the purpose 70 set forth.

The foregoing specification of my invention signed by me this 15th day of December, A. D. 1888.

SOLOMON MARKS.

Witnesses:

P. J. CADWALLADER,  
JEPHTHA GARRARD.