

(No Model.)

F. JACOB.
BOTTLE STOPPER.

No. 371,325.

Patented Oct. 11, 1887.

Fig. 1.

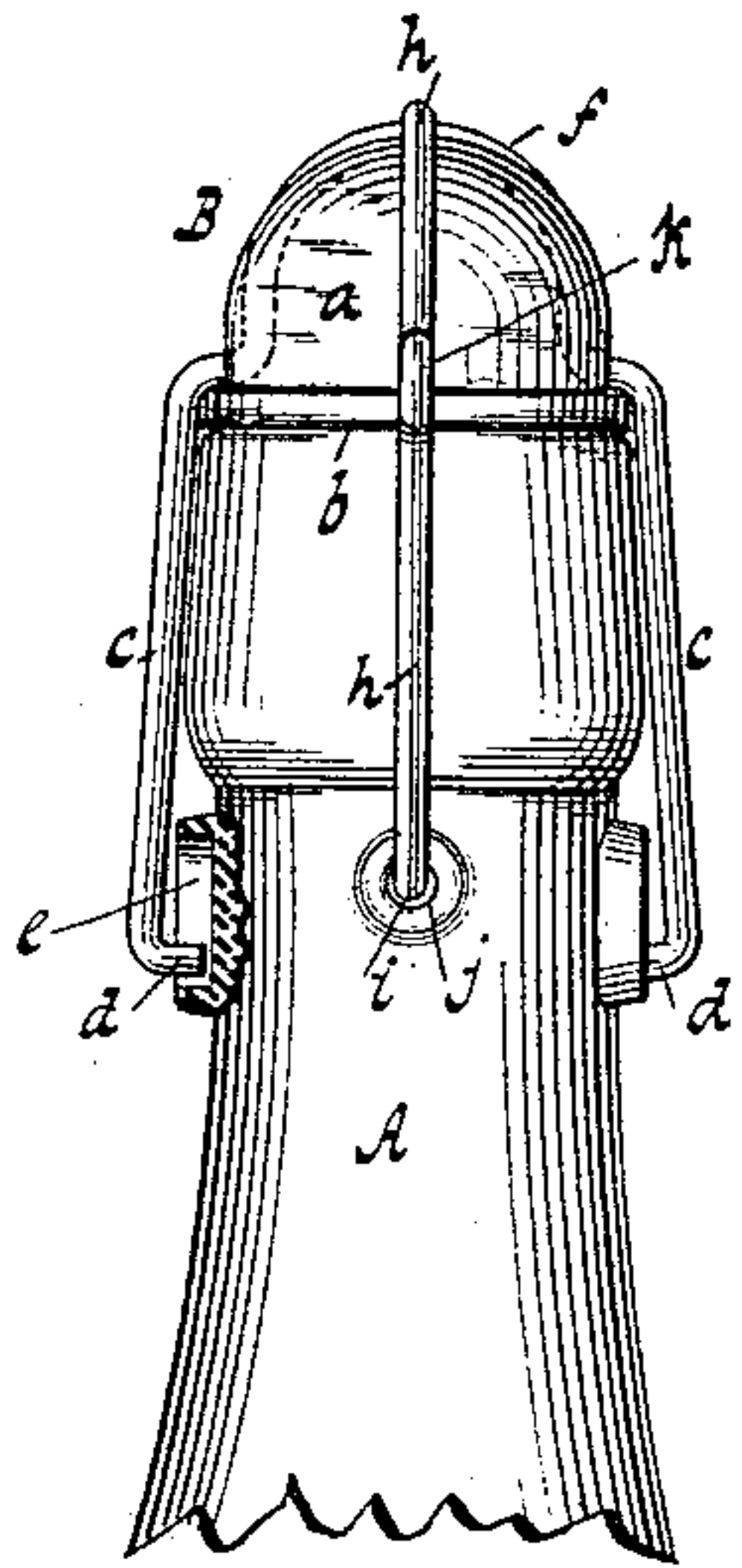


Fig. 2.

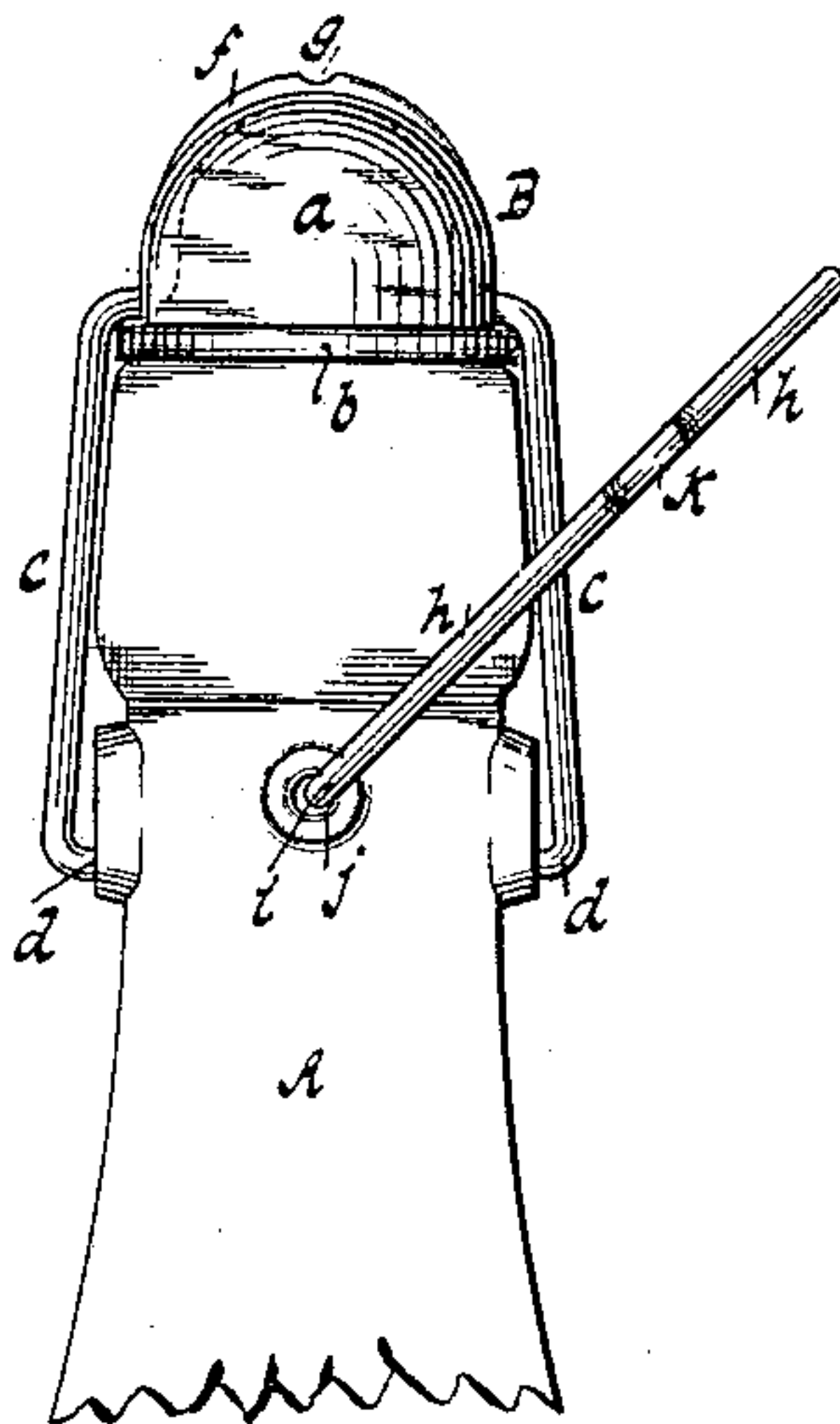


Fig. 3.

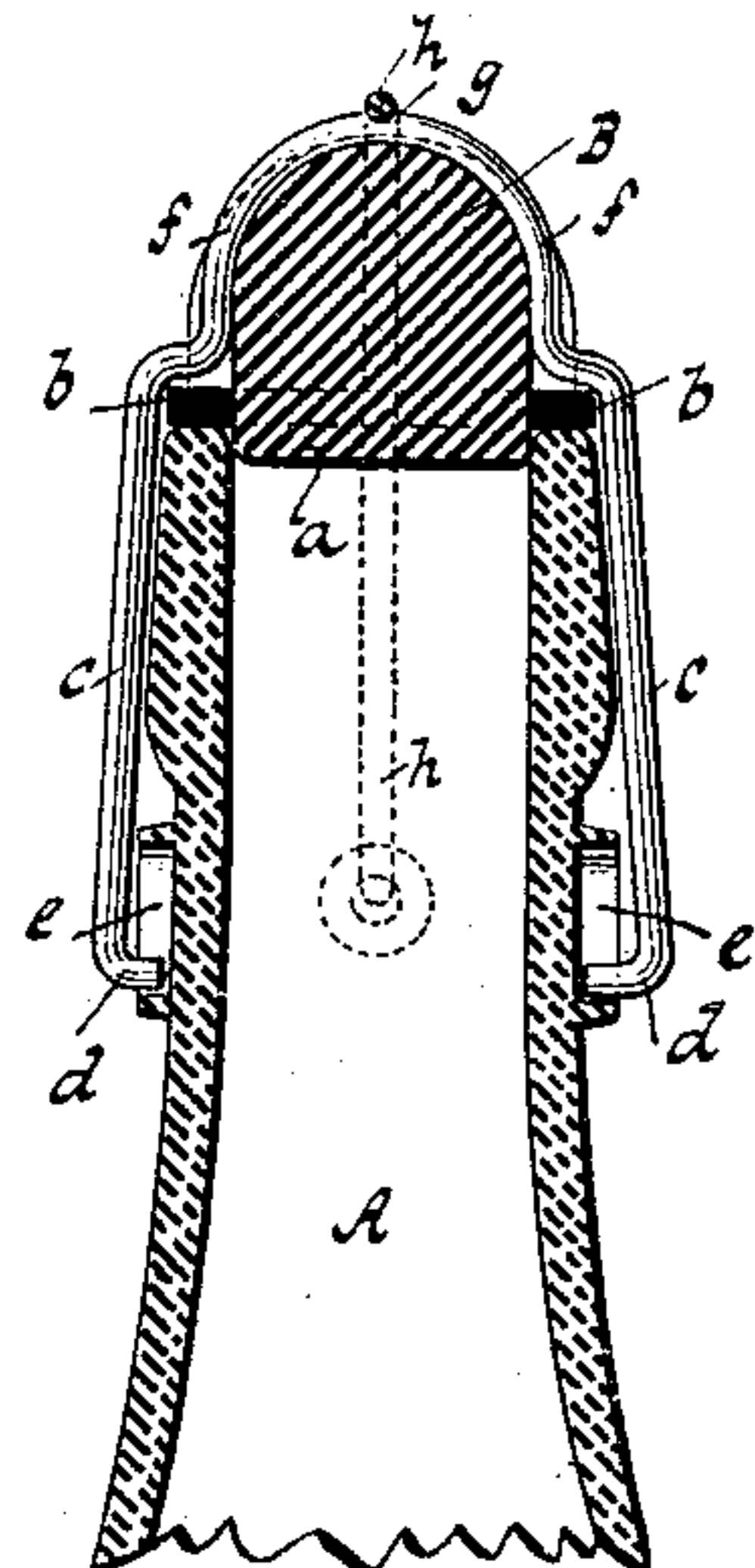


Fig. 4.

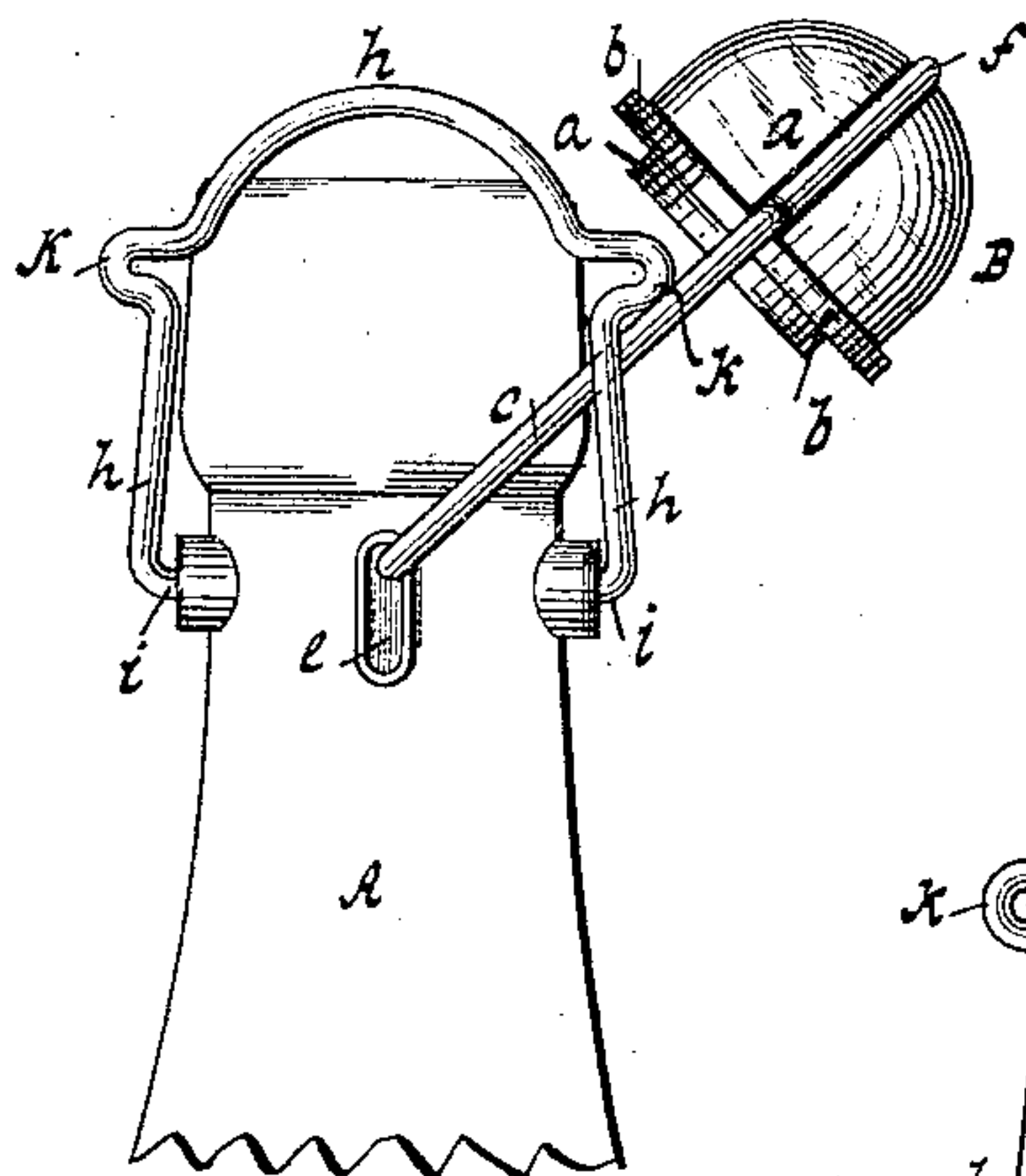


Fig. 5.

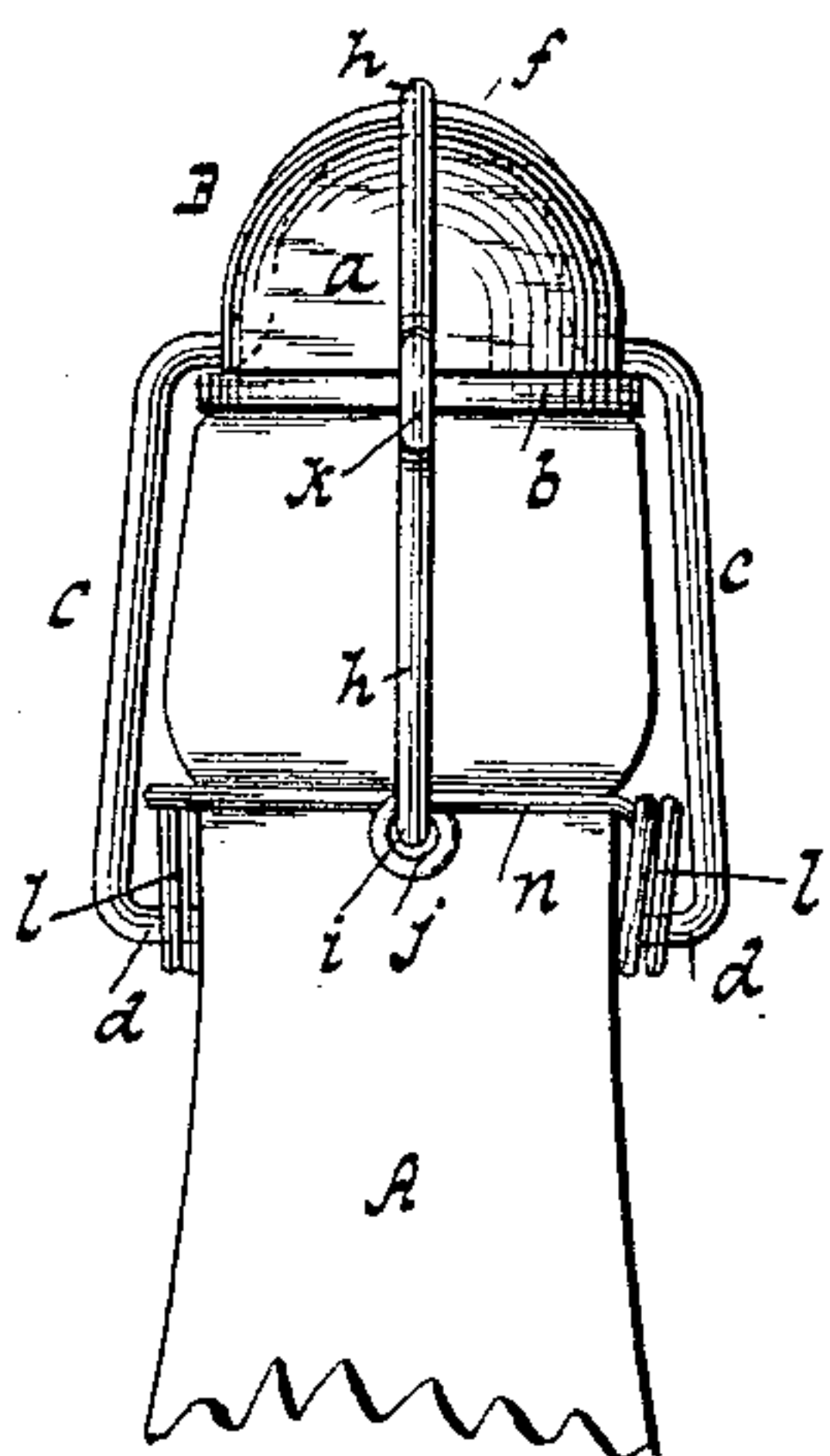
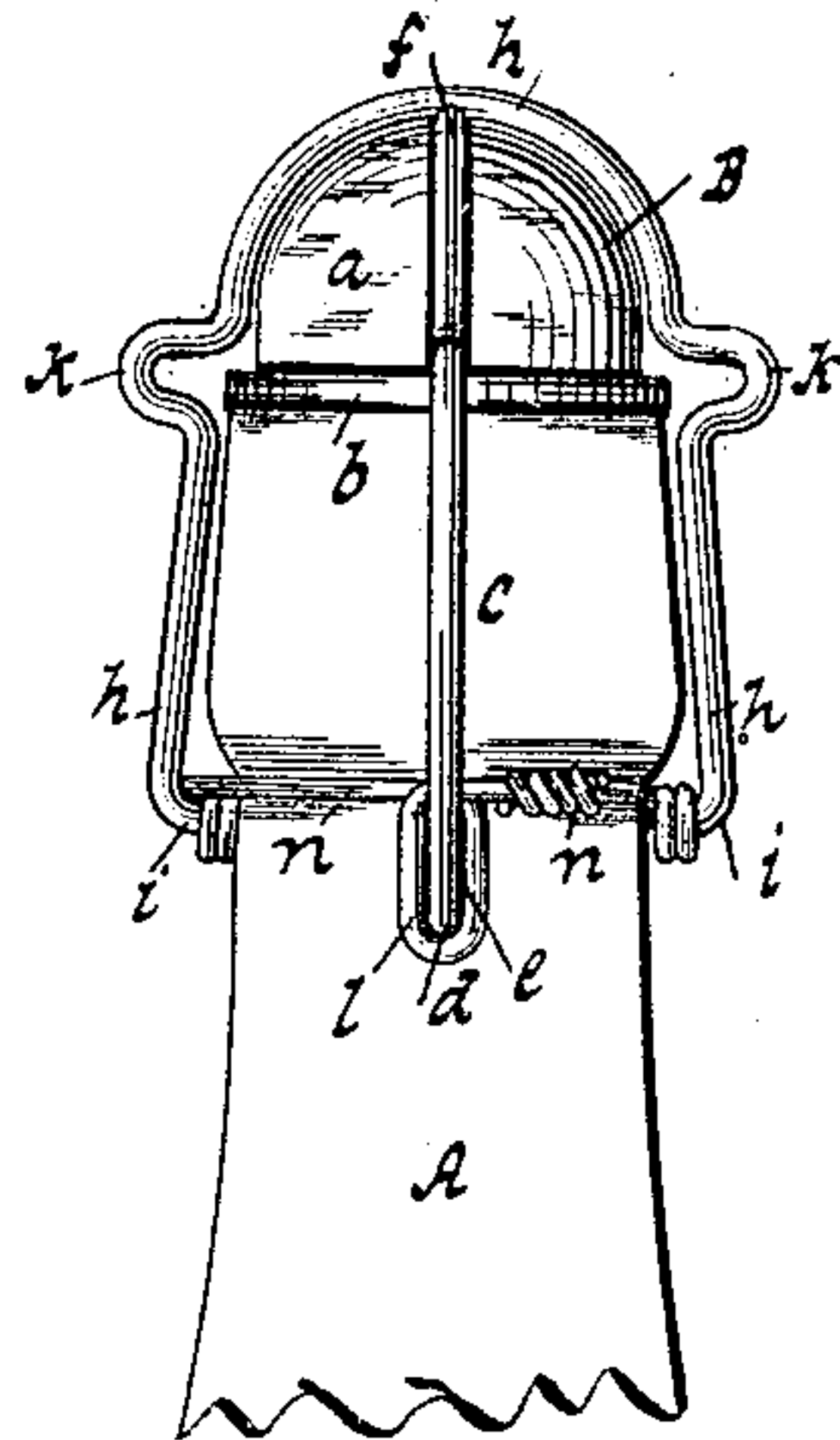


Fig. 6.



WITNESSES:

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INVENTOR

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UNITED STATES PATENT OFFICE.

FREDERICK JACOB, OF NEWARK, NEW JERSEY, ASSIGNOR OF ONE-HALF
TO CHRISTIAN FEIGENSPAN, OF SAME PLACE.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 371,325, dated October 11, 1887.

Application filed August 23, 1887. Serial No. 247,639. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK JACOB, a citizen of the United States, and a resident of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Bottle-Stoppers, of which the following is a specification.

My invention relates to improvements in bottle-stoppers, and has for its object to provide a cheap, durable, and effective stopper for bottles which are to be frequently opened and closed, such as beer-bottles.

It consists in a stopper having projecting arms pivoted to the neck of the bottle by means of pins and elongated recesses, so as to allow the arms and the stopper a swinging motion, as well as a motion in the direction of the axis of the bottle, the stopper being forced upon the mouth of the bottle by means of a swinging bail.

In the annexed drawings, Figure 1 shows an elevation of my improved bottle-stopper closed. Fig. 2 is a similar view with the closing-bail turned aside. Fig. 3 is a vertical section. Fig. 4 is an elevation at right angles to the positions of Figs. 1, 2, and 3, with the stopper and closing-bail turned away from the mouth of the bottle. Figs. 5 and 6 are elevations of a modification having a wire neck-band.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates the neck of the bottle, and B is the stopper, which, by preference, is made of two parts—namely, the body *a*, made of hard rubber, metal, wood, or other suitable material, and the part *b*, made of soft rubber, cork, or other suitable material and of any desirable form.

c c are two arms projecting from the stopper B diametrically opposite, and connected to the neck A of the bottle by means of end pins, *d d*, entering elongated recesses *e e*, so as to allow the arms and stopper a swinging motion, as well as a motion in the direction of the axis of the bottle.

The recesses *e e* may be formed in the material of the bottle, as shown in Figs. 1 to 4, or in the neck-band *n*, as shown in Figs. 5 and 6, the recesses in the latter case being formed by one or more loops, *l*, of the neck-band *n*.

In the example illustrated in the drawings the two arms *c c*, with their pins *d d*, are made

in one piece, consisting of a wire bent to the proper form, the central part, *f*, having a curved surface to form a cam for the closing-bail, and having a depression, *g*, in the center.

h is the closing-bail, pivoted to the neck of the bottle by means of pins *i* engaging recesses *j*, which latter may be formed in the material of the neck of the bottle, as indicated in Figs. 1 to 4, or in the neck-band *n*, as in Figs. 5 and 6. The closing-bail has projecting loops or ears *k*, which impart to it some elasticity and serve as a support for the fingers in opening and closing the stopper.

For closing the bottle, the stopper is turned against the mouth of the same and the closing-bail is forced over the middle part of the stopper until it passes into the depression *g*, which retains it in position.

For opening the bottle, the closing-bail is forced aside, Fig. 2, and then the stopper is raised and turned aside, as seen in Fig. 4.

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

1. The combination, with the neck of a bottle and a stopper, of two diametrically-opposite arms projecting from the stopper, pins and elongated recesses connecting the arms to the neck of the bottle, a curved surface on the top of the stopper, and a closing-bail pivoted to the neck of the bottle and acting against said curved surface, substantially as shown and described.

2. The combination, with the bottle, of the stopper B, wire *c c f*, end pins, *d*, elongated recesses *e*, and closing-bail *h*, pivoted to the neck of the bottle, substantially as shown and described.

3. The combination, with a bottle, of the stopper B, wire *c c f*, depression *g*, pins *d d*, elongated recesses *e*, the closing-bail *h*, pivoted to the neck of the bottle, and a neck-band, *n*, forming the recesses *e e* and *j*, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 15th day of August, 1887.

FREDERICK JACOB.

Witnesses:

A. FABER DU FAUR,
CHRISTIAN FEIGENSPAN.