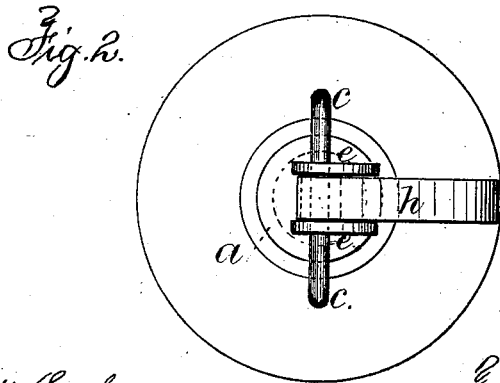
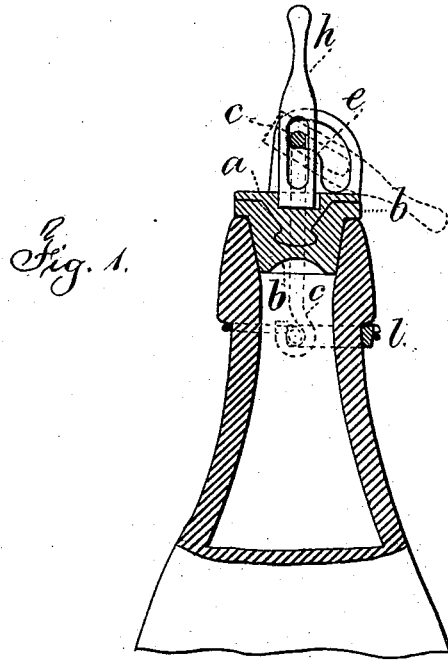


F. SCHLICH.  
BOTTLE STOPPER FASTENING.

No. 190,254.

Patented May 1, 1877.



Witnesses.

Chas. H. Smith  
Geo. D. Pinckney

Inventor

Frederick Schlich.  
per Lemuel W. Sevell  
attg.

# UNITED STATES PATENT OFFICE.

FREDERICK SCHLICH, OF NEW YORK, N. Y.

## IMPROVEMENT IN BOTTLE-STOPPER FASTENINGS.

Specification forming part of Letters Patent No. **190,254**, dated May 1, 1877; application filed September 11, 1876.

*To all whom it may concern:*

Be it known that I, FREDERICK SCHLICH, of the city and State of New York, have invented an Improvement in Bottle-Stopper Fastenings, of which the following is a specification:

My invention is made with reference to facilitating the opening of the bottle. In bottle-stoppers in which there are wire bails or yokes passing through slots in the wings or projections of the stopper there is difficulty in pushing the wire bail back from its bearing in the wings of the stopper, especially when the liquid contents of the bottle are under heavy pressure, as in soda-water, &c.

I make use of a lever that is free and out of action when the bottle is closed, but which lever can be brought into action at will to pry back the bail-wire from off its bearing, and thus effect the liberation of the stopper; or, when the stopper is being placed upon the bottle, the said lever is used to force the bail-wire over its bearing to hold the stopper into place, and after this has been done the lever is free to be turned aside out of the way.

In the drawing, Figure 1 is a vertical section of the stopper closed upon a bottle with the lever in position for use, and Fig. 2 is a plan of the same.

The stopper is made of a metal button or disk, *a*, and a rubber face, *b*, to enter or press upon the neck, and *c* is the swinging bail or yoke, hinged at its ends to the band or wire *l*, that passes around the neck of the bottle; and *e* is the bearing upon the disk *a*, upon which

the yoke rests when holding the stopper to the bottle. These parts are shown similar to those in my Patent No. 112,185; but they may be of any suitable construction, to which the lever *h* can be applied for the purposes aforesaid. This lever *h* is slotted for the yoke to pass through it, and the end of the lever is adapted to bear against the surface of the button *a* as a fulcrum in pressing the yoke-wire upon or off of the bearing *e*.

I have shown a recess in the top surface of the button or disk *a* of a shape adapted to receive the end of the lever; but projections thereon may be employed. The leverage given by the length of the lever *h* is sufficient to allow the stopper to be opened or closed with facility.

When not in use the lever *h* can be turned aside out of the way, as shown by dotted lines in Fig. 1, the special object of the slot being to allow the lever to be loose, so that it may be turned down when not in use.

I claim as my invention—

The lever *h*, having a slot, and the yoke *c*, passing through the slot of the lever, in combination with the bottle-stopper *a b*, bearing *e*, and fulcrum projection upon the stopper for the end of the lever, substantially as set forth.

Signed by me this 6th day of September, 1876.

F. SCHLICH.

Witnesses:

GEO. T. PINCKNEY,  
CHAS. H. SMITH.