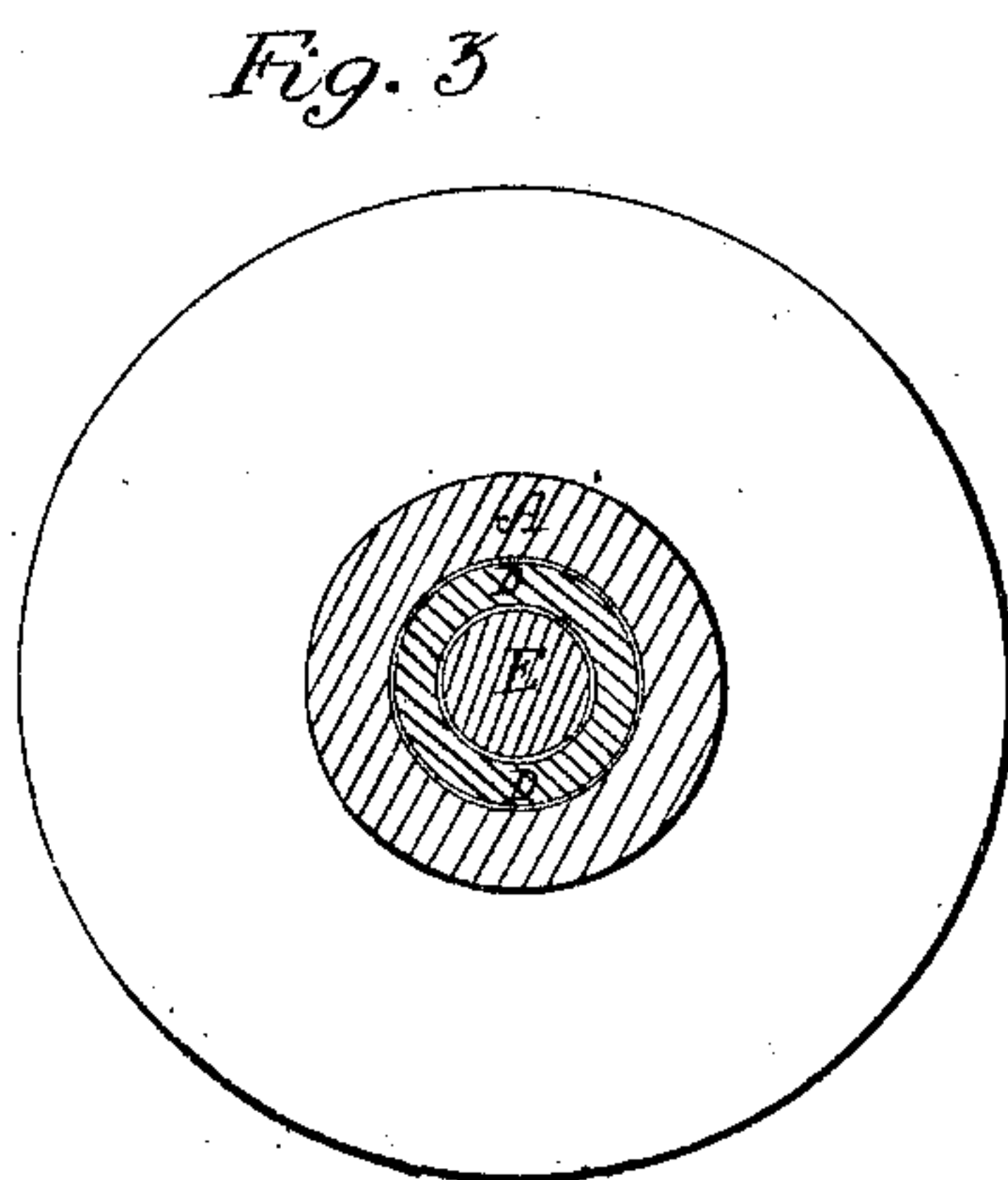
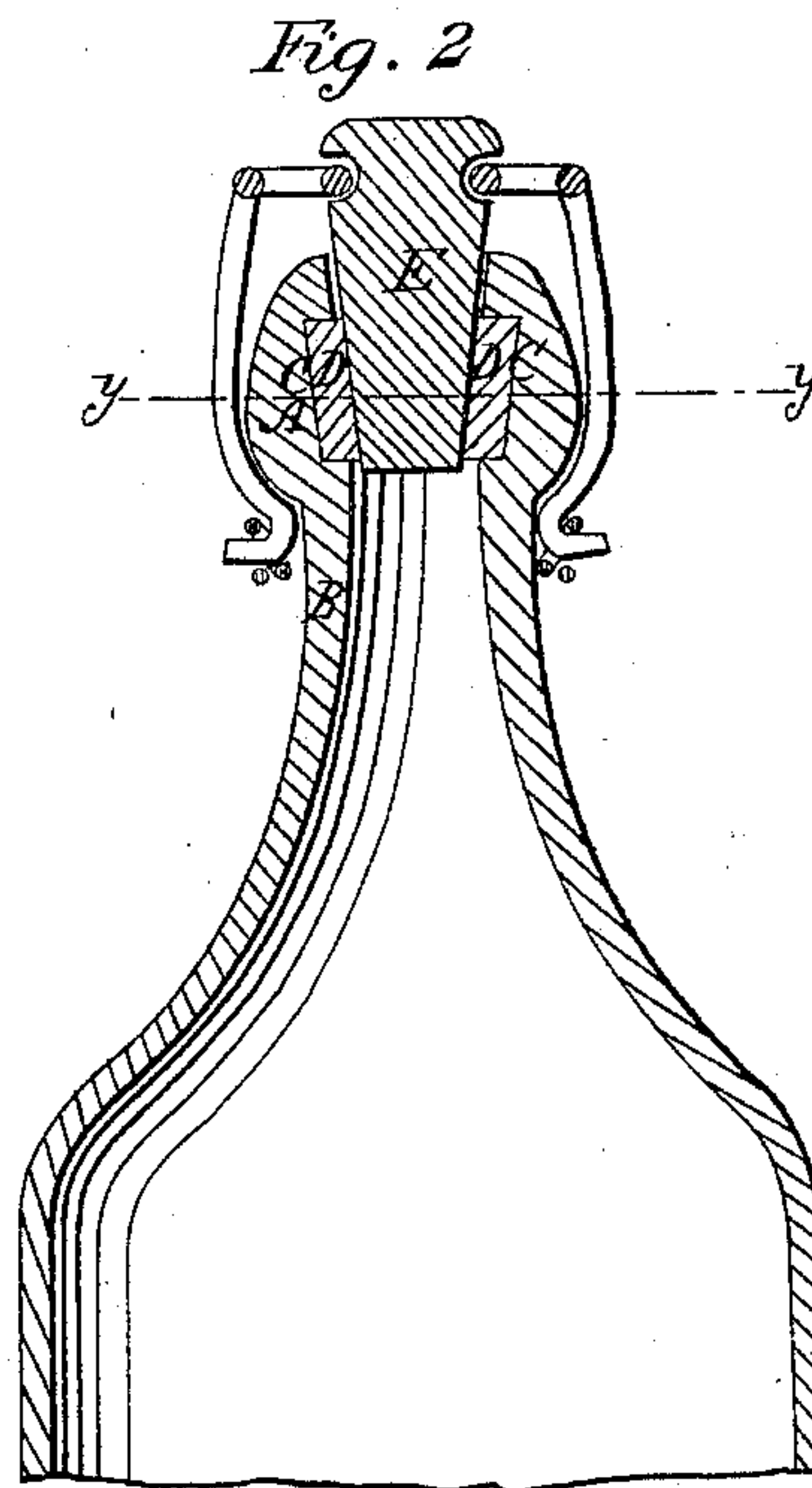
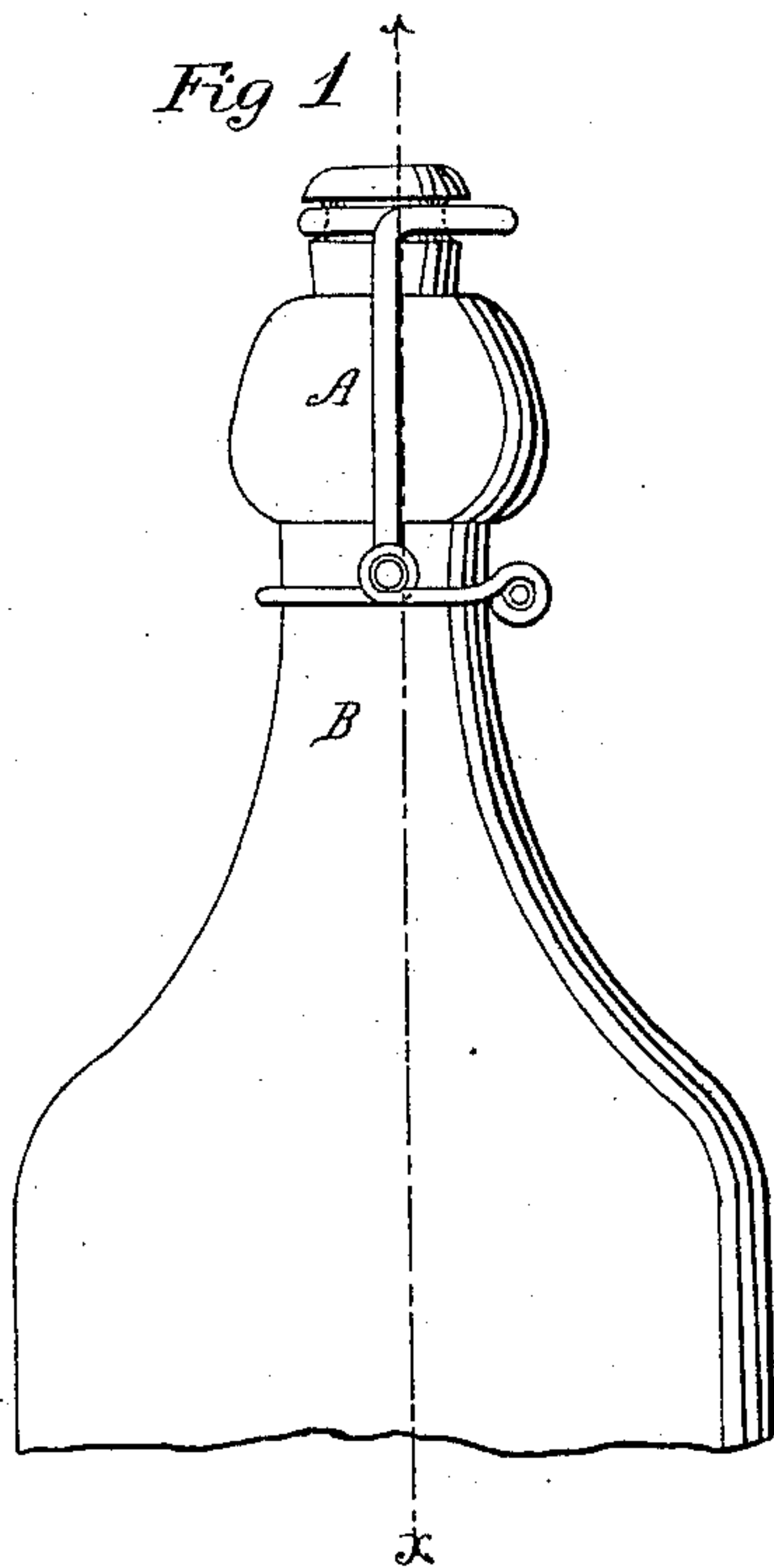


T. B. Way,

Bottle Stopper.

No 50,864.

Patented Nov. 7, 1865.



Witnesses:

M. M. Livingston

J. B. Livingston

Inventor:

Thomas B. Way

UNITED STATES PATENT OFFICE.

THOMAS B. WAY, OF BENNINGTON, VERMONT.

IMPROVED BOTTLE-STOPPER.

Specification forming part of Letters Patent No. 50,864, dated November 7, 1865.

To all whom it may concern:

Be it known that I, THOMAS B. WAY, of Bennington, in the county of Bennington and State of Vermont, have invented a new and useful Improvement in Bottles; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a new manner of constructing the head of a bottle, particularly such as are used for bottling soda-water, beer, mineral waters, &c., so that a wooden plug can be used instead of a cork, which will materially reduce the expense of corking bottles, for the reason that the corks now used in such bottles are destroyed as soon as drawn from the bottle, and are made of cork, which is quite expensive. I therefore so make the head of the bottle that a wooden plug may be used, the expense of which is comparatively nothing.

My invention consists in forming on the inside of the head of a bottle a groove of suitable shape and extent, into which I introduce a packing or lining of rubber or some other suitable elastic material, which will, when the plug is driven in, insure a perfectly-tight sealing or corking of the bottle.

My invention is illustrated in the accompanying drawings, in which Figure 1 is a view of a bottle corked according to my invention. Fig. 2 is a longitudinal central section of a bottle made according to my invention, taken on the plane of the line *x x*, Fig. 1. Fig. 3 is a cross-section taken in the line *y y*, Fig. 2.

Similar letters of reference indicate corresponding parts.

To enable others to understand my invention, I will now proceed to describe it.

A represents the head of a bottle, and B the neck of a bottle, such as are used for the bot-

tlung soda-water, &c. All around the inside of the head thereof a groove, C, is made, suitable for receiving and retaining within it a packing of rubber or other suitable material, D. (See Fig. 2.) Usually in molding the bottles this groove will be formed with the bottle, which will not increase the expense of the bottle in any way whatever. The packing in the present instance consists of a piece of rubber tubing, which is thrust into the head of the bottle and crowded into place by the plug E; but I intend ordinarily to use strips of rubber of the proper width to fill the groove C, which rubber can be secured in place by any suitable mucilaginous substance.

With a bottle so made wooden plugs can be used and a perfectly-tight stopping or sealing of the bottle be insured, and it will be seen that though the wooden plug be thrown away, as is the cork in nearly every case on uncorking the bottle, the cost of a wooden plug will be comparatively nothing.

The plugs can, of course, be secured in the bottle of any of the devices now used for the purpose. I have shown one in the form of a yoke applied to a groove made around the wooden plug, but do not, of course, claim any such fastenings.

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

Constructing the head of a bottle or the like in such manner that a packing of rubber or some other flexible material may be inserted and held therein, whereby I am enabled to use wooden plugs instead of corks, as heretofore, for stopping or corking soda-water, beer, and other bottles, substantially as shown and described.

THOMAS B. WAY.

Witnesses:

WM. E. LYON,

M. M. LIVINGSTON.