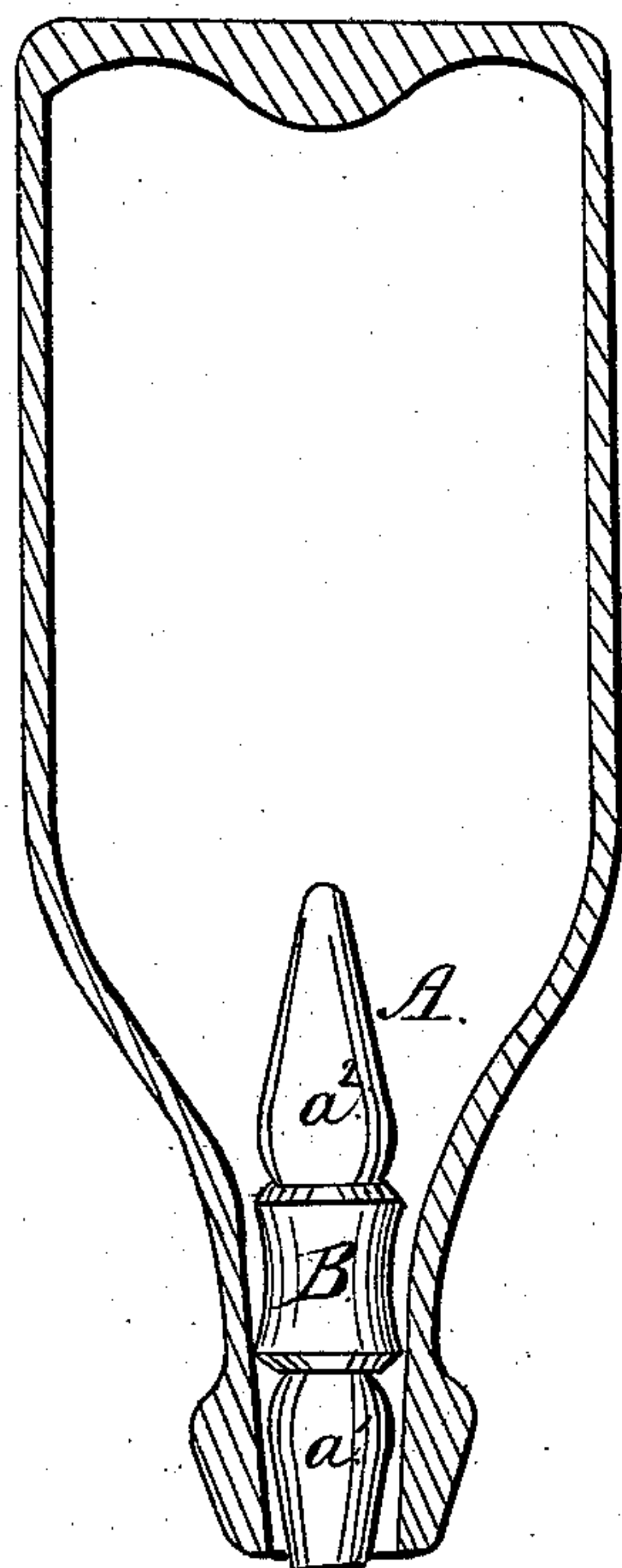


*R. Robinson,*  
*Bottle Stopper.*

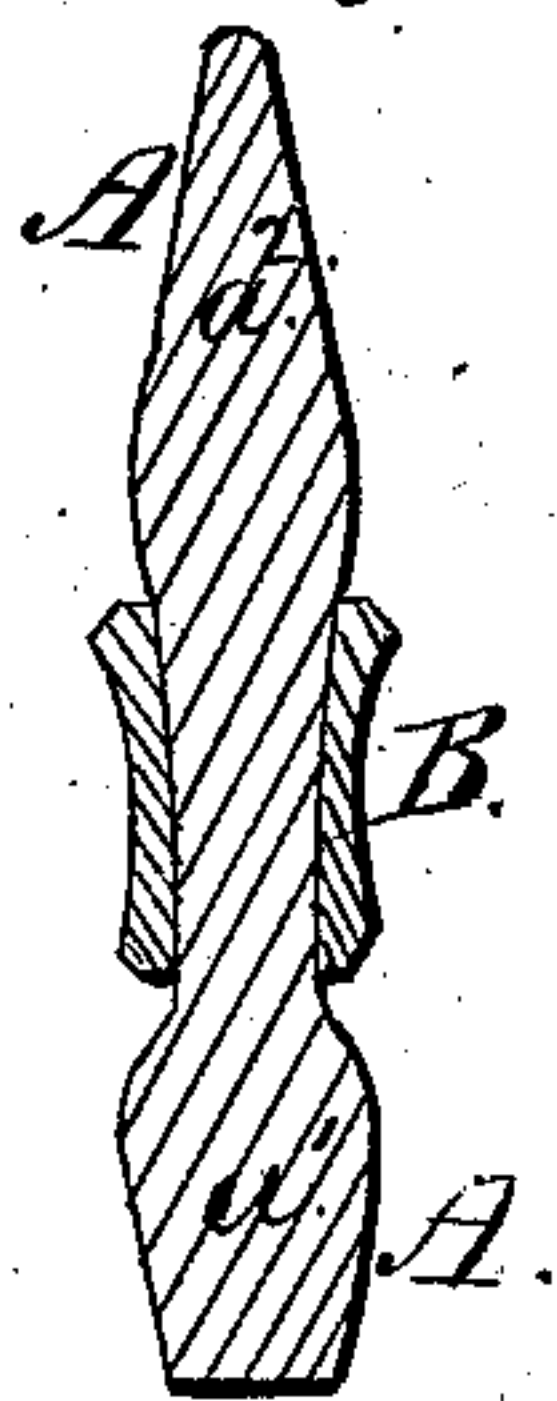
*N<sup>o</sup> 63,942.*

*Patented Apr. 16, 1867.*

*Fig: 1.*



*Fig: 2.*



*Witnesses;*  
*Jes. Tuscher,*  
*Wm. Freurn.*

*Inventor;*  
*Robt Robinson,*  
*Per Munn & Co.*  
*Attorneys*

# United States Patent Office.

ROBERT ROBINSON, OF BROOKLYN, NEW YORK.

*Letters Patent No. 63,942, dated April 16, 1867.*

## IMPROVED BOTTLE-STOPPER.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, ROBERT ROBINSON, of Brooklyn, Kings county, New York, have invented a new and improved Bottle-Stopper; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my improved stopper, and showing in red lines a vertical section of a bottle; and Figure 2 is a longitudinal section of the stopper.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved stopper that will close the bottle securely against the escape of gas therefrom, and which shall be so constructed that the greater the pressure, the closer and firmer the stopper will be secured in its place. And it consists in a stopper constructed substantially in the manner hereinafter more fully described, and having an India-rubber or other elastic band placed around its neck.

A is the stopper, which is usually made of glass, in substantially the shape shown in figs. 1 and 2; that is to say, the part  $a^1$  that enters the neck or mouth of the bottle, is made in about the shape of the part of a ground glass stopper, that enters the neck of the bottle. The stem  $a^2$  starts from the part  $a^1$ , with a narrow neck, and gradually increases in size, to the bulge of the said stem, from which point it gradually decreases till it terminates in a rounded point, as shown. The size of the part  $a^1$ , and of the bulge of the stem  $a^2$ , should be such that the stopper can be passed into the bottle; and the length of the stopper should be such that it cannot turn end for end in the bottle, so that the stopper will always be in a proper position for closing the bottle. B is a rubber band placed around the neck of the stem  $a^2$ . This band is first placed over the end  $a^1$  of the stopper, so that the lower end of said band may reach to about the centre of the smaller portion or neck of the stopper. The whole is then inserted in the bottle stem foremost, and the rubber band pressed further down upon the stem, by any suitable instrument, into the position shown in fig. 1; that is to say, the ring is pressed farther down upon the stem, and its lower edge forced out by the increasing diameter of the stem  $a^2$  against the neck of the bottle, thereby closing it tightly. As the stopper remains permanently in the bottle I prefer to make it of glass, so that it can be cleaned easily and thoroughly in the same manner and by the same means that the bottle itself is cleaned. For the same reason the band B should be made of India rubber or some similar elastic substance that can be easily and readily cleaned while in the bottle.

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

Closing the neck of the bottle by means of the stopper A, constructed as described, having its ends  $a^1$   $a^2$  of greater diameter than its centre, and by placing the elastic band B over the upper end  $a^1$ , and, after being inserted in the neck of the bottle, pressing said elastic band down upon the part  $a^2$  of increasing diameter, as herein shown and described.

The above specification of my invention signed by me this 25th day of January, 1867.

ROBERT ROBINSON.

Witnesses:

WM. F. McNAMARA,  
JAMES T. GRAHAM.