W. D. Brown,

Bottle Stopper,

No. 65,537. Patented June 11, 1867.

Fig: 4.

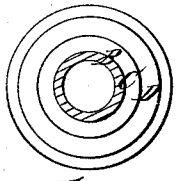


Fig: 2.

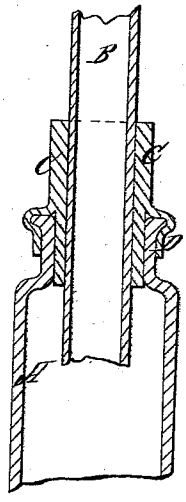


Fig: 1.

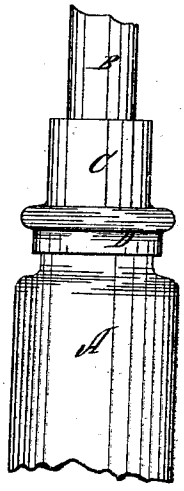


Fig: 5.

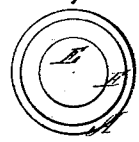
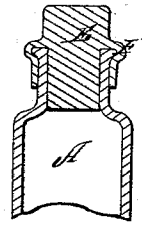


Fig: 3.



Witnesses:
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United States Patent Office.

WILLIAM D. BROWN, OF MILWAUKEE, WISCONSIN.

Letters Patent No. 65,537, *dated June* 11, 1867.

IMPROVED BOTTLE-STOPPER AND COUPLING.

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, WILLIAM D. BROWN, of the city and county of Milwaukee, and State of Wisconsin, have invented a new and useful Improvement in Flexible Bottle-Stopples and Couplings; 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 drawing, forming part of this specification, in which—

Figure 1 shows a flexible coupling, with bottle and glass tube in perspective.

Figure 2, a sectional view of same.

Figure 3, a sectional view of a flexible stopple closing the neck of a bottle.

Figure 4, cross-section of bottle-neck coupling and glass tube

Figure 5, cross-section of bottle neck and flexible stopple.

Similar letters of reference in each of the figures indicate corresponding parts.

The object of my improvement is to make a flexible stopple for glass bottles, and a flexible coupling to connect bottles to glass or other tubes which shall close the opening of a bottle perfectly tight, and prevent the passage of air, gas, or liquid without the use of wax or any sticky substance, and thus supersede the use of ground glass stopples in most if not all cases. When used for coupling it makes a perfectly tight flexible joint. It is made of rubber, or any similar elastic material sufficiently flexible for the purpose.

A is a glass bottle; B, glass tube; C, flexible coupling; D, flange or flap fitting over the neck of the bottle to make a perfectly tight joint; E, solid flexible stopple; F, flange or flap of same fitting over the bottle neck to make a perfectly tight joint, and to prevent the stopple from being thrown out by the pressure of gases inside the bottle.

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

1. Bottle A, tube B, and coupling C, in combination substantially as and for the purpose described.
2. Coupling C when made with flange or flap D, as described.
3. Flexible stopple E, when made with flange or flap F, substantially as described.

WILLIAM D. BROWN.

Witnesses:

G. W. MYGATT,

CHARLES H. HURD.