J. A. & G. E. Woodbury,

Stopper Fastener,

No. 50,063. Patented Sep. 19, 1865.

Fig: 1

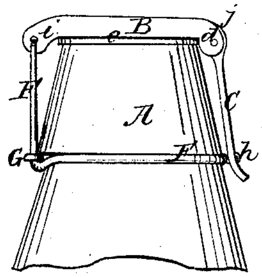


Fig: 2.

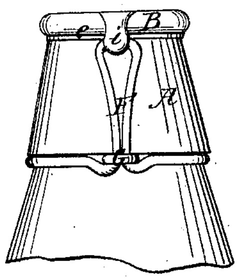


Fig: 3.

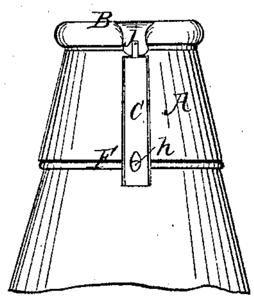


Fig: 4.

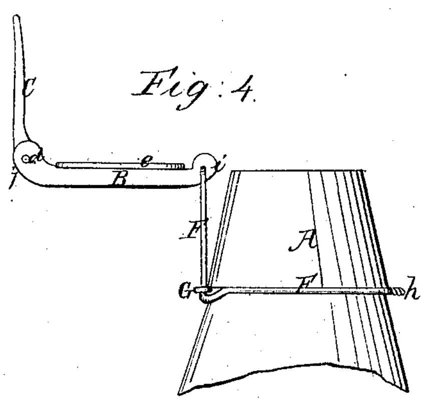


Fig: 5.

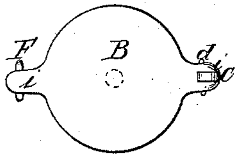


Fig: 6.

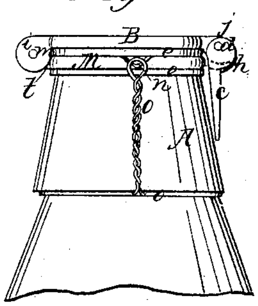
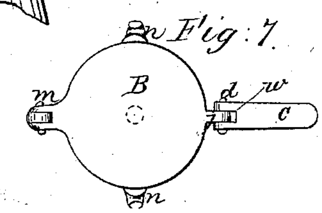


Fig: 7.



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UNITED STATES PATENT OFFICE.

I. A. WOODBURY AND G. E. WOODBURY, OF EAST CAMBRIDGE, MASS.

IMPROVED BOTTLE-STOPPER.

Specification forming part of Letters Patent No. **50,063**, dated September 19, 1865.

To all whom it may concern:

Be it known that we, I. A. WOODBURY and G. E. WOODBURY, of East Cambridge, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Bottle-Stoppers; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side elevation, Fig. 2 back elevation, and Fig. 3 a front elevation, of the stopper closed down upon the mouth of a bottle. Fig. 4 is a side elevation representing the stopper thrown back from the mouth of the bottle, and Fig. 5 is a top view of the same; and Fig. 6 is a side elevation, and Fig. 7 is a top view, of the hinged stopper B, combined with a fixed seat and packing wired to the neck of the bottle.

Like parts are indicated by the same letters in all the drawings.

To enable others skilled in the art to make and use our improvement, we will now proceed to describe the construction and operation of the same.

A represents the neck of a common stone, glass, or earthen bottle, having the usual shoulder about an inch from the top, which latter should be made smooth and flat, so as to form a suitable seat for the packing *e*, which rests upon it.

B is a flat disk, of iron, brass, or other suitable material, the diameter of which, as shown in the drawings, is a little greater than that of the mouth of the bottle. Fastened to the under side of the disk by means of a central rivet is a packing, *e*, of rubber or other suitable material, large enough to cover the mouth of the bottle. On one edge of this disk B is an ear, *i*, as shown in Figs. 1, 2, 3, 4, and 5, through which is drilled a round hole to receive the wire F, which is bent down till it reaches the shoulder on the neck of the bottle, where the loop is united by means of the wire link or clasp G, as represented in Fig. 2. From this point the two ends of the wire are carried round the neck of the bottle, close to the shoulder, to the opposite side, where they are twisted together, and then cut off within about one-eighth of an inch from the said shoulder, forming a projection, *h*, as shown in Figs. 1 and 4.

C is a hasp, the upper end of which is confined to the ear *j* on the disk B by means of the pivot *d*. Through the lower end of the hasp, as shown in Fig. 3, is a hole large enough to receive the projecting ends *h* of the wire F.

M is a flat ring, of the same diameter as the disk B, provided with a projecting tenon, *t*, which enters a corresponding mortise in the projection *i* of the disk B, *m* being a pivot on which the said disk turns. Opposite the projection *i* is a projection, *j*, to which the hasp C is attached by means of the pivot *d*. Opposite the tenon *t* is a projection, *h*, which enters the slot *w* in the hasp C, whereby the elastic packing *e* on the bottom of the disk B is pressed tightly onto the top of the ring M, as represented in Fig. 6.

n n are lugs (there may be more than two, if desired) projecting each side of the ring M, and *e'* is an elastic packing-ring attached to the bottom of the ring M and resting on the mouth of the bottle, as shown in Fig. 6.

O is a wire, passed round the neck of the bottle and over the lugs *n n*, by means of which the ring M, with its packing *e'*, is permanently and tightly attached to the mouth of the bottle, while the hinged cover B is free to be opened and closed.

Our stopper is very simple, cheap, and durable, and readily applied to any bottle in general use, while the ease with which the bottle can be opened or closed and the saving of corks effected by the use of our invention render it a very desirable improvement.

Having thus described the construction and operation of our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The hinged disk B, provided with the packing *e* and hasp C, or their equivalents, in combination with the wire F, applied to the mouth and neck of a bottle, substantially as and for the purpose described.

2. The fixed ring or seat M, provided with the lugs *n n*, projection *h*, and packing *e*, and hinged to the disk B, substantially as set forth, and for the purpose described.

3. Forming of the twisted ends *h* of the wire F a catch for the hasp C, substantially as described.

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