(No Model.)

R. F. OSGOOD.

Bottle Stopper.

No. 241,410. Patented May 10, 1881.

Fig. 1.

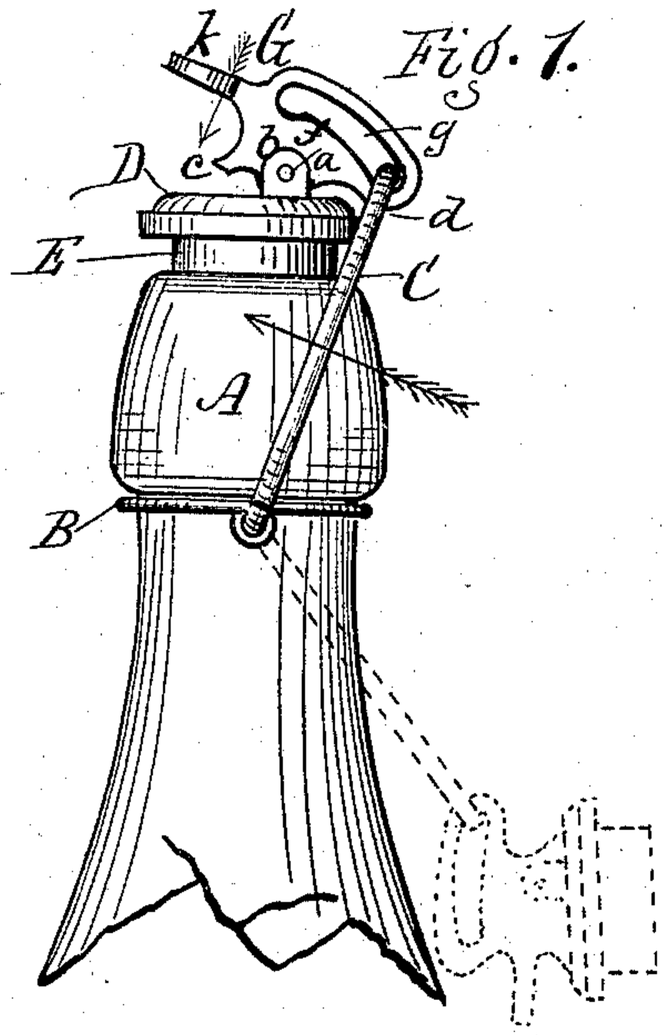


Fig. 2.

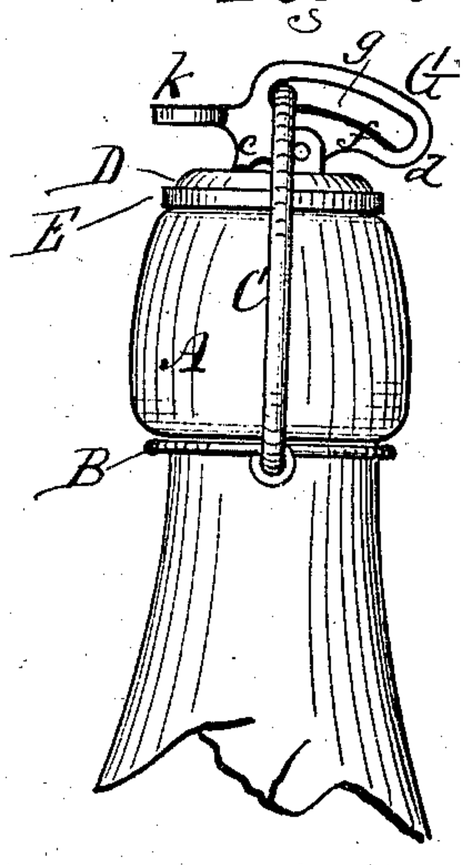


Fig. 3.

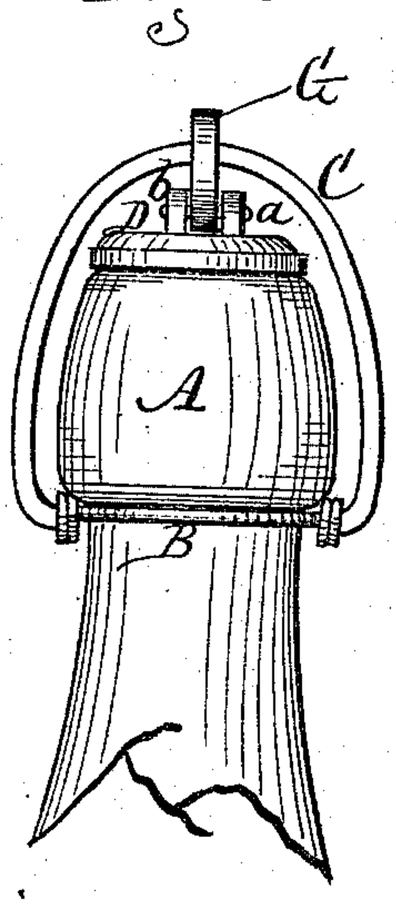
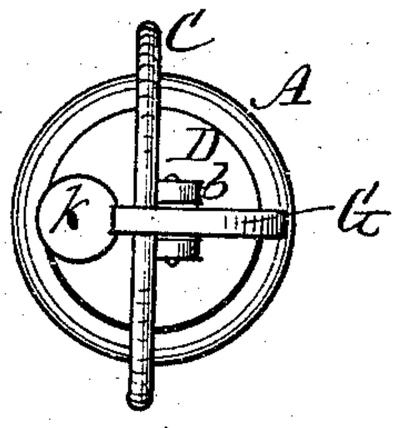


Fig. 4.



Attest.

R. E. White

Jacob Spahn

Inventor.

Rufus F. Osgood.

UNITED STATES PATENT OFFICE.

RUFUS F. OSGOOD, OF ROCHESTER, NEW YORK, ASSIGNOR TO HENRY L. BECKER AND FREDERICK WILL, BOTH OF SAME PLACE.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 241,410, dated May 10, 1881.

Application filed March 21, 1881. (No model.)

To all whom it may concern:

Be it known that I, RUFUS F. OSGOOD, of Rochester, Monroe county, New York, have invented a certain new and useful Improvement in Bottle-Stoppers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is an elevation, showing the stopper in a raised position in the mouth of the bottle and before it is pressed into place. Fig. 2 is a similar view, showing the stopper pressed down into its seat. Fig. 3 is a similar view at right angles to Fig. 2. Fig. 4 is a plan.

My improvement relates to that class of bottle-stoppers in which a bail pivoted at both ends to a neck-wire passes up over an inclined surface of the stopper-cap, and thus forces the stopper into its seat.

The invention consists in the combination, with the bail and the stopper-cap, of a rocking plate pivoted to the top of the cap and provided with an incline, over which the bail passes to force the stopper into place, the degree of rocking motion of the plate being such that in the forward movement the bail will be thrown past the pivotal center of the plate, and in the back motion the bail will be thrown back to such a degree that it will readily slip off from the incline, all as hereinafter described.

In the drawings, A represents the top of a bottle; B, the neck-wire; C, the bail, pivoted at its lower ends to the neck-wire; D, the metallic stopper-cap, and E the stopper or rubber packing, which parts are all of ordinary construction.

G is the rocking plate, pivoted at *a* to a lug or lugs, *b*, formed on top of the stopper-cap, and a little back from the center of the same. This plate has a degree of rocking or tilting motion on its pivot, which is limited in the forward movement by a small foot, *c*, which strikes on top of the cap, and in the back movement by the rear projecting end, *d*, striking on the top or edge of the cap. The two positions of the plate when opened and closed are shown in Figs. 1 and 2. The plate is provided with an incline, *f*, over which the top of the bail moves, and has preferably a slot, *g*, in which the bail rests, and by which the stopper is hung to the bail, though, so far as the action of the parts is concerned in packing and unacking, this might be dispensed with. The front end of the plate also preferably has a finger-piece, *k*, although this is not absolutely necessary.

To force the stopper into its seat to pack the bottle the right finger is placed on the finger-piece *k*, the two thumbs are placed against the two sides of the bail, and the bail is forced up over the incline *f*. As soon as the bail passes the dead-center over the pivot the rocking plate clicks forward, carrying the bail past the dead-center and binding the stopper fast in its seat. The bail rests in a shallow depression, *m*, at the upper end of the incline, which retains it fast in place.

To release or remove the stopper the finger is placed under the front end of the rocking plate, and it is thrown back into the inclined position shown in Fig. 1. This carries the top of the bail over or past the dead-center, and also brings the depression *m* in nearly a horizontal position, in which case the bail either escapes of itself down the incline or is pushed off with but slight force.

In the most common stoppers of this class the bail rides up in a slot in a fixed lug of the cap and falls into a notch in the center. In other cases the bail is carried up in the slot of the fixed lug by means of a quadrant-cam; and still in other cases a lever is used to raise the bail in the slot. The great difficulty in these cases is to force the bail out of the central notch in which it rests when it is desired to open the stopper. By the use of the pivoted rocker herein described this difficulty is avoided, as the tilting of the plate throws the bail so far back that it is readily released.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a bottle-stopper, the combination of a stopper-cap having an elastic stopper, a rocking plate pivoted to the top of the cap and provided with an eccentric slot, and a bail pivoted to a neck-wire and passing through the eccentric slot, as shown and described, and for the purpose specified.

2. In a bottle-stopper, the combination, with the stopper-cap and bail, of a rocking plate piv-

oted to the cap, and having a slot eccentric with the pivot, through which slot the bail passes, said rocking plate being arranged to tilt past the dead-center as the bail is thrown in one direction and the other, and serving to tighten the stopper in its seat without the use of a fixed flange on the cap, as herein shown and described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

RUFUS F. OSGOOD.

Witnesses:
R. E. WHITE,
JACOB SPAHN.