

W. MORGENSTERN.
Bottle-Stoppers.

No. 154,510.

Patented Aug. 25, 1874.

Fig. 1.

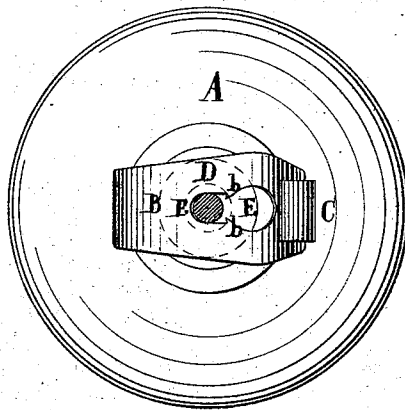
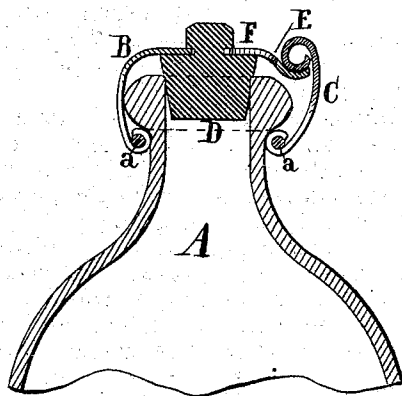


Fig. 2.



Witnesses.

Chas. Wählers.
Henry Gentner.

Inventor.

Wm. Morgenstern
by Vansantvoord Hauff
his Atty.

UNITED STATES PATENT OFFICE.

WILLIAM MORGENSTERN, OF NEW YORK, N. Y.

IMPROVEMENT IN BOTTLE-STOPPERS.

Specification forming part of Letters Patent No. **154,510**, dated August 25, 1874; application filed July 22, 1874.

To all whom it may concern:

Be it known that I, WILLIAM MORGENSTERN, of the city, county, and State of New York, have invented a certain new and useful Improvement in Bottle-Stoppers, of which the following is a specification:

This invention is illustrated in the accompanying drawing, in which Figure 1 represents a sectional plan or top view. Fig. 2 is a vertical central section.

Similar letters indicate corresponding parts.

This invention relates to a bottle-stopper made of rubber, cork, or other soft and elastic material, and which is provided with a head, by means of which it is held in place in the supporting-plate, as fully described in my Letters Patent of the United States, No. 131,111, September 3, 1872.

My present improvement consists in providing the supporting-plate of the stopper with an elongated slot composed of two adjoining holes, which are of different diameter from each other, one hole being of about the diameter of the head of the stopper and the other of about the diameter of its neck, in such a manner that, by inserting the head of the stopper in the large hole, its neck can readily be slipped into place in the smaller one, where it is held in position. At the point where the two holes join each other in the supporting-plate are stops or projections, which are so made that they allow of slipping in or adjusting the neck of the stopper, while they guard against its return or working out.

In the drawing, the letter A designates the neck of a bottle or jar provided with my stopper, which is constructed of a supporting-plate, B, and catch C hinged on a wire, a, and of the stopper proper D, which is held or secured in

the supporting-plate. E F are two adjoining holes, whereby is formed a slot in the supporting-plate, the holes being of different diameter, as shown. The diameter of the largest hole is about equal to or a little smaller than that of the head of the stopper—say, three-eighths of an inch—while the diameter of the small hole is about equal to that of the neck of the stopper, which is about one-fourth of an inch. Between the two holes E F composing the slot in the supporting-plates are divisional projections *b*, which are beveled on one side or edge, while they are straight on the other.

When the head of the stopper is inserted or forced through the large hole E its neck can readily be slipped over the beveled edge of these projections *b* into the small hole F, where it is firmly wedged and held by its elasticity and by the projections, which constitute stops whereby the neck is prevented from working out.

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

1. The combination of the stopper D with the hinged plate B, constructed with the openings E and F of different diameters, and with the hinged plate C, the whole being adapted to close the mouth of a bottle, in the manner herein shown and described.

2. The combination of the stopper D with the plate B, having projections *b b* and openings E F, and with the plate C, substantially as and for the purpose described.

This specification signed by me this 17th day of July, 1873.

WILLIAM MORGENSTERN.

Witnesses:

W. HAUFF,
E. F. KASTENHUBER.

yes to words.