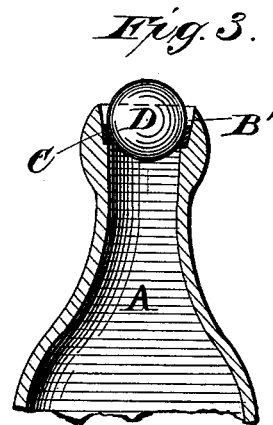
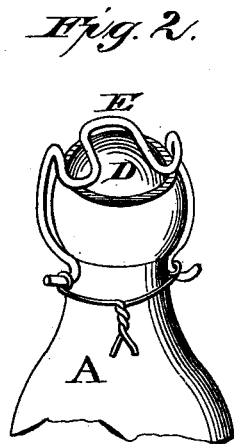
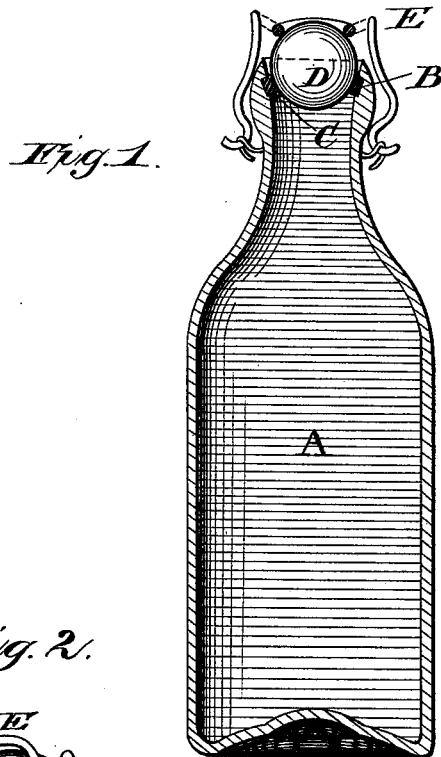


H. B. ANDERSON.
Bottle and Stopper.

No. 221,491.

Patented Nov. 11, 1879.



Witnesses.

Chas. F. Gessert
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UNITED STATES PATENT OFFICE.

HENRY B. ANDERSON, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN BOTTLES AND STOPPERS.

Specification forming part of Letters Patent No. **221,491**, dated November 11, 1879; application filed September 16, 1879.

To all whom it may concern:

Be it known that I, HENRY B. ANDERSON, of the city of St. Louis, in the county of St. Louis and State of Missouri, have invented a new and useful Improvement in Bottle-Stoppers, which invention is fully set forth in the following specification.

The object of this invention is to provide a cheap, convenient, and cleanly bottle-stopper.

The invention consists of a bottle having a compressible packing-ring in its neck, and being provided with a pivoted retaining-wire adapted to be forced over a loose spherical stopper to hold it securely in the bottle-neck, to which end the upper loop of the retaining-wire is made to conform to the shape of the spherical stopper.

In the accompanying drawings, Figure 1 is a vertical sectional view of a bottle fitted with my improved stopper. The rubber packing-ring in this view is fitted within a groove cut in the neck of the bottle. Fig. 2 is a perspective view of the neck of a bottle closed by my improved stopper and retaining-wire; and Fig. 3 is a sectional view of my invention, showing the packing-ring secured within an offset in the bottle-neck.

A is a bottle, of ordinary construction, provided with a groove, B, or an offset, B', in its neck, within which groove or offset is secured packing-ring C, of rubber or other suitable elastic material.

D is a globe or marble, of glass, porcelain, or other hard, non-corrosive substance, and E

is a spring retaining-wire, secured to the bottle in the usual manner, but having its upper retaining-loop curved to conform to the shape of the spherical stopper.

The groove or offset may be formed in the bottle during its manufacture, or readily ground in any of the common bottles now in use; and the rubber ring may be cemented firmly within the groove or offset in the bottle-neck.

The advantages of my stopper are, first, its superior cleanness; secondly, its economy, as the stoppers may be used over again indefinitely; and, thirdly, bottles containing gaseous liquids can be more conveniently and quickly charged and stopped with it than with those now in common use.

I claim—

1. The combination, substantially as before set forth, of the bottle having a compressible packing ring on the inside of the neck and a pivoted retaining-wire adapted to be forced over a loose spherical stopper to hold it securely in the bottle-neck.

2. In combination with a spherical bottle-stopper, D, a retaining-wire, E, said wire having its upper loop curved to conform to the shape of the spherical stopper, substantially as described.

HENRY BLOSSOM ANDERSON.

Witnesses:

WM. F. C. QUEHL,
HENRY W. KAISER.