No. 622,074. Patented Mar. 28, 1899.

C. V. B. REEDER.

BOTTLE STOPPER, RETAINER AND EXTRACTOR.

(No Model.) (Application filed Aug. 18, 1898.)

Fig. 1.

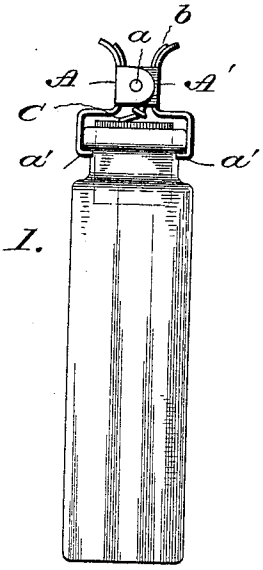


Fig. 2.

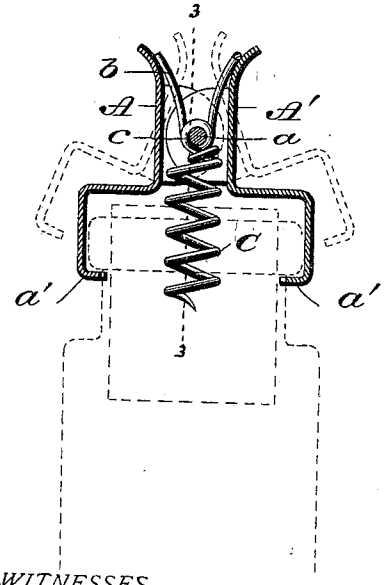


Fig. 3.

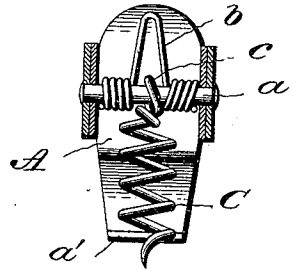
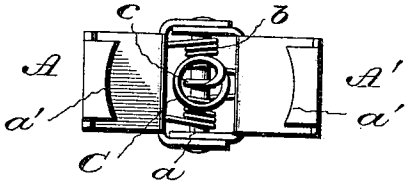


Fig. 4.



WITNESSES

G. S. Elliott.

H. H. Johnson.

INVENTOR

Clinton V. B. Reeder

by Eugene N. Johnson Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CLINTON V. B. REEDER, OF EVERGREEN, CALIFORNIA.

BOTTLE-STOPPER RETAINER AND EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 622,074, dated March 28, 1899.

Application filed August 18, 1898. Serial No. 688,875. (No model.)

To all whom it may concern:

Be it known that I, CLINTON V. B. REEDER, a citizen of the United States, residing at Evergreen, in the county of Santa Clara and State of California, have invented new and useful Improvements in Bottle-Stopper Retainers and Extractors, of which the following is a specification.

This invention relates to improvements in bottle-stopper fasteners of the spring-clasp type; and it consists in the particular construction of a combined bottle-stopper retainer and extractor, as will be hereinafter set forth, the object being to provide a simple, cheap, and effective stopper retainer or extractor which will hold the stopper or cork in the mouth of a bottle, the device being connected with the cork and provided with spring-jaws which engage the bead or annular shoulder of the neck of the bottle adjacent to its mouth.

In the accompanying drawings, which illustrate my invention, Figure 1 is a side elevation showing the application of my improvement. Fig. 2 is a sectional view, the dotted lines showing the position of the spring-clasp when out of engagement with the neck of the bottle. Fig. 3 is a sectional view taken on the line 3 3 of Fig. 2, and Fig. 4 is an inverted plan view.

This improvement is designed especially for use in connection with bottles or vials having necks of comparatively small diameter. The cork used with such bottles being small are liable to displacement as well as destruction in removing. This is especially the case with medicine-vials, though my invention is not limited to such uses.

In the drawings I have illustrated one type of bottle to which my invention is applicable, and therein A A′ refer to the members of a clasp which are connected by a pivot pin or bar *a*, upon which is mounted a spring *b*, the same being coiled about the pin or bar, the ends thereof engaging the upper portion of the side members of the clasp and tend to force the grasping-jaws together. The grasping-jaws *a′* are shaped to lie over the annular bead of the mouth of the bottle and engage with the neck beneath the bead. The upper portion of the clasp is shaped so as to provide a convenient grasping portion.

C refers to a corkscrew or cork-extractor made preferably of a light piece of wire, the upper end of which is formed into an eye *c*, through which the pin or bar *a* passes, and this eye is preferably placed at the center of the pin or bar, the coils of the spring *b* being between the eye and the overlying sides of the clasp. In the construction shown the corkscrew or extractor is held in pivotal engagement with the clasp or cork-retainer and is positioned centrally with relation thereto.

In use the corkscrew or extractor is caused to engage with the cork or stopper, which holds the clasp or cork-retainer in engagement therewith. The clasp having a slight lateral play or movement with respect to the corkscrew permits the clasp to center itself should the eye be to one side of the center of the cork. The grasping-jaws, which are preferably concave, engage the neck of the bottle below the annular bead and hold the cork against displacement. The many advantages and uses of a device of this character are obvious, and I do not limit myself to the particular construction shown, as the same may be varied without departing from my invention.

I claim—

1. A bottle-stopper retainer comprising spring-actuated clasping-jaws for engagement with the exterior of the neck of a bottle when the stopper is inserted therein, and an extractor attached to the connecting means of the clasp so as to be positioned between the members thereof and engage with the stopper, substantially as shown.

2. A bottle-stopper retainer and extractor, comprising a spring-clasp having jaws for engagement with the neck of the bottle, and a helical or spiral cork-extractor in pivotal engagement therewith.

3. A bottle-stopper retainer and extractor comprising a spring-actuated clasp, a bar holding the members of the clasp in pivotal engagement with each other, and a cork-extractor having an eye through which said bar passes, for the purpose set forth.

4. In a cork holder and extractor, the com-

bination of the spring-actuated jaws connected to each other by a cross-bar, a spring mounted on said cross-bar so as to engage with the jaws, a cork extractor or screw mounted on the cross-bar so as to be centrally positioned and retained thereon, substantially as shown and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CLINTON V. B. REEDER.

Witnesses:
L. T. HERNDON,
JAMES REEDER.