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Patented Mar. 20, 1900.

W. T. KOSINSKI.

LOCK SEAL FOR BOTTLES, JARS, &c.

(Application filed Jan. 8, 1898. Renewed Aug. 17, 1899.)

(No Model.)

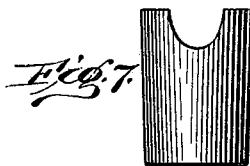
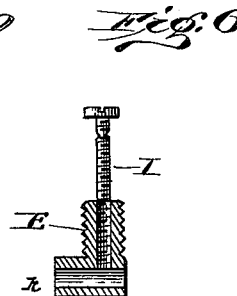
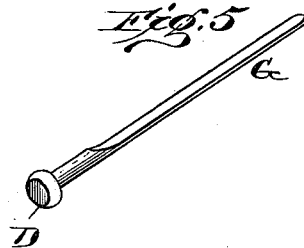
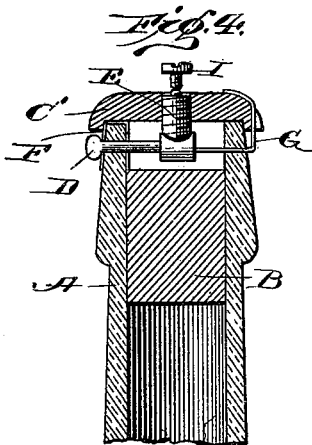
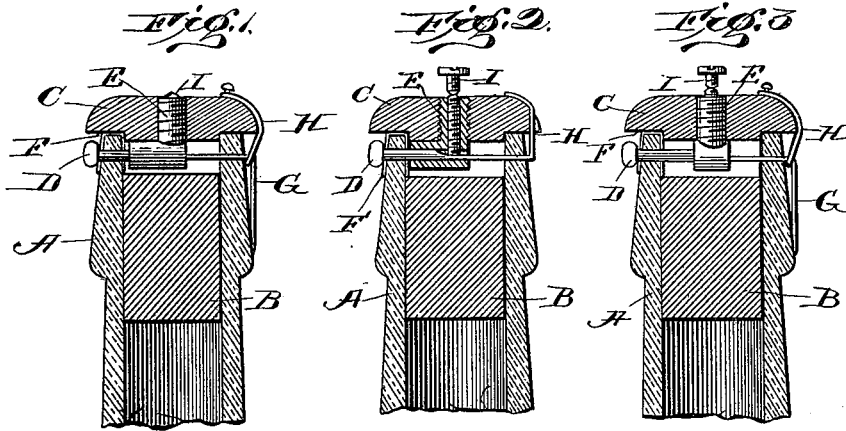
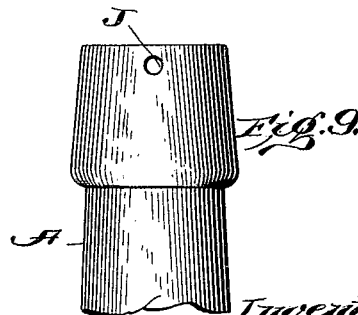
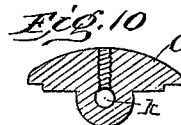
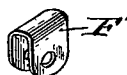


Fig. 8.



witnesses:
J. M. Fowler
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Inventor
W. T. Kosinski

UNITED STATES PATENT OFFICE.

WLADYSLAW THEODORE KOSINSKI, OF NEW YORK, N. Y.

LOCK-SEAL FOR BOTTLES, JARS, &c.

SPECIFICATION forming part of Letters Patent No. 645,857, dated March 20, 1900.

Application filed January 8, 1898. Renewed August 17, 1899. Serial No. 727,540. (No model.)

To all whom it may concern:

Be it known that I, WLADYSLAW THEODORE KOSINSKI, a citizen of the United States, and a resident of New York, (Brooklyn,) county of Kings, State of New York, have invented new and useful Improvements in Lock-Seals for Bottles, Jars, &c., of which the following is a specification.

My invention relates to bottles or other receptacles for containing liquids in which the bottle must necessarily be defaced or partially broken in order to permit the contents of the bottle to be poured out of or removed from the bottle or receptacle, so that the emptied bottle or receptacle cannot be again used for containing liquid, showing to the purchaser that he is obtaining the original package so long as he sees that the mouth of the bottle or receptacle remains unbroken, as will be hereinafter fully described and claimed.

Figure 1 is a vertical sectional view of the neck of a bottle, showing the sleeve, screw-threaded arm, locking-key, and binding or tying wire, the screw broken. Fig. 2 is a vertical sectional view of the same, the locking key or pin being shown in full lines bent upward. Fig. 3 is a vertical sectional view of the device, the binding-screw being shown unbroken and a tie-wire being applied to the locking-key and a stud on the bottle-cap, the tapered end of the locking-key being bent downwardly against the outer face of the mouth of the bottle or vessel. Fig. 4 is a vertical sectional view of the device, showing the tapered flexible end of the locking-key turned upwardly and inwardly within a groove in the outer face of the flanged bottle-cap. Fig. 5 is a view in perspective of the tapered flexible locking-pin. Fig. 6 is an elevation of the sleeve, screw-seat, and locking-screw, showing the break-groove near the upper end of the shank of said screw. Fig. 7 is an elevation of the cork used in connection with this antirefilling bottle or package. Fig. 8 is a view in perspective of the clamp F', which engages the entrance-hole in the mouth of the bottle or vessel on its rim under the cap C on the side of the rigid end of the flexible lock-pin D. Fig. 9 is a side view of a portion of the neck of the bottle, showing the entrance-seat into which the locking-key is

inserted to secure the bottle-cap in place. Fig. 10 is a modification of the cap and screw made in one piece of material.

Referring to the accompanying drawings, 55 A designates the neck of an ordinary bottle. B is the cork ordinarily inserted therein, which is, however, in this instance depressed or driven below the mouth of the bottle. Immediately below its rim-surface the mouth of 60 the bottle is provided with diametrically-opposed holes or perforations J, which are designed to receive the locking-pin D when the latter is inserted in place. This locking-pin is malleable and may be bent downwardly, 65 as shown in Fig. 1, or upwardly, as shown in Figs. 2 and 4. When bent downwardly, as in Figs. 1 and 3, a binding-wire or tie-wire is connected therewith and engages a pin or stud in the top of the bottle-cap C. The cap 70 C is provided with a shoulder or flange F, which rests upon the rim of the mouth of the bottle when the cap is in place and prevents shifting of the cap. The center of the bottle-cap is internally threaded and receives the 75 threaded vertical screw-seat E of the locking-sleeve. When the locking-screw I has been turned down to place, it binds upon the locking-pin D in its seat and prevents its withdrawal therefrom. The tie-wire H also as- 80 sists in preventing the accidental displacement of the locking-pin; but said wire is only used where the flexible locking-pin is bent downward, for where it is bent upward it rests in a groove in the cap or cover of the bottle. 85 The ordinary cork is first inserted in the neck of the bottle and is transversely grooved in its top, as shown in Fig. 7, in order that the locking-sleeve may have a seat therein. When the parts of the bottle-stopper have 90 been put properly in place—that is to say, the locking-screw turned home to fasten the flexible pin in place and prevent its withdrawal—the locking-screw is broken off at the groove near its head, so that it cannot be re- 95 moved from its seat or place without breaking the mouth of the bottle. When this is done, the cap must be removed, and to do this the locking-key must be broken out of its seat at its tapered end and raised or turned 100 up from the mouth of the bottle. When this is done, the clamp at the other side of the

mouth of the bottle being on the locking key or pin carries with it a portion of the mouth of the bottle around the eye or opening through which the locking-pin has been inserted and necessarily breaks away that portion of the mouth of the bottle, so that the bottle is destroyed for refilling purposes and ever afterward remains a damaged bottle for substituting any liquid for that originally contained therein.

The bottle is of frangible material and may be broken easily under ordinary usage.

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

1. The combination with a vessel of frangible material, as a bottle, having alined holes near the rim of its mouth, of a perforated clip fitted to one of said holes, a grooved flanged cap fitting the mouth of the bottle and having a sleeve connected with a screw-seat supported in said flanged cap, a flexible locking pin or key supported in the vessel-mouth and sleeve and deflected at its flexible portion against the exterior of the vessel, as set forth.

2. The combination with the mouth of a vessel of frangible material—as a bottle or jar—having diametrically-opposed holes in its rim, of a flanged cap having a central opening, a sleeve secured therein by a threaded hollow arm, a flexible locking-pin seated in the openings in the vessel-mouth and in the sleeve of the vessel-cap, a locking-screw seated in the threaded hollow arm and provided near its upper end with an encircling weakening groove to permit it to be broken off after having been turned to place, as set forth.

3. The combination with a bottle-mouth having alined holes in its rim, of a flanged bottle-cap having a central hollow angular threaded arm, a portion of which is seated in the bottle-cap, a flexible locking-pin fitting a portion of the locking-arm, and a grooved

screw made breakable near its upper or headed end, substantially as specified.

4. The combination with a vessel-mouth—as a bottle or jar—having alined holes near its rim, of a clip fitting one of said alined holes, a cap fitting the mouth of the vessel, a threaded arm seated in the cap and having a horizontally-disposed sleeve at its lower end, a flexible pin fitting the alined holes and sleeve, and a grooved binding-screw formed to be broken near its head, substantially as set forth.

5. The combination with the bottle-neck having alined holes near its mouth, of the cap, provided with a vertical threaded sleeve and a horizontal arm, of the flexible locking-pin and the binding-wire engaging a screw in the top of the cap, as set forth.

6. The combination with a bottle-cap or vessel-cap having a central opening therein, of a vertically-disposed threaded portion having a horizontally-disposed integral sleeve at its lower portion, of a tapered partly-flexible and partly-non-flexible locking pin or key, substantially as specified.

7. The combination with a bottle or vessel mouth having alined holes near its rim, of a bottle-cap or vessel-cap having an externally and internally centrally disposed threaded stem seated in said cap and having at its lower portion an integral sleeve disposed at right angles to said stem, of a headed locking-pin, rigid near its head, and tapered toward its point, and flexible throughout its tapered portion, as set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 18th day of August, 1897.

WLADYSLAW THEODORE KOSINSKI.

Witnesses:

MICHAEL TWAROWSKI,
D. P. CURL.