No. 818,984. PATENTED APR. 24, 1906.

J. SOLATINOW.

BOTTLE LOCK.

APPLICATION FILED JAN. 16, 1906.

Fig: 1.

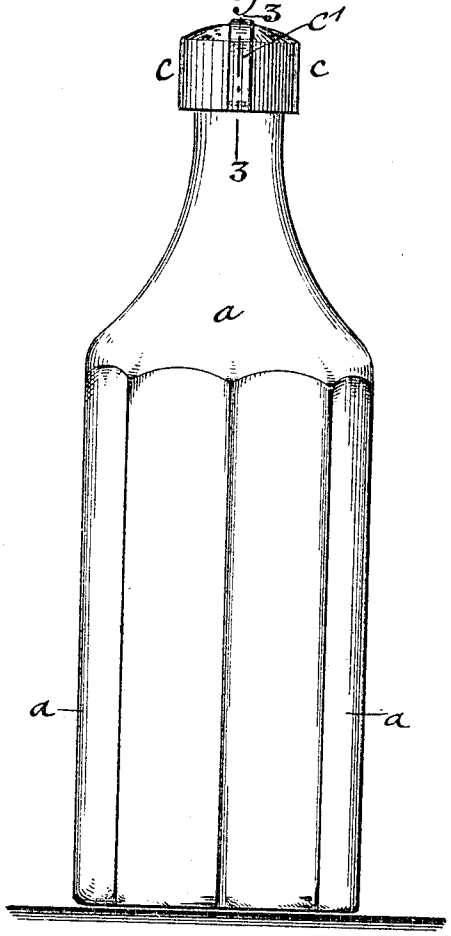


Fig: 2.

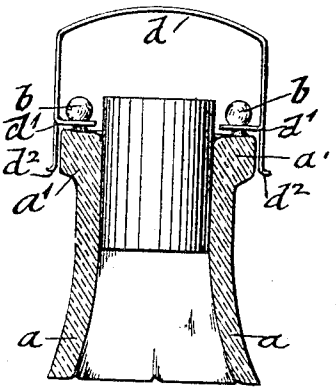


Fig: 3.

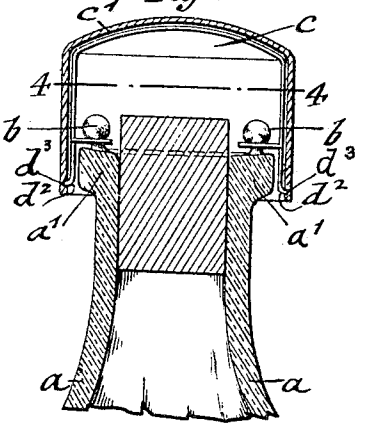


Fig: 5.

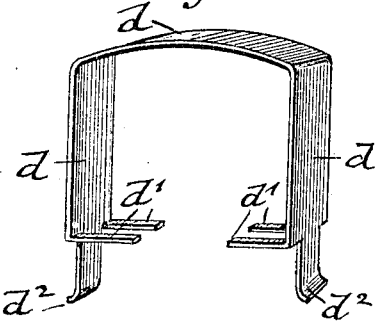
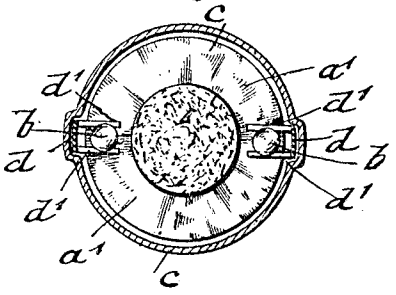


Fig: 4.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH SOLATINOW, OF PATERSON, NEW JERSEY, ASSIGNOR OF ONE-HALF TO FRANK SCHMITTER, OF PATERSON, NEW JERSEY.

BOTTLE-LOCK.

No. 818,984. Specification of Letters Patent. Patented April 24, 1906.

Application filed January 16, 1906. Serial No. 296,243.

To all whom it may concern:

Be it known that I, JOSEPH SOLATINOW, a citizen of the United States, residing in Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Bottle-Locks, of which the following is a specification.

This invention relates to bottle-locks or devices by which bottles containing alcoholic beverages, medicines, or other liquids are prevented from being opened by unauthorized parties so as to remove the contents and refill the bottle with spurious liquid; and for this purpose the invention consists of a bottle-lock which comprises a bottle-mouth provided with frangible retaining-studs fused on the rim of the bottle, a U-shaped spring provided with means for interlocking with the studs, and a cap extending over the spring and bottle-rim and adapted to interlock with the ends of the spring when the cap is placed in position; and the invention consists of certain additional details of construction, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side elevation of a bottle with my improved bottle-lock. Fig. 2 is a vertical transverse section through the bottle-mouth, showing the U-shaped spring placed in position on the studs on the bottle-rim. Fig. 3 is a vertical transverse section on line 3 3, Fig. 1. Fig. 4 is a horizontal section on line 4 4, Fig. 3; and Fig. 5 is a perspective view of the locking-spring of the improved bottle-lock.

Similar letters of reference denote similar parts in the different figures of the drawings.

Referring to the drawings, *a* represents a bottle of any desired size or shape. The rim *a'* of the bottle-mouth is provided at diametrically opposite points with upwardly-extending ball-shaped frangible studs *b*, which are made of glass, like the bottle, and which are fused onto the upper face of the rim *a'* while the bottle is in course of manufacture. Over the rim of the bottle-mouth is placed after the bottle has been filled and corked a locking-spring *d* of inverted-U shape, which is provided with inwardly-extending lugs *d'*, that are made in one piece with the legs of the spring *d* and bent up at right angles to the same. The pair of lugs *d'* on each leg of the spring *d* is made to straddle and interlock with the base of the studs on the rim, as shown in Fig. 2. A sheet-metal cap *c* is then pushed down over the spring *d* and bottle-rim until it incloses the spring and locks the lugs *d'* on the studs *b*. The cap *c* is provided at its sides and top with a raised portion *c'*, into which the spring is seated when the cap is pushed down over the same, as shown in Fig. 3. The lower ends of the spring *d* are bent outwardly, so as to form lips d^2, which spring into engagement with the recessed lower edge d^3 of the cap *c*, so as to permanently interlock with the same.

When the bottle is to be opened, the cap is forcibly turned so as to wrench off by the projecting lugs *d'* the studs *b* from the bottle-rim and permit thereby the removal of the cap and the opening of the bottle by withdrawing the cork. When the studs *b* are removed from the bottle-rim, the spring and cap can never be relocked on the bottle. Until the bottle is desired to be opened the cap forms a protecting-lock for the bottle and the contents of the same, so that the bottle cannot be tampered with nor refilled with spurious liquids by unauthorized parties.

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

1. The combination, with a bottle provided adjacent to its mouth with frangible studs, of a locking member engaging said studs, and a cover interlocked with said member and retaining the same in engagement with said studs.

2. The combination, with a bottle provided with frangible studs adjacent to the mouth thereof, of a locking member engaging said studs and provided with spring-lips, and a cover inclosing said member and having a recessed portion sprung into engagement with said lips.

3. The combination, with a bottle having upon the rim thereof upwardly-extending ball-shaped studs, of a member of inverted-U shape having legs provided with inwardly-extending spaced lugs straddling said studs at their reduced lower portions, and means to permanently maintain said lugs in such engagement with said studs while the latter are unbroken.

4. The combination, with a bottle having upon the rim thereof diametrically located upwardly-extending frangible ball-shaped

studs, of a spring straddling the mouth of said bottle and having inwardly-extending lugs straddling said studs at their lower portions, the lower ends of said spring being formed into spring-lips, and a cover maintaining said lugs in engagement with said studs and having a recessed lower edge engaging said lips of the spring.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JOSEPH SOLATINOW.

Witnesses:
PAUL GOEPEL,
HENRY J. SUHRBIER.