

J. A. GURCHKE.
MILK BOTTLE SAFE.
APPLICATION FILED NOV. 16, 1911.

1,060,081.

Patented Apr. 29, 1913.

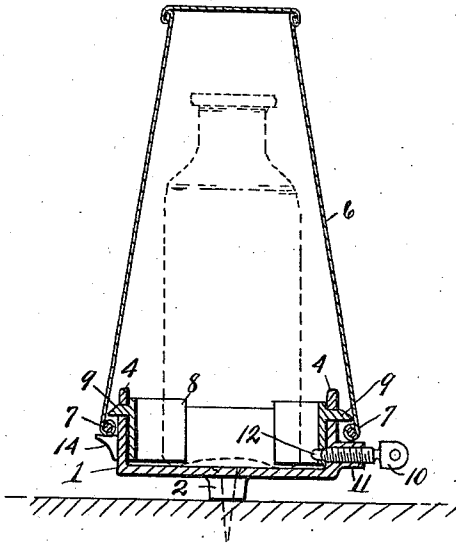


Fig. 1.

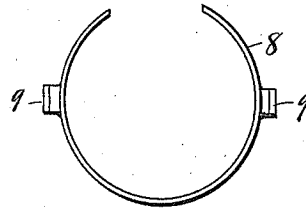


Fig. 2.

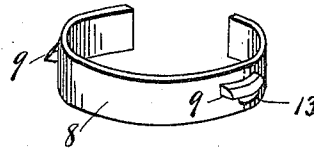


Fig. 3.

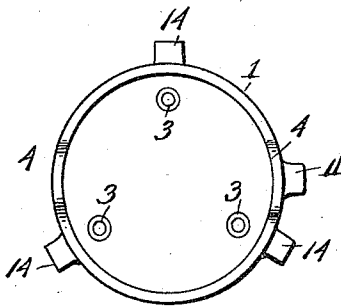


Fig. 4.

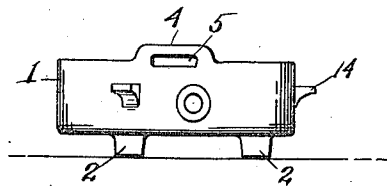


Fig. 5.

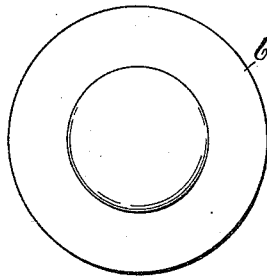


Fig. 6.

Witnesses

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UNITED STATES PATENT OFFICE.

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MILK-BOTTLE SAFE.

1,060,081.

Specification of Letters Patent.

Patented Apr. 29, 1913.

Application filed November 16, 1911. Serial No. 660,585.

To all whom it may concern:

Be it known that I, JOHN A. GURCHKE, a citizen of the United States, residing at Detroit, in the county of Wayne, State of Michigan, have invented certain new and useful Improvements in Milk-Bottle Safes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

This invention relates to receptacles especially designed for receiving milk and cream bottles but adaptable for receiving other commodities, and consists in the construction and arrangement of parts hereinafter more fully set forth and pointed out particularly in the claims.

The object of the invention is to provide simple and efficient means for securely retaining milk bottles and other commodities which are periodically left at the house and are usually delivered on the back porch, the arrangement being such as to insure safety and cleanliness, and prevent the surreptitious removal of any article after being placed in the receptacle.

The above object is attained by the device illustrated in the accompanying drawings, in which:—

Figure 1 is a central vertical section through a receptacle embodying my invention. Fig. 2 is a plan view of the spring locking ring employed to detachably lock the top or cover to the base of the receptacle. Fig. 3 is a perspective view of said ring. Fig. 4 is a plan view of the base. Fig. 5 is an elevation of the base. Fig. 6 is a plan view of the top or cover.

Referring to the characters of reference, 1 designates the base which is made circular in form and preferably of cast metal, being provided with a plurality of feet 2 having apertures 3 (see Fig. 4) through which screws may be passed to secure the base in place, as shown in Fig. 1. Upon opposite margins of the vertical flange of the base are formed ears 4 having slots 5 there-through which form keepers for the catches of the lock, as hereinafter explained. The top or cover 6 is preferably conical in form, and the bottom edge thereof is rolled inwardly, as shown at 7, to strengthen the

cover and at the same time afford a circular bead or shoulder to be engaged by the catches of the lock.

Lying within the circular base, and conforming to the contour thereof, is an open ring 8 formed of suitable spring metal. Projecting outwardly from opposite faces of said ring 8 are the catches 9 which are beveled on their upper faces. The ring 7 is so disposed within the base that the catches thereof will lie in and project through the slots or keepers 5 in the ears 4 of the base. To place the cover upon the base it is pressed downwardly thereover with sufficient force to cause the ring to spring inwardly and allow the roll 7 at the lower margin of the cover to pass the catches 9, when the ring will spring outwardly and project said catches over the rolled margin of the cover in a manner to lock the cover to the base, as clearly shown in Fig. 1.

To enable the cover to be removed after being locked in position upon the base, a key in the form of a thumb screw 10 is employed which is adapted to be screwed into a tapped boss 11 formed upon and projecting from the base, said screw passing through said boss and engaging the ring 8. It will be noted on referring to Fig. 1 that the inner end of the screw 10 is reduced as shown at 12, and that there is formed in the ring 8, in alinement with the aperture through the boss 11, an opening 13 (see Fig. 3) into which the reduced end of the screw may enter. The diameter of said opening 13, however, is less than the diameter of the screw through the threads thereof, whereby, as said screw by rotation thereof is screwed through the threaded boss its reduced end 12 will first enter the opening 13 in the locking ring, and then by further rotation of the screw the threaded portion thereof will engage the margin of said opening in said ring and spring the ring inwardly so as to retract the catch 9 on the side of said ring adjacent said screw sufficiently to carry it from engagement with the rolled margin 7 of the top, when said top may be tilted backwardly and then lifted from the base.

The screw key 10 will never be left in the base but will always be in possession of the person who has lawful access to the receptacle. By reason of the fact that the locking ring 8 has an aperture therein in alinement with the opening of the boss 11, and nearly of the same diameter, the unlocking of the

receptacle by the insertion of a nail or other instrument through the boss 11 is rendered impossible, or at least exceedingly difficult.

By making the threads of the screws or keys of different trend it will not be possible to unlock one receptacle by the key of another.

In using this device the milk bottle, or other commodity which is to be delivered, is placed upon the base within the marginal flange thereof, and the cover which is normally removed from the base is placed in position thereon by forcing it downwardly over the spring catches 9, when said cover becomes automatically locked to the base and cannot be removed to expose the contents of the receptacle until said receptacle is unlocked by a proper key. By this arrangement milk or other commodities may be delivered with perfect security at hours when no one is present to receive them, and at the same time the articles, as in the case of milk bottles, are protected from flies and prowling animals. When the cover is locked in position on the base it is supported by the projecting lugs 14 of said base formed thereon.

Having thus fully set forth my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A receptacle comprising a circular base having a surrounding vertical flange, a spring ring within the base concentric with and lying against said flange, said ring having a beveled catch which projects freely through an opening in said base flange, a cover adapted to fit over the flange of the base having a continuous inwardly extend-

ing marginal portion adapted to cooperate with said catch to lock the cover and base together, and means movable through the flange of the base for retracting said spring ring to withdraw said catch from engagement with said marginal portion of the cover.

2. A receptacle comprising a base having a surrounding vertical flange, a spring member within the base having a beveled catch which projects through the flange thereof, a cover adapted to fit over the flange of the base having a continuous marginal projection adapted to cooperate with said catch to lock the cover and base together, and means for retracting the spring member to withdraw said catch through the flange of the base from the marginal projection of the cover.

3. A receptacle comprising a base, having marginal slotted ears, an open spring ring lying within the base and having catches that project through the slotted ends of the base, a cover adapted to embrace the wall of the base and having a marginal projection which cooperates with said catches to lock the cover to the base, and a threaded key threaded through the wall of the base and adapted to actuate the spring ring to retract a locking catch thereon and release the cover.

In testimony whereof, I sign this specification in the presence of two witnesses.

JOHN A. GURCHKE.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."