No. 815,654. PATENTED MAR. 20, 1906.

E. F. STROBEL.

BOTTLE LOCKING DEVICE.

APPLICATION FILED JUNE 13, 1905.

2 SHEETS—SHEET 1.

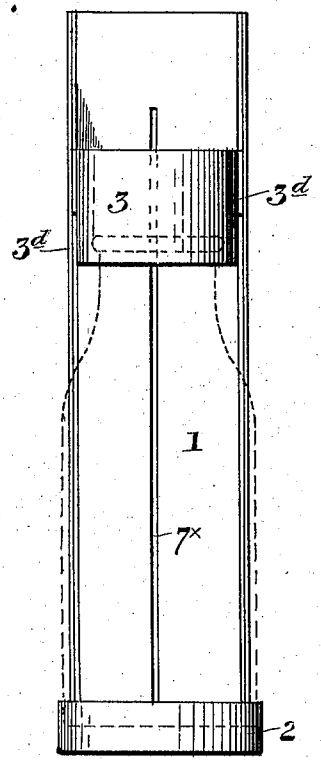


Fig. 1.

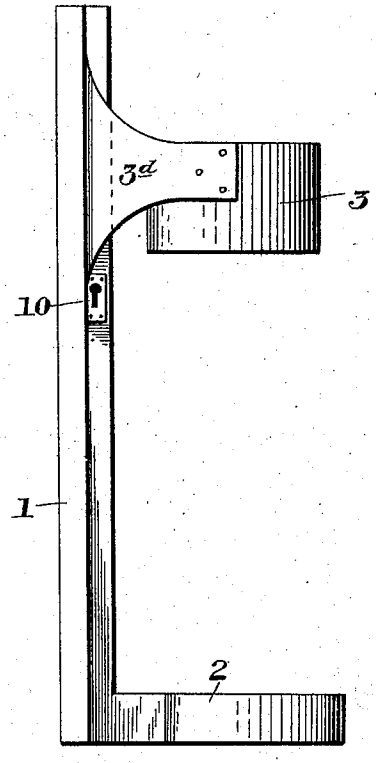


Fig. 3.

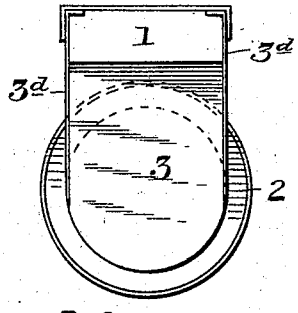


Fig. 2.

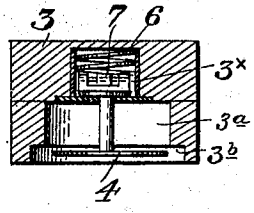


Fig. 8.

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2 SHEETS—SHEET 2.

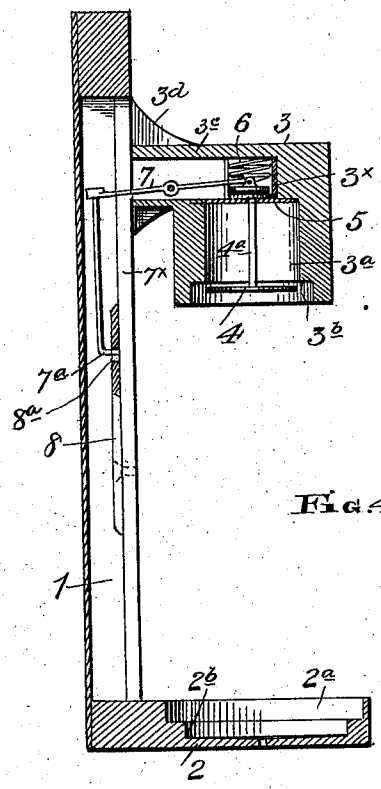


Fig. 4.

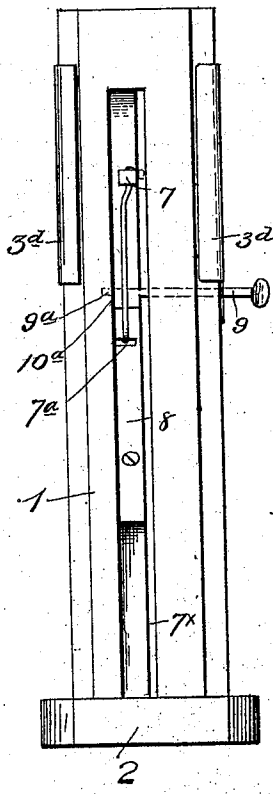


Fig. 5.

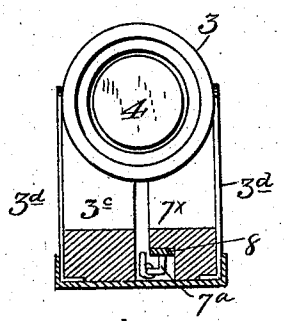


Fig. 6.

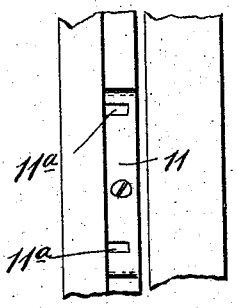


Fig. 7.

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UNITED STATES PATENT OFFICE.

EDWARD FREDRICK STROBEL, OF PITTSBURG, PENNSYLVANIA.

BOTTLE-LOCKING DEVICE.

No. 815,654. Specification of Letters Patent. Patented March 20, 1906.

Application filed June 13, 1905. Serial No. 265,098.

To all whom it may concern:

Be it known that I, EDWARD FREDRICK STROBEL, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Bottle-Locking Devices, of which the following is a specification.

My invention relates to improvements in what may be appropriately termed "bottle or jar holding" contrivances.

Objects of the invention are to provide for the effective securing in place as against clandestine removal of the bottle or jar with its contents, to permit the loosening or limited movement of the bottle in event of the adhering milk freezing thereto without endangering the breaking of the jar or bottle and yet retain the latter in its locked position, and to carry out the aforesaid objects in a simple, economic, and expeditious manner.

Said invention consists of certain structural features substantially as hereinafter fully disclosed and particularly specified.

In the accompanying drawings, Figure 1 is a front elevation of the preferred form of my invention. Fig. 2 is a plan view thereof. Fig. 3 is a side elevation, and Fig. 4 is a vertical central section, of the same. Fig. 5 is a rear elevation thereof with the back plate or housing removed. Fig. 6 is a horizontal section viewing upward toward the bottle-retaining clamp. Fig. 7 is a fractional detailed view showing a modification of the notched catch or means for engagement with the bottle clamp, detent, or dog to accommodate bottles or jars of different capacities. Fig. 8 is an enlarged detailed section of the bottle or jar cover engaging device interposed between the jar and its retaining-clamp.

In the disclosure of my invention I provide an upright piece, bracket, or member 1, to the lower end of which is securely fastened a base member 2 and upon which is arranged a slidable or adjustable clamp or follower member 3 and which member or bracket is firmly secured or bolted in position at any convenient point to the owner and for its use. The base member 2 has an inner stepped surface, as at 2^a 2^b, thus accommodating the same for the reception of bottles or jars of different cross-sections or diameters, according to their holding capacities, whether of a pint or quart or other containing capacity. The clamp or follower member 3 has a chamber or is produced hollow, as at 3^a, which chamber opens downward and is also stepped near its lower inner edge to form a ledge 3^b therein, against which abuts or bears the upper edge of the bottle or jar, as is obvious. Said clamp or follower member has its inward-extended portion 3^c abutting the inner vertical surface of the upright member 1 to slide or move thereon and is equipped with lateral cleats or plates 3^d, embracing the latter with their angular terminals extending inward and behind said upright member to guide and hold the same in position thereon. The upright member 1 has its rear marginal edges sufficiently reduced to remove the inward-extending terminals of the cleats or plates 3^d from contact with the fixture or part to which said upright member may be attached. Said clamp or follower member has arranged and depending within its chamber a disk or plate 4, constituting a supplemental clamp member having centrally secured thereto a suspending stem or rod 4^a, extending also centrally through a disk or partition 5, subdividing said chamber and forming a subchamber $3^\times$ thereabove containing or housing a spring 6, effective to exert or deliver its pressure upon said stem and through the latter upon said disk 4, holding it normally depressed to rest upon or engage the jar or bottle top, cover, or stopper, the more particular purpose of which will be disclosed later. To the upper end of the stem 4^a of said disk is connected one end of a practically right-angled lever or dog 7, suitably fulcrumed in the clamp or follower member 3 with its vertical or pendent arm arranged within a slot or recess $7^\times$ in the member 1 and having its lower end formed with a projection or tooth 7^a, effective to engage a notch or indentation 8^a, produced, preferably, in a plate 8, screwed or otherwise secured in the bottom of said recess out of the way.

It will be noted that with a jar or bottle put in position upon the bracket above described and by moving the follower or clamp 3 down upon the upper edge thereof and engaging the lower end projection or tooth 7^a of the dog or lever 7 with the notch 8^a of the plate 8 the jar or bottle may be effectively locked or clamped in such position. Thus the removal by unauthorized persons of said bottle, presumably for purposes of theft, is effectually prevented. In order, however, to permit the authorized removal of said bottle, a key 9 is furnished for that purpose, to effectively use which the same is properly inserted

into a key-opening 10, produced in the edge of the upright member 1 with its axial stud or projection 9^a bearing in an alining socket 10^a in the farther wall of the recess or slot $7^\times$, while its bit is brought opposite or under the pendent arm of the dog 7, said key then being suitably turned, causing its bit to engage said arm of dog and retract its stud or tooth from its receiving notch, accordingly releasing the clamp and permitting the removal of the bottle.

In case of the freezing of milk adhering to the bottle it is apparent that by requisitely moving the latter, as permitted to a limited extent, as before noted, by the spring-cushioned or yielding disk within the chamber of the clamp 3 the bottle may be readily freed of this incumbrance without incurring the danger of breaking the bottle, as is obvious, and yet not interfere with its locked position.

In the modification as disclosed by Fig. 7 a plate 11, having a number of notches or indentations 11^a, may be substituted for that aforesaid described, whereby the contrivance may be adapted to accommodate bottles of a half-pint, pint, or quart.

I claim—

1. A contrivance of the character described, comprising an adjustable clamp effective to engage the top edge of the bottle or jar, and a locking dog or lever fulcrumed upon said clamp, and a notched fixture, said lever or dog having one arm effective for engagement with a notch of said fixture.

2. A contrivance of the character described, comprising a vertically-sliding primary clamp member effective to engage the jar or bottle at its upper edge, a spring-cushioned supplemental clamp arranged in said clamp, for engagement with the top or cover of the jar or bottle, and means for securing said primary clamp, with said supplemental clamp, in locked position.

3. A contrivance of the character described, comprising a primary clamp effective for engagement with the upper edge of the bottle, a supplemental clamp yieldingly cushioned within said primary clamp, a right-angled dog or lever connected to said supplemental clamp and fulcrumed upon said primary member, and a notched plate, said dog or lever having one end adapted to be locked into engagement with said notched plate.

4. A contrivance of the character described, comprising a sliding primary clamp member for engagement with the bottle at its upper edge, a spring-cushioned supplemental clamp member within said primary clamp member, a notched plate, a right-angled dog connected to said supplemental clamp member, and fulcrumed upon said primary clamp member and effective to engage said notched plate, and an unlocking device effective to engage said lever and retract it from the notches of said plate.

In testimony whereof I affix my signature in presence of two subscribing witnesses.

EDWARD FREDRICK STROBEL.

Witnesses:
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HARRY C. HARRINGTON.