Sept. 15, 1936. F. C. SCHROEDER 2,054,341

BOTTLE HOLDER

Filed March 23, 1936

Fig. 1.

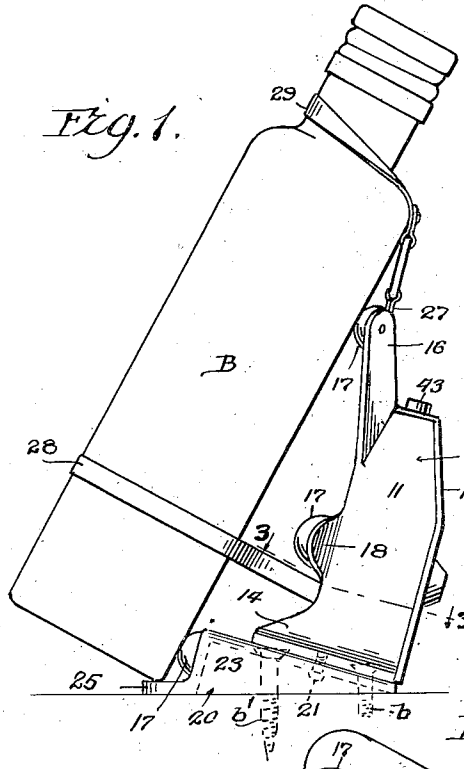


Fig. 2.

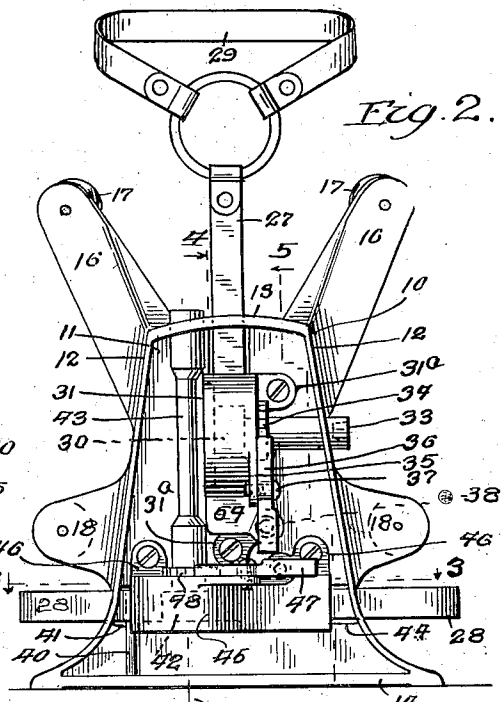


Fig. 3.

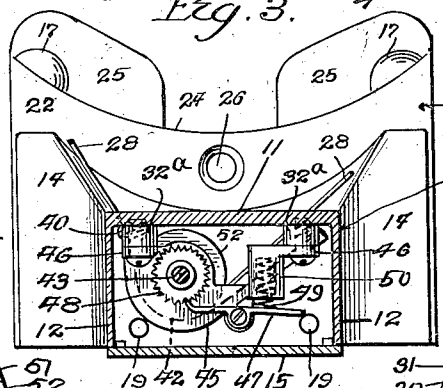


Fig. 4.

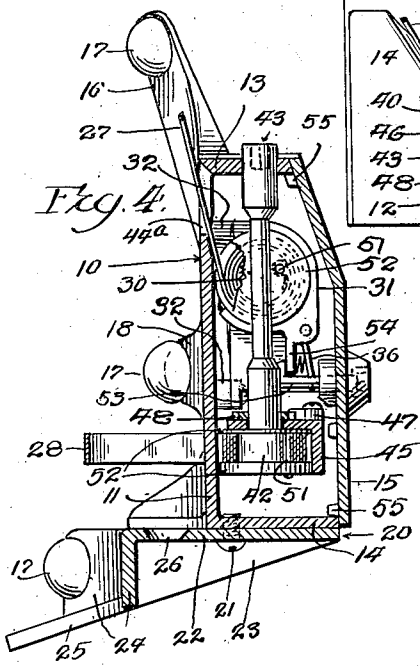


Fig. 6

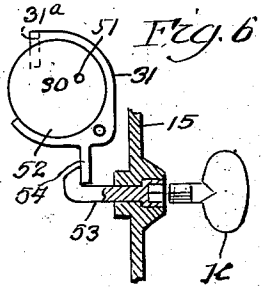
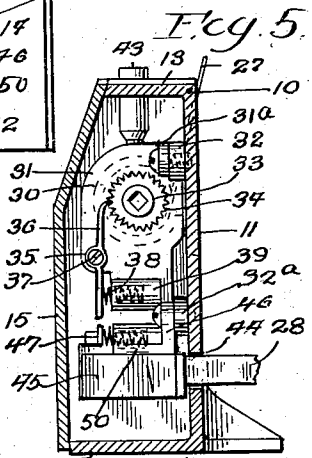


Fig. 5.



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BOTTLE HOLDER

Fred C. Schroeder, Oak Park, Ill.

Application March 23, 1936, Serial No. 70,317

7 Claims. (Cl. 248—154)

This invention relates to bottle holders.

The principal object of this invention is to prevent displayed bottles from being stolen. Bottles of liquor, perfume bottles and other bottles containing expensive contents, displayed on counters, shelves and the like in stores are likely to be stolen or carried away by unauthorized persons. The theft of such articles is very high and often the missing bottles cannot be accounted for.

Another object of this invention is the provision of a bottle holder, capable of being screwed, bolted or otherwise securely fastened upon counters, shelves and other supports and provided with bottle clasping means controlled by key operated mechanism for locking the bottle to the holder, whereby no one, except an authorized person provided with the proper key, can remove the bottle from the holder.

Another object is the provision of a body for containing elements of the bottle locking means and having a base, either as a part of the body or bolted or otherwise secured thereto, and when separately formed having an inclined top to which the body of the bottle holder is secured, whereby the bottle may be lockingly held in an inclined position, whereby to more effectively display the goods.

With these and other objects and advantages in view, this invention consists in the several novel features hereinafter fully set forth and claimed.

The invention is clearly illustrated in the drawing accompanying this specification, in which:

Fig. 1 is a side elevation of a bottle holder embodying a simple form of the invention and showing a bottle locked thereto;

Fig. 2 is a rear elevation of the bottle holder with a certain cover plate and its auxiliary base removed therefrom;

Fig. 3 is a view, partly in plan and partly in horizontal section, taken on the line 3—3 of Figs. 1 and 2;

Fig. 4 is a vertical cross-section, taken on the line 4—4 of Fig. 2;

Fig. 5 is a vertical, cross-section, taken on the line 5—5 of Fig. 2; and

Fig. 6 is a detail view, partly in side elevation and partly in vertical section, illustrating locking means between the body and cover.

Referring to said drawing, the reference character 10 designates the body of the device, here shown in the form of a chambered body having a front 11, two sides 12, a top 13 and a widened bottom or base 14. A cover 15 is provided for closing the open back of the body and locking means are provided for locking the cover to the body to prevent unauthorized access to the interior thereof.

From the upper corner portions of the body extend a pair of bottle engaging arms 16 that incline outwardly and forwardly of the body and desirably have rubber tips 17 on their extremities adapted to engage a bottle B adjacent its upper end.

Between the arms 16 and the base 14 is another pair of arms 18 that project laterally and forwardly from the body and desirably have rubber tips 17 on their extremities for engaging a smaller bottle than the one shown, or for holding the bottle at a different angle from that shown. The base projects forwardly of the body and its front edge is desirably curved inwardly to receive a round bottle.

The body may stand upright, as seen in Figs. 2 and 5, and the base 14 thereof is provided with screw holes 19 for the reception of screws or bolts *b*, whereby the device may be securely fastened to a counter, shelf or other support.

To display a bottle in an inclined position, as seen in Fig. 1, an auxiliary base 20 is provided which is fastened to the body base by screws 21. The auxiliary base 20 is formed with a top wall 22 from which project triangular shaped side walls 23 and an inwardly rounded front wall 24. From the side and front walls, flanges 25 extend forward of the front wall and in some cases form a rest for a bottle to rest on, as seen in Fig. 1. Desirably rubber tips 17 are secured to the front wall 24 of the auxiliary base in position to engage with the lower end portion of the bottle. A screw hole 26 is formed in the top wall 22 of the auxiliary base for the reception of a screw or bolt b^1, whereby the device may be rigidly fastened in place on a counter, shelf or the like, with the body 10 extending in an oblique direction.

Extending out from the body are bottle clasping means of any desirable kind, here shown in the form of two spring steel straps 27, 28, which are adapted to clasp the bottle and tightly hold it against unauthorized removal. The strap 27 is provided at its outer end with a loop 29 which may be passed around the neck of the bottle, and the strap 28 is looped around the body thereof. Winding drums are provided in the body for drawing the bottle tightly against the members of the body that are adapted to engage with the bottle, thereby effectively locking the bottle to the device.

Any desirable tightening mechanism for the straps may be employed and desirably said tightening mechanism is key operated, whereby the mechanism cannot be manipulated except with the proper key. The tightening mechanism illustrated will now be described.

Rotatively mounted in the body is a winding drum 30 to which the inner end of the strap 27 is attached. The strap 27 enters the body

through an opening 44a in the front wall (see Fig. 4). As shown, a housing 31 is provided for the drum, which housing is formed with ears 31a fastened by screws to lugs 32 formed on the front wall of the body. The shaft or spindle 33 of the drum 30 projects through the housing 31 and protrudes from one side wall 12 of the body where it is formed with a key socket for the reception of a key K (see Fig. 6) by which it is turned.

On the spindle 33 is secured a ratchet 34 and on an ear 35 of the housing is pivotally mounted a pawl 36, as by a screw 37, and spring pressed into locking engagement with the ratchet by a spring 38 seated in a socket member 39 also formed on the housing 31.

With the proper key the drum 30 may be turned, thereby winding the strap 27 thereon until the bottle is tightly drawn down upon the base of the device.

One end of the strap 28 is anchored upon a post 40, secured in the body. From the post 40 the strap extends out through an opening 41 (see Fig. 2) in the front wall and is looped back through another opening 44 and fastened to a winding drum 42 from which a shaft or spindle 43 extends upward and protrudes from the top wall 13 of the body. The upper end of the spindle 43 is also provided with a key socket for the reception of a key.

The two drum assemblies are of substantially similar construction. Briefly, the winding drum 42 is contained in a drum housing 45, provided with ears 46 (see Fig. 3), fastened by screws to lugs 32a on the front wall of the body. A pawl 47 and ratchet 48 are provided for the winding drum, as in the case for the winding drum 30. The pawl is spring pressed into engagement with the ratchet by a spring 49 contained in a socket member 50 formed upon the housing 45. In each drum assembly the steel strap is fastened to the drum by a pin 51 (see Fig. 4) and the coil of the strap is confined between flanges 52 on the spindle.

The locking means for the cover may comprise a key operated lock bolt 53, rotatably mounted in the cover 15 (see Fig. 6) and adapted to engage with a lug 54 which is formed as a part of and extends down from the drum housing 31. Desirably the cover is provided with lugs 55 arranged to engage in the corners of the walls of the body to position the cover thereon. The same key K which operates the winding drums may be used to operate the lock bolt.

To lock a bottle to the device, the loop 29 is passed around the neck of the bottle and the loop in the strap 28 is passed around the body of the bottle. The key K is then engaged with the spindle 33 and turned and the strap 27 wound up as tightly as possible, thereby drawing the bottom of the bottle down upon the base of the device.

The key is then engaged with the spindle 43 and turned, and the strap 28 drawn up as tightly as may be. In each instance the pawl and ratchet mechanism prevents the straps from unwinding. In this condition the bottle is securely locked to the device and can only be removed by disengaging the pawls from the ratchets so as to permit the straps to be drawn out far enough to be disengaged from the bottle.

In order to obtain access to the pawls, the cover must be removed and this can be done only by a person having the key which fits the key socket in the lock bolt 53.

From the above it is readily apparent that a bottle may be displayed in an effective manner without covering any substantial portion of its label. Furthermore, various sizes and shapes of bottles may be locked to the device. Furthermore, by removing the auxiliary base, the device may be set upright and may support bottles in upright or slightly inclined positions.

More or less variation of the exact details of construction is possible without departing from the spirit of this invention. I desire, therefore, not to limit myself to the exact form of the construction shown and described, but intend, in the following claims, to point out all of the invention disclosed herein.

I claim as new and desire to secure by Letters Patent:

1. A bottle holder, comprising in combination a body having a base, bottle clasping means, key operated actuating means mounted on said body for operating said bottle clasping means, and locking means serving to prevent the release of said actuating means by the key, whereby to lock a bottle to the body.

2. A bottle holder, comprising in combination a chambered body provided with a base and forwardly and laterally projecting bottle engaging arms, a bottle holding strap, strap tightening means comprising a key controlled drum mounted in said body, and pawl and ratchet mechanism for said drum, and a lock controlled cover for enclosing the strap tightening means.

3. A bottle holder, comprising in combination a body having a base and forwardly and laterally projecting bottle engaging means, a strap extending transversely of the bottle and adapted to extend around the body thereof, and a strap extending lengthwise of the bottle and having a loop arranged to extend around the neck of a bottle, key operated winding drums, one for each strap, rotatably mounted on said body, and pawl and ratchet mechanism for said drums.

4. A bottle holder, comprising in combination a chambered body provided with a base and laterally projecting bottle engaging arms, neck and body engaging straps, key operated winding drums in the chamber of the body, one for each strap, pawl and ratchet mechanism for each drum, and a lock controlled cover for said chambered body.

5. A bottle holder, comprising in combination an upright body, provided with a horizontal base and laterally and forwardly projecting bottle engaging arms for spacing a bottle from the body, bottle clasping means, a key controlled actuating means therefor, and an auxiliary base having an inclined top upon which the body is rigidly fastened in an inclined position.

6. A bottle holder, comprising in combination a body provided with a base and laterally and forwardly projecting bottle engaging arms, bottle clasping means, a key operated actuating mechanism therefor, and a base extension having bottle engaging means and being rigidly connected with the body, said bottle clasping means serving to draw the bottle against said arms and base.

7. A bottle holder, comprising in combination a body having a base, adapted to be fastened to a support, bottle clasping means for the neck and for the body of a bottle, and key operated actuating means mounted on said body operating to exert tension on said bottle clasping means, in two directions, whereby to lock the bottle to the body.

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