M. A. GOULD.

BOTTLE SUPPORT AND STOPPER PULLER.

APPLICATION FILED APR. 11, 1908.

926,112. Patented June 29, 1909.

Fig. 1.

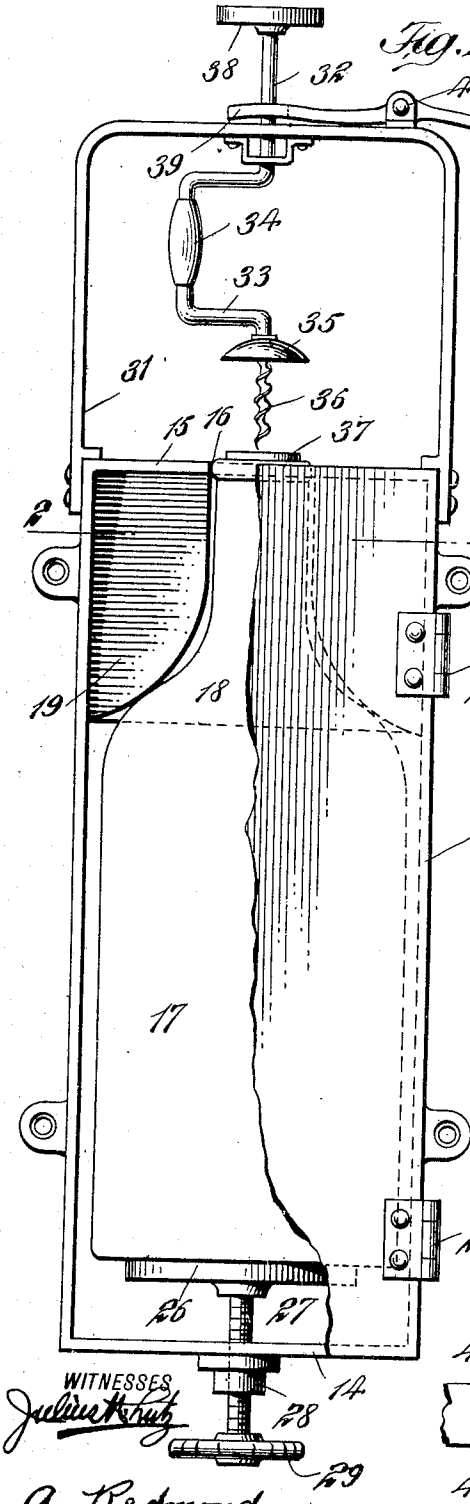


Fig. 2.

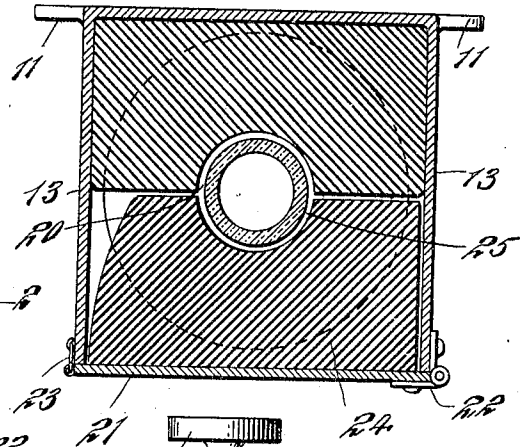


Fig. 3.

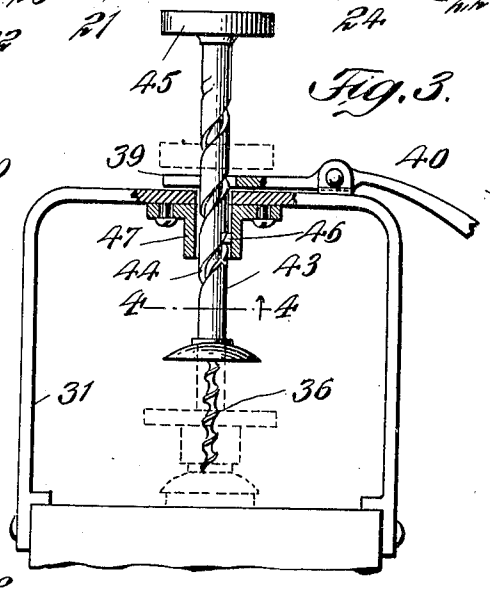
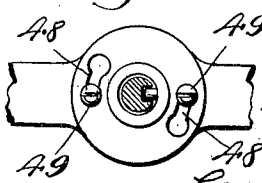


Fig. 4.



WITNESSES

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BOTTLE-SUPPORT AND STOPPER-PULLER.

No. 926,112. Specification of Letters Patent. Patented June 29, 1909.

Application filed April 11, 1908. Serial No. 426,548.

To all whom it may concern:

Be it known that I, MARY A. GOULD, a citizen of the United States, and resident of New York, borough of Brooklyn, county of Kings, State of New York, have invented certain new and useful Improvements in Bottle-Supports and Stopper-Pullers, of which the following is a full, clear, and exact description.

This invention relates more particularly to a device for holding the bottle while the cork or stopper is being removed.

The primary object of the invention is to provide simple and efficient means which is adapted to properly hold a bottle within the same so that the means for removing the stopper or cork may be readily operated to properly engage the cork or stopper without holding the bottle in the hand as is usually necessary with the ordinary corkscrew, thus allowing one hand to be entirely free to permit the insertion of another cork or stopper after the original one has been removed in case this is desirable, and to avoid the liability of spilling the contents of the bottle while removing the cork as often occurs under the method ordinarily employed.

A further object of the invention is to provide simple and efficient means which may be rigidly attached to a support and which is adjustable to permit various sizes of bottles to be held thereby; and to provide simple means for extracting the cork or stopper from the bottle.

With these and other objects in view, the invention will be hereinafter more particularly described with reference to the accompanying drawings, which form a part of this specification, and will then be pointed out in the claims at the end of the description.

In the drawings, Figure 1, is a front view, partly broken away, showing one form of apparatus or device embodying my invention. Fig. 2 is a sectional plan view taken on a line 2—2 of Fig. 1. Fig. 3 is a fragmentary section, partly in elevation, showing another means which may be employed for removing the stopper; and Fig. 4 is a sectional plan view taken on a line 4—4 of Fig. 3 looking in the direction of the arrows.

The casing or holder 10 may be rectangular in cross-section or of any other suitable form and is provided at the rear thereof with lugs or projections 11 by which the device may be attached to a suitable support. The casing has the back 12 and the sides 13, and is provided with a base 14 and a top 15, and in said top is arranged the opening 16 for the bottle through which the latter may project. As shown the bottle 17 is of the usual type having its neck 18 adapted to rest against a rubber or other block or device 19 which is secured within the casing between the sides 13 and the back 12 and at the upper part thereof against which the bottle neck is adapted to rest, the said block or cushioning member 19 being provided with a recess 20 to conform to the shape of the bottle. At the front of the casing is arranged a door 21, and this door may be hinged to one of the sides 13, as at 22, and may be fastened at its free end, when in a closed position by means of one or more hooks 23 or in any other suitable way. The door 21 is provided with a block, cushioning device or member 24 forming an opposed member to the block 19, and this block may have a recess 25 opposite the recess 20 of the member 19, so that said members 24 and 19 will serve as a holding and retaining means for the upper part or neck of the bottle.

To make the device suitable for different sizes of bottles, I arrange in the casing 14 a movable device or follower 26 on which the bottle is adapted to rest. This follower 26 may be connected to a screw 27 on the end of which the follower is arranged so as to move therewith, but which permits the screw to rotate independently, and said screw engages a threaded opening in the part 28 of the bottom of the casing and is provided at its lower end with a hand-wheel 29 or other operating device by which the follower 26 may be made to force the bottle upward against the members 19 and 24 of the holding device so as to properly and rigidly support the same within the casing.

The stopper may be removed from the bottle in any desired way. As shown the casing has a yoke or bracket 31 at the upper part thereof and rotatably held in said bracket is a stem or spindle 32. This spindle is bent as at 33 to form a crank and has a handle 34 by which the spindle or shank 32 may be rotated. A collar 35 is secured to the shank and below the collar is a corkscrew 36 or other device which is adapted to engage the stopper or cork 37 of the bottle as the shank or spindle 32 is rotated. As the screw 36 enters the cork the spindle 32 moves downwardly until the said screw has entered the cork the desired distance, and

until the collar or other device 38 rests upon or engages the end 39 of the lever 40. This lever 40 is pivoted at 41 to the bracket 31 and has the hand portion 42 by which the lever may be operated. It will be seen that when the collar 38 engages the free end 39 of the lever and the handle 42 is forced downward the spindle 32 will be forced upward together with the corkscrew 36 and thereby remove the cork from the bottle mouth. By this means the bottle does not have to be held in the hand as by the usual method when using a corkscrew and the hand is entirely free to insert another cork in the bottle mouth, and this method further serves to prevent the liability of the contents of the bottle being spilled while removing the cork.

In Figs. 3 and 4 a somewhat different means is shown for operating the corkscrew 36. A spindle 43 is provided with a spiral groove 44 and has a handle or operating device 45 at its upper end, and said spiral groove is adapted to be engaged by a pin or projection 46 carried by a sleeve 47. This sleeve 47 is provided with an opening through which the spindle 43 passes and has slots 48 concentric with the center of said sleeve and these slots are adapted to be engaged by the screws 49. As will be seen when the sleeve 47 is in the position shown in Figs. 3 and 4 said sleeve will be held to the bracket 31 and by forcing the spindle 43 downward by pressing on the handle or device 45 the said spindle and the corkscrew 46 will be rotated so as to enter the stopper or cork in the bottle. When the screw 36 has entered the stopper the desired distance, the sleeve 47 is released from the screws 49 so as to be free of the bracket 31 and said sleeve will move downward along the spindle 43, and in this position the handle 45 will engage the end 39 of the lever 40 so that by operating said lever the spindle, together with the corkscrew, will be raised and will remove the cork or stopper from the bottle as already described.

From the foregoing it will be seen that simple and efficient means is provided whereby various sizes of bottles may be entirely closed and positively held without holding the same in the hand, and that when so held the cork or stopper may be readily removed; and to provide simple and efficient means for engaging the cork or stopper so that the same may be quickly removed from the bottle.

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

1. A device of the character described comprising a box-like casing provided with an opening in its top wall to receive a bottle neck, a cushioning block secured in said casing and provided with a semi-circular recess, the lower extremity of which is flared to receive the neck and shoulders of a bottle, a hinged door for said casing, a cushioning block carried thereby and also provided with a semi-circular flared recess and registering with the recess in the first mentioned block, a follower arranged to support a bottle, a threaded rod for adjusting said follower, a bracket supported by said casing, and extracting mechanism supported by said bracket.

2. A device of the character described comprising a box-like casing provided with an opening in its top wall to receive a bottle neck, a cushioning block secured in said casing and provided with a recess, the lower extremity of which is flared to receive the neck and shoulders of a bottle, a door for said casing, a cushioning block carried thereby and also provided with a recess adapted to register with the recess in the first mentioned block, a follower arranged to support a bottle, means for adjusting said follower, a bracket supported by said casing, and extracting mechanism supported by said bracket.

This specification signed and witnessed this 28th day of March A. D. 1908.

MARY A. GOULD.

Witnesses:
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