(No Model.)

L. C. STOLL.

CORKSCREW.

No. 593,699. Patented Nov. 16, 1897.

Fig. 1

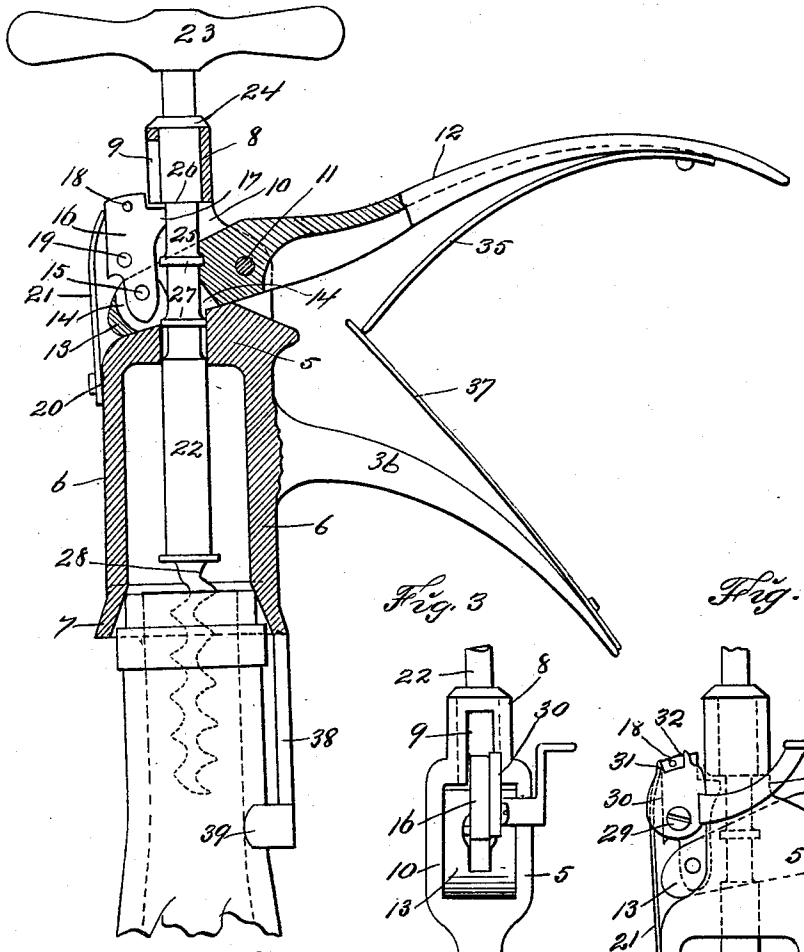


Fig. 3

Fig. 4

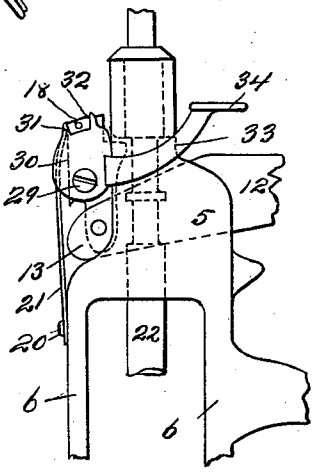
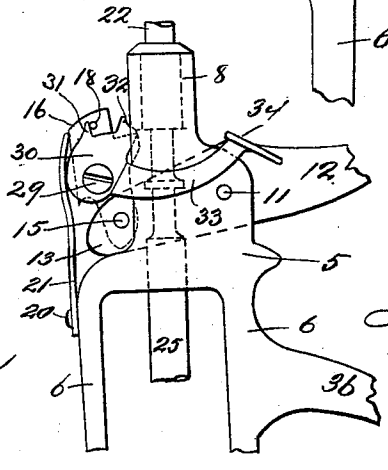


Fig. 2



WITNESSES.

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CORKSCREW.

SPECIFICATION forming part of Letters Patent No. 593,699, dated November 16, 1897.

Application filed July 10, 1897. Serial No. 644,138. (No model.)

To all whom it may concern:

Be it known that I, LOUIS C. STOLL, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Corkscrews, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to corkscrews; and it consists of an improvement in devices of the kind described and claimed by me in an application filed in the United States Patent Office April 30, 1897, Serial No. 634,523; and the object thereof is to provide an improved device by means of which the cork or stopper of a bottle or similar vessel may be quickly and easily withdrawn therefrom, a further object being to provide a device of this class in which the corkscrew proper is mounted in and revoluble in a casing which supports a collar or head which is adapted to rest on the end of the neck of a bottle or other vessel, said casing being provided with devices by means of which the screw may be removed, and with it the stopper, said device being operated by means of a lever pivotally connected with said casing, which forms a part of said device.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a sectional side view of my improved corkscrew and showing the neck of a bottle and the method of the operation of the device; Fig. 2, a side view of a part of said device; Fig. 3, a back view thereof; and Fig. 4, a view similar to Fig. 2, showing the parts in a different position.

In the drawings forming part of this specification the separate parts of my improvement are designated by the same numerals of reference in each of the views, and in the practice of my invention I provide a frame comprising a head 5, having downwardly-directed side arms 6, at the lower end of which is a flaring ring or collar 7, and the head 5 is provided with an upwardly-directed tubular extension 8, in the back of which is a vertical slot 9.

The head 5 is provided with a transverse opening 10, and pivoted therein at 11 is a lever 12, which is provided with a head 13, in which is formed a vertical opening 14, and pivoted in the outer end of the opening 14, as shown at 15, is a dog 16, which is provided at its upper end with a forwardly-directed lug or projection 17 and centrally of the side thereof and at the upper end with a pin 18, and in the lower portion of said dog 11, above the head 13 of the lever 12, is a hole or opening 19, and secured to the head 5 at 20 is a spring 21, which bears on the upper end of said dog.

Passing vertically through the head 5 and through the opening 14 in the head of the lever 12 and through the tubular extension 8 of the head 5 is a shaft 22, the upper end of which is provided with a handle 23, and said shaft is provided near its upper end with a collar 24, and said shaft is reduced in size at 25, so as to form an annular shoulder 26, and at the reduced portion 25 of said shaft below said annular shoulder 26 are a plurality of collars or annular flanges 27, and secured to the lower end of the shaft 22 is an ordinary corkscrew 28.

Pivotally connected with the dog 16 by means of a screw 29, which passes through the hole or opening 19, is a cam-plate 30, which is provided at its outer upper corner with an upwardly-directed projection 31, which operates in connection with the pin 18, and said cam-plate is also provided at its inner upper corner with another upwardly and forwardly directed projection 32, and secured to or formed on the lower inner portion of said cam-plate is an outwardly and forwardly directed arm 33, provided at its end with a thumb-piece 34.

Secured to the outer end of the lever 12 and the lower side thereof is a backwardly and downwardly directed spring 35, and formed on or secured to one of the downwardly-directed extensions or arms 6 of the head 5 is a downwardly-directed arm 36, to the upper side of which is secured a backwardly and upwardly directed spring 37, against which the spring 35 bears, and said arm 36 and said lever 12 constitute handles for the device, by means of which it is operated, as hereinafter described.

The lug or projection 17 on the dog 16 operates in connection with the annular shoul-

der 26 and the collars 27 on the shaft 22, and the operation will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof.

The collar or ring 7 is provided at one side with a downwardly-directed arm 38, on the lower end of which is a circular or segmental clamp or jaw 39, which is adapted to press against the neck of the bottle, and whenever it is desired to withdraw the cork from a bottle the upper end of the neck is inserted into the collar or ring 7, as shown in Fig. 1, and the arm 33 is depressed, so as to disconnect the dog 16 from the shaft 22, this operation being accomplished by means of the cam-plate 30, the upwardly-directed projection 32 of which bears on the head 5 adjacent to the slot 9 in the tubular extension 8, so as to force said dog backwardly on its pivotal support at 15. The handle 23 is then manipulated in the usual manner to force the screw 28 into the cork, and after this is done the arm 33 is released and the lever 12 and the arm 36 are grasped, and the lever 12 is depressed, and the dog 16 engages with the shaft 22 below the annular shoulder 26 and forces said shaft upwardly. The lever 12 is then released, and the outer end thereof is forced upwardly by the springs 35 and 37, and the dog 16 engages with the upper annular collar 27, and said lever 12 is again depressed and the said shaft 22 is again forced upwardly, and this operation may be repeated three times, if desired, or until the dog 16 engages with the lower collar 27 on the shaft 22, and it will be understood that in this operation the cork is withdrawn from the bottle. The dog 16 is forced backwardly, so as to be disengaged from the shaft 22, by pressing the lever 33 backwardly or by depressing the free end thereof, and this lever and said dog are shown in two different positions in Figs. 2 and 4, and when said dog is in the position shown in Fig. 2 the shaft 22 is free to slide through the head 15, and when said dog is in the position shown in Fig. 4 the shaft will be locked thereby in the head 5 and cannot move therethrough.

My improvement is simple in construction and operation and is perfectly adapted to accomplish the result for which it is intended.

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

1. In a corkscrew of the character described, a casing, a vertically-movable shaft mounted therein and provided with a plurality of shoulders, a corkscrew secured to the lower end thereof, an operating-lever mounted on said casing, a dog pivotally mounted on the outer end of said lever and provided with a lug adapted to engage said shoulders on the corkscrew-shaft, a cam-plate pivotally connected with said dog, an arm secured to said cam-plate and provided at the outer end with a thumb-piece, a spring secured to said casing and adapted to normally hold said dog in engagement with one of said collars, said cam-plate being provided with a lug adapted to engage a projection on said casing when the arm connected therewith is depressed and a pin on said dog adapted to limit the movement of said cam-plate whereby the dog is held out of engagement with the shoulders formed on said shaft, substantially as and for the purpose described.

2. A corkscrew comprising a frame composed of a head, and provided with downwardly-directed side arms or extensions at the lower end of which is a ring or collar, said frame being also provided with an upwardly-directed tubular extension, and the head thereof being provided with a transverse opening, a lever the head of which is pivoted in said transverse opening, and provided with a vertical passage, a shaft passing vertically through the head of the frame and through the head of said lever, and said tubular extension of the frame, a spring-operated dog pivoted in the head of said lever and provided at its upper end with forwardly-directed lug or projection, said shaft being also provided with annular collars or projections and at the lower end thereof with a corkscrew, and said frame being also provided with an arm which is formed thereon, and extends in the same direction as said lever, and said arm and said lever being provided with springs and means for operating said dog, consisting of a cam-plate pivotally connected therewith, and provided at its upper end with two projections between which passes a pin secured to said dog, and said cam-plate being also provided with an arm which projects transversely of the head of the frame, and in line with said lever, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 8th day of July, 1897.

LOUIS C. STOLL.

Witnesses:
C. GERST,
A. C. VAN BLARCOM.