R. L. WILSON.

CORK EXTRACTOR.

APPLICATION FILED JAN. 27, 1912.

1,030,698. Patented June 25, 1912.

Fig. 1.

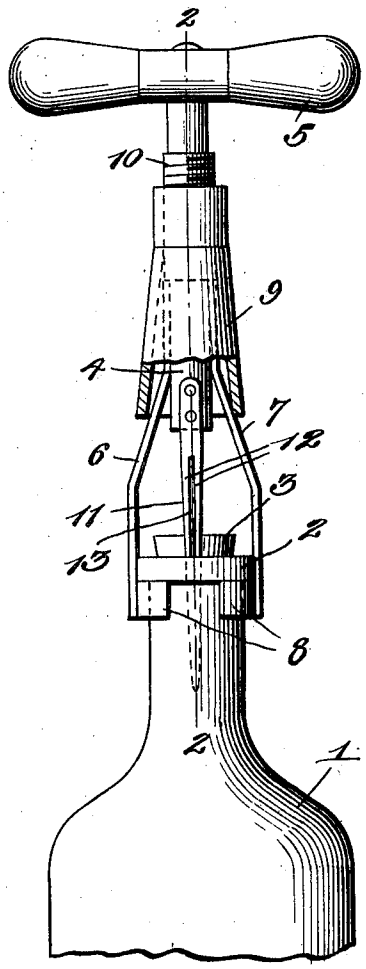


Fig. 2.

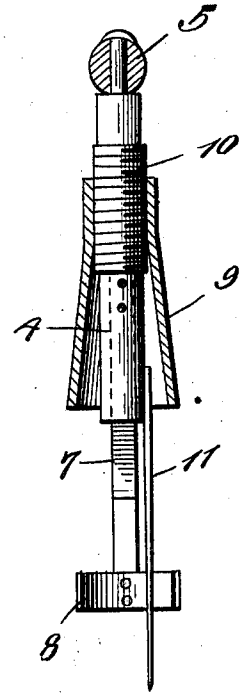


Fig. 3.

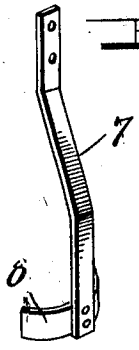
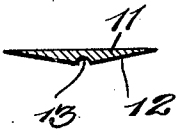


Fig. 4.



Witnesses

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CORK-EXTRACTOR.

1,030,698. Specification of Letters Patent. Patented June 25, 1912.

Application filed January 27, 1912. Serial No. 673,781.

To all whom it may concern:

Be it known that I, ROBERT L. WILSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Cork-Extractors, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to new and useful improvements in stopper extractors, and my object is to provide a device which may be readily applied to a bottle and which will positively remove the stopper therefrom without damaging the latter.

A further object of the invention resides in providing a device having a prong or blade adapted to be inserted between the stopper and the inner periphery of the neck of the bottle, which blade may be used for the purpose of loosening the stopper in the bottle and at the same time for removing the same, and a still further object resides in providing a device with clamping means for attachment to the neck of the bottle.

Still another object of the invention resides in providing an improved blade having means therein whereby air may enter between said blade and the inner periphery of the neck of the bottle so as to permit said blade to be readily turned in the neck of the bottle to loosen and remove the stopper therein.

A still further object resides in providing a device which is extremely simple in construction, inexpensive to manufacture, and one which will be very efficient and useful in operation.

With these and other objects in view, my invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawing forming a part of this application, Figure 1 is a side elevation partly in section showing my device applied to the neck of a bottle. Fig. 2 is a vertical section therethrough as seen on line 2—2, Fig. 1, with parts shown in elevation. Fig. 3 is a perspective view of one of the clamping members removed from the device, and, Fig. 4 is an enlarged section through the blade.

In carrying out my invention, I shall refer to the drawing in which similar reference characters designate corresponding parts throughout the several views and in which—

1 indicates a bottle of the usual or any preferred type having the ridge or annular flange 2 at the upper edge of the neck thereon and having a cork stopper or closure 3 inserted in said neck. In order to remove a stopper of this character from the bottle, I have provided my improved extractor which comprises a shank or body member 4, to the upper end of which is secured a handle member 5, forming a T head thereon, and to the shank adjacent the lower portion thereof, are secured by means of rivets or the like, the ends of a pair of spring arms 6 and 7. These arms are bent somewhat outwardly and have the opposite or free ends thereof engaged with the arcuate clamping members or jaws 8 which are adapted to be engaged with the neck of the bottle 1 below the upper ridge or flange 2 thereon. The arms 6 and 7 being spring members, will, of course, tend to draw the clamping jaws or members 8 around the neck of the bottle, but in order to clamp the same tightly thereabout, I provide a sleeve or collar portion 9 which flares outwardly from its upper to its lower portion, said sleeve or collar being internally threaded at its upper portion to engage a threaded portion 10 on the shank 4, and it will be seen that as said collar is turned on the shank to move downwardly with respect thereto, the same will force the outspread arms 6 and 7 inwardly to tightly clamp the members 8 around the neck of said bottle.

Secured to the lower portion of the shank 4, is an elongated prong or blade 11, said blade being riveted or removably secured to the shank in any desired manner in order to project some distance below said shank, and the outer face of said blade is beveled outwardly from the longitudinal center of the same to the outer side edges thereof, as shown at 12. This blade is adapted to be inserted between the cork closure 3 and the inner periphery of the neck of the bottle and then turned therein, at the same time drawing outwardly upon the shank to loosen and remove the closure, and in order to permit an easy movement of the blade in its effective position, and at the same time permit the action to be effective,

said blade is provided on the outer face of the longitudinal center thereof with a longitudinal groove or channel 13.

In operation, the blade 11 is first inserted between the cork and the inner periphery of the neck and the collar or sleeve 9 threaded on the threaded portion 10 of the shank to tightly clamp the portions 8 about the neck of the bottle, whereupon the operator turns upon the handle 5, at the same time drawing outwardly thereupon. The air space or groove 13 in the outer face of the blade 11 will permit of the blade being readily turned and drawn outwardly, and upon the outward drawing of the device, the cork 3 will be drawn therewith without being damaged, whatsoever. While the members 8 are tightly clamped about the neck of the bottle, it will be appreciated that the same are slightly movable vertically thereon, but in view of the ridge or flange 2 at the upper edge of the neck, said clamping members may not be entirely removed from the bottle until such time as the sleeve 9 has been raised from its effective position. As stated, as the device is turned and drawn outwardly, the cork 3 will be drawn therewith, and if not totally withdrawn from the neck, it will be appreciated that the device may be removed and said cork totally removed by hand.

From the foregoing, it will be seen that I have provided an improved cork extractor which is extremely simple and durable in construction, inexpensive to manufacture, and one which will be very efficient and useful in operation. It will further be seen that the device is one which will not damage the cork, whatsoever, in removing the same, and is one which may be applied to bottles having corks of various sizes.

While I have particularly described the elements most well adapted to perform the functions set forth, it is obvious and well understood that various changes in form, proportion and in the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the principles of the invention.

Having thus described my invention, what I claim is:—

1. A stopper extractor, comprising a shank having a threaded portion thereon and provided with a handle member at one end thereof, a blade secured to the shank adjacent the opposite end thereof and depending therefrom, a pair of spring arms also secured to the shank and depending therefrom, said spring arms being provided with clamping members at the free ends thereof, and a collar threaded in engagement with the threaded portion of said shank and adapted to coöperate with said springs and force the clamping members thereon into engagement with the outer periphery of a bottle neck.

2. A stopper extractor comprising a shank threaded for a portion of its length, spring arms secured to the lower portion of said shank at diametrically opposite points thereon, said arms having portions thereof flared outwardly and provided with clamping members at the free ends thereof, a blade secured to the lower end of the shank and extended therebelow, a collar disposed in threaded engagement with the threaded portion of the shank and having the lower portion thereof flared outwardly and adapted to contact with the flared portions of the spring arms to cause the clamping members thereon to engage an object, and a handle member carried on the upper portion of said shank.

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

ROBERT L. WILSON.

Witnesses:
JOHN B. ROBERTSON,
FRANK H. WOOLF.