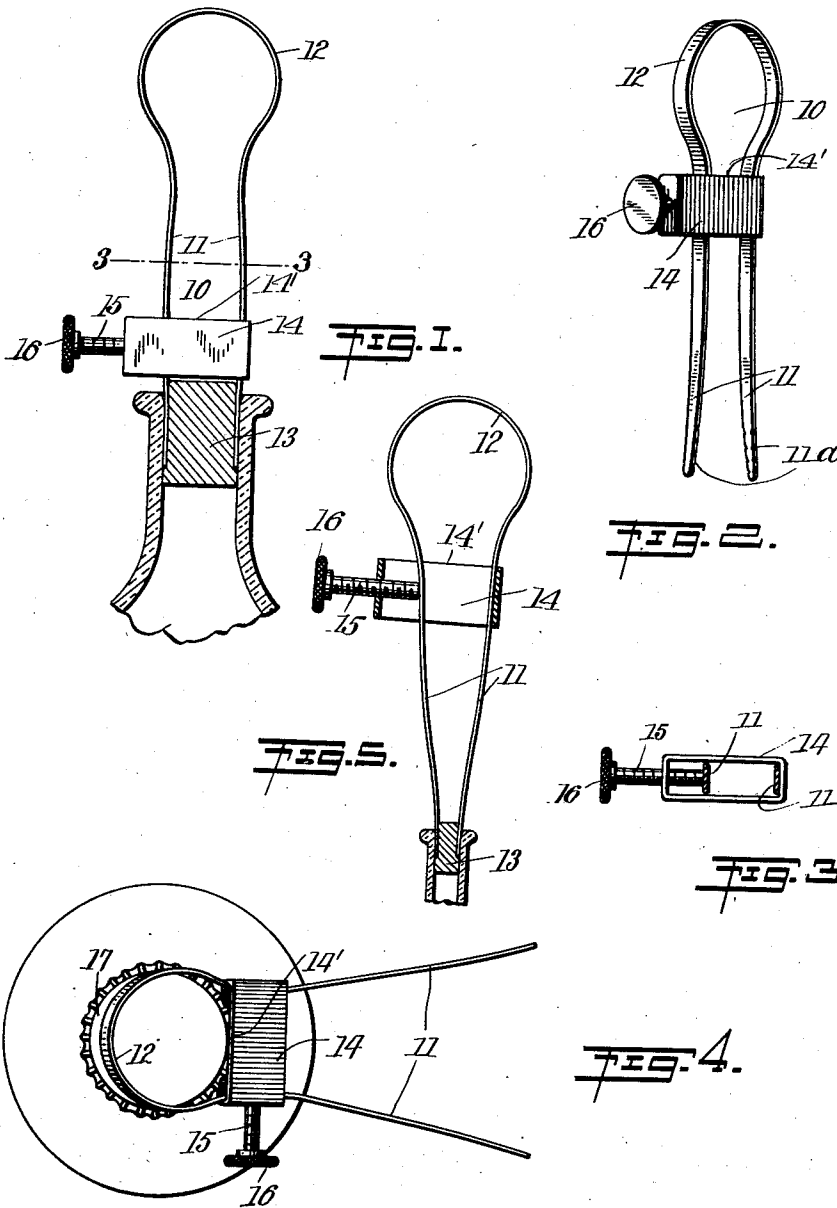


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CORK PULLER.
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ANDREW FINSEL, OF ELIZABETH, NEW JERSEY.

CORK-PULLER.

1,061,904.

Specification of Letters Patent.

Patented May 13, 1913.

Application filed October 1, 1912. - Serial No. 722,297.

To all whom it may concern:

Be it known that I, ANDREW FINSEL, a citizen of the United States, and a resident of Elizabeth, in the county of Union and State of New Jersey, have invented a new and Improved Cork-Puller, of which the following is a full, clear, and exact description.

This invention relates to cork pullers and has particular reference to a convenient tool for extracting corks of any size or construction in a manner which will insure positive delivery of the corks intact so that they may be re-used, if desired.

A further object of the invention is to provide a tool of the character indicated which may be used for removing crimped caps from bottles.

The foregoing and other objects of the invention will hereinafter be more fully described and claimed and illustrated in the drawings accompanying this specification in which like characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a side elevation of my improvement shown in position for pulling a comparatively large cork; Fig. 2 is a perspective view of the tool alone; Fig. 3 is a horizontal section substantially on the line 3—3 of Fig. 1, the clamp appearing in plan; Fig. 4 is a view of the tool shown in use as a means for removing a crimped cap; and Fig. 5 is a side elevation, partly in section, showing the tool in the act of removing a small cork.

Referring particularly to the drawings, I show the device in its preferred embodiment as comprising a bifurcated gripping member 10 including a pair of fingers 11 connected by a loop or bow 12. The gripping member 10 is made preferably of steel or some other suitable comparatively light yet strong spring material. The fingers 11, therefore, will be not only sufficiently thin, adapting them to be projected into the neck of the bottle so as to embrace the cork 13, as indicated in Figs. 1 and 5, but will at the same time be sufficiently strong and stiff to permit pressure to be applied to them on opposite sides for the purpose of first turning or twisting the cork within the bottle so as to loosen or start it on its outward movement, and secondly, to positively withdraw it from such bottle. As indicated at 11^a, the fingers adjacent their ends may be

notched or serrated so as to increase the grip or frictional contact upon the cork. Such features, however, will not interfere with the insertion of the gripping fingers into embracing position. The action above indicated will not damage the cork for the reason that the body of the cork is not punctured or damaged in any way, leaving it in good condition for re-use, if desired, in the same or some other bottle.

In connection with the gripper 10 above described, I employ as a means for applying pressure to the opposite sides of the fingers 11, especially when operating upon tight corks, a clamp comprising a sleeve 14 adapted to surround the fingers 11 between the loop and the ends of the fingers, and cooperating with said sleeve is a screw 15 having any suitable form of head 16 whereby it may be rotated to cause the inner end of the screw to bear upon one of the fingers 11 whereby the two fingers are caused to approach each other within the sleeve 14. The fingers 11 have sufficient rigidity to enable them to stand sufficient pressure thus applied to the clamp to enable the fingers 11 to be firmly set upon a cork, as it is desirable when starting deep or tight corks, so that it will be unnecessary to apply pressure to the fingers in any other way, leaving the operator free to simply apply easy force of the fingers and thumb to the sleeve as it lies in position adjacent the end of the bottle neck, or in contact with the end of the cork if it projects beyond the neck of the bottle. In other words, the sleeve and screw set as indicated in the drawings will constitute the entire device into a substantially rigid construction in its grip upon the cork, of any size, and by turning or twisting the sleeve around the axis of the cork, the cork will be loosened and freed for easy and safe withdrawal. As applied to small corks especially, the ordinary cork screw and other means ordinarily applied to corks will so distort or damage the corks that they are rendered useless, even though they be withdrawn by such ordinary means.

The loop 12 may be of any suitable form and constitutes a fulcrum member for the removal of a common crimped cap 17, the tool being applied in such a way as to cause one of the parallel upper edges 14' of the sleeve 14 to engage beneath the crimped rim of the cap on the side opposite the point of application of the loop. With the device

applied as indicated, the operator grasping the tool in one hand while holding the bottle in the other, will lift upon the fingers 11, thereby easily and reliably removing the cap from the bottle. The screw 15, for the purpose of removing crimped caps, may preferably be run out toward the outer position of adjustment so that the loop and sleeve will occupy the proper position in respect to the crimped cap.

The device above described may be made of any suitable size and materials, and the exact form thereof may be varied from that indicated without departing from the spirit of the invention.

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

In a cork puller, the combination of a

gripper comprising a pair of spaced fingers 20 and a bow connecting the same, and a clamp cooperating with said gripper, said clamp comprising a sleeve embracing said fingers and movable longitudinally thereof and having parallel upper edges for cooperation 25 with said bow when the sleeve is adjacent the bow and a screw operating through one end of the sleeve and cooperating with one of said fingers when the sleeve is remote from the bow, substantially as set forth. 30

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ANDREW FINSEL.

Witnesses:

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MAY HEPBURN.