

H. NIES.  
CORK EXTRACTOR.  
APPLICATION FILED FEB. 6, 1912.

1,042,952.

Patented Oct. 29, 1912.

Fig. 1.

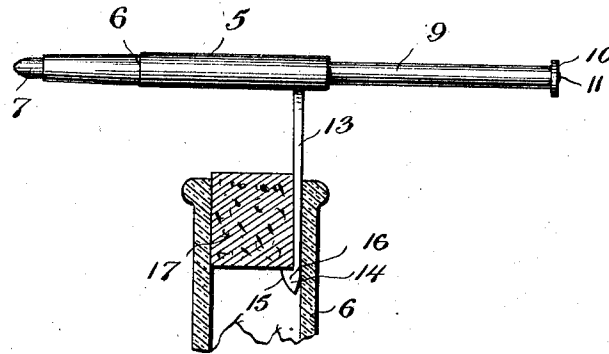


Fig. 2.

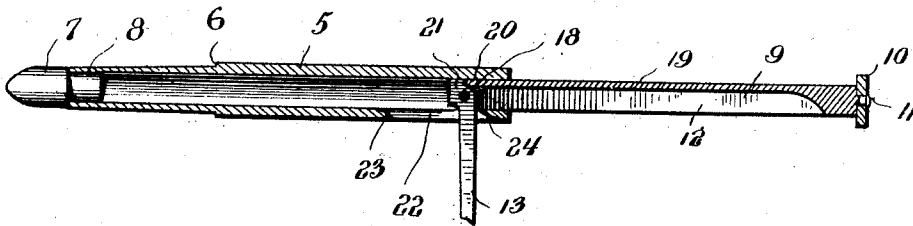


Fig. 3.

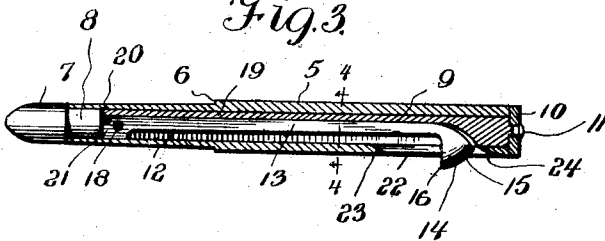
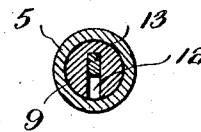


Fig. 4.



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# UNITED STATES PATENT OFFICE.

HENRY NIES, OF MOUNT RAINIER, MARYLAND, ASSIGNOR OF ONE-HALF TO JOHN B. RYON, OF WASHINGTON, DISTRICT OF COLUMBIA.

## CORK-EXTRACTOR.

1,042,952.

Specification of Letters Patent.

Patented Oct. 29, 1912.

Application filed February 6, 1912. Serial No. 675,699.

*To all whom it may concern:*

Be it known that I, HENRY NIES, a citizen of the United States, residing at Mount Rainier, in the county of Prince Georges and State of Maryland, have invented new and useful Improvements in Cork-Extractors, of which the following is a specification.

The invention relates to cork extractors and more particularly to the class of pocket cork extractors of foldable type.

The primary object of the invention is the provision of a cork extractor in which the extracting hook or blade is automatically folded and telescoped within a shell when not in use, and is ejected therefrom when ready for use on reciprocatingly actuating a core slidably fitted in said shell, thus affording a handy and useful device that can be conveniently carried in the pocket or on the person.

Another object of the invention is the provision of a cork extractor of this character in which a cork when inserted within the neck of a bottle may be readily and easily removed therefrom without damage to the said cork resulting from the pulling action thereon by the extractor.

A further object of the invention is the provision of a cork extractor of this character in which the shell thereof has the appearance of an explosive cartridge and is adapted to receive the foldable extracting hook when not in use, the extracting hook being readily ejected from the shell into operative position for the pulling of a cork from a bottle.

A still further object of the invention is the provision of a cork extractor of the folding type which is simple in construction, strong, readily and easily folded or brought to operative position for the extracting of a cork, and that is reliable and efficient in its purpose, and inexpensive in manufacture.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts as will be hereinafter more fully described illustrated in the accompanying drawings, and pointed out in the claim hereunto appended.

In the drawings: Figure 1 is a fragmentary, vertical, sectional view of the neck of a bottle with the cork therein, showing the extractor in position for pulling the cork from the bottle neck. Fig. 2 is a fragmentary, vertical, longitudinal sectional view on an en-

larged scale of the extractor when ready for use. Fig. 3 is a similar view showing the extractor folded or in contracted position. Fig. 4 is a sectional view on the line 4—4 of Fig. 3.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawing by numerals the cork extractor comprises a tubular shell 5, the outer surface of which is tapered toward one end thereof and is formed with a shoulder 6 thus giving thereto an outward appearance similar to an explosive cartridge, the inner bore of the shell 5 being of uniform diameter throughout its length and is closed at one end by means of a lead bullet 7 formed with a contracted inner end 8 inserted within one end of the shell, the said bullet being held fast therein in any suitable manner. Slidably engaged in the bore in the shell 5 and inserted through the opposite open end thereof is a reciprocatingly movable core 9 the outer end of which has fixed thereto a finger disk 10 by means of a central rivet 11 which is also designed to have the appearance of a cartridge cap, the disk 10 being adapted to close the open end of the said shell 5 when the core 9 has been pushed wholly within the same.

Formed in one side of the core 9 longitudinal thereof is a channel or slot 12, the same extending throughout a major portion of the said core and opens through the inner end thereof. Adapted to be swung into and out of the slot 12 is a cork extracting element comprising a shank 13 formed at its outer end with a hook 14 in alinement with the shank, the hook being provided with a rounded edge 15 and beveled as at 16 to provide a knife edge whereby the insertion of the shank 13 between the body of the cork 17 and the inner face of the neck 6 of a bottle may be effectively and quickly accomplished. The opposite end of the shank 13 is connected between the walls of the slot 12 by means of a pivot 18 whereby the said shank 13 may be swung into and out of the said slot 12. The bed or bottom wall 19 of the slot 12 at the open end thereof terminates short of the side walls of the same so as to form an abutment shoulder 20 with the contacts and off-sets extension 21 of the shank 13 at the inner pivoted end thereof so that when the said shank is swung at right

angles to the core 9 it will be held fast against swinging movement in one direction.

Provided in the shell 5 is an elongated opening 22 through which is ejected the shank 13 of the extracting element, the end walls of the said opening 22 being beveled at 23 and 24 respectively so as to act upon the shank 13 on movement of the core 9 inwardly within the shell 5 to swing the shank 13 within the slot 12 for concealing it in said shell and on pulling outwardly upon the core to eject the said shank from the shell and moving it at right angles to the core for use in pulling a cork from a bottle.

When pulling outwardly upon the core 9 the rounded edge 15 of the hook 14 will ride over the beveled end 24 of the opening 22 in the shell 5 thereby initially ejecting the shank 13 from the shell and during continued outward movement of the core 9 the shank will be swung at right angles thereto so that the extractor will be ready for use in pulling the cork from a bottle.

From the foregoing description, taken in connection with the accompanying draw-

ings, it is thought that the construction and operation of the invention will be clearly understood, and therefore, a more extended explanation has been omitted.

What is claimed is:—

A cork extractor comprising a shell provided with an opening adjacent one end thereof, a core of substantially the same length of said shell reciprocatingly movable therein, said core provided with a channel, a cork extracting hook pivoted to the inner end of said core, said hook adapted to lie within the said channel when in a retracted position, the free end thereof adapted to engage the outer end of said slot in the shell when said core is pulled outwardly from the shell for guiding said hook to ejected position.

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

HENRY NIES.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."