

H. KEARNEY.  
COMBINED CORK AND CORK PULLER,  
APPLICATION FILED MAR. 8, 1909.

950,751.

Patented Mar. 1, 1910.

Fig. 1.

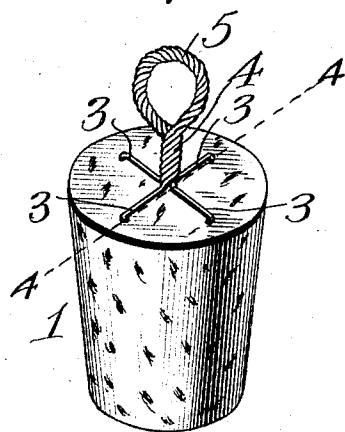


Fig. 4.

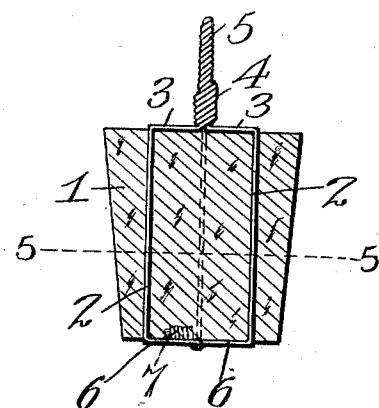


Fig. 2.

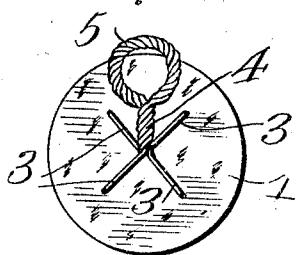


Fig. 3.

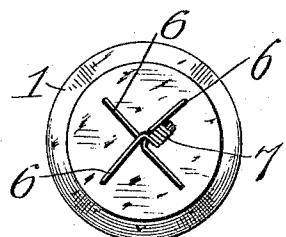
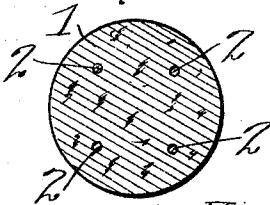


Fig. 5.



Henry Kearney Inventor

Witnesses

E. L. Mueller  
Geo. L. McCallum,

By E. C. Vrooman,  
his Attorney.

# UNITED STATES PATENT OFFICE.

HENRY KEARNEY, OF CARBONDALE, PENNSYLVANIA.

## COMBINED CORK AND CORK-PULLER.

950,751.

Specification of Letters Patent. Patented Mar. 1, 1910.

Application filed March 8, 1909. Serial No. 482,138.

To all whom it may concern:

Be it known that I, HENRY KEARNEY, a citizen of the United States, residing at Carbondale, in the county of Lackawanna and 5 State of Pennsylvania, have invented certain new and useful Improvements in Combined Corks and Cork-Pullers, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to stopper extractors, and has specially in view a device of the character stated which may be carried by the stopper and so fastened thereto whereby it will offer no resistance whatever 15 to the stopper being placed in sealing position within the outlet of a bottle, yet being at all times in position where it may be readily used to remove the stopper from the bottle neck.

20 With the above and other objects in view, the invention contemplates the employment of a plurality of strands of resilient material, such as wire which are passed through a bottle stopper at different points and have 25 one of their ends fastened together on the bottom of the stopper, their other ends being twisted together and formed into a convenient hand or finger hold, so as to facilitate the use of the same to remove the stopper 30 from its sealing position.

In carrying out the objects of the invention generally stated above it will, of course, be readily understood that the same is susceptible of changes in details and structural 35 arrangements, but one preferred and practical embodiment thereof is shown in the accompanying drawings, wherein—

Figure 1 is a perspective view of a cork showing the improved extractor applied thereto. Fig. 2 is a top plan view of the same showing the extractor with its handle bent parallel with the top surface of the stopper. Fig. 3 is a bottom plan view, showing a convenient manner of fastening the 45 lower ends of the extractor together. Fig. 4 is a central vertical sectional view taken on the line 4—4, Fig. 1. Fig. 5 is a transverse sectional view taken on the line 5—5, Fig. 4.

Referring to the accompanying drawings 50 by numerals, 1 designates a stopper which may be of cork or other suitable resilient material and which, for convenience of illustration, has been shown as of a tapering formation. The extractor is designed to 55 form a permanent part of the stopper and may be formed of four or more strands of

wire or equivalent material being of sufficient length to permit of their major portions 2 being passed longitudinally through the stopper in regularly spaced-apart positions, their upper end portions which project beyond the top of the stopper being bent over onto the said top surface and radiate toward the center thereof as indicated at 3, at which point they are bunched and twisted 60 together and extended vertically as indicated at 4, and the end of the twisted vertically extending portion is curved over onto itself to form an eye 5, thereby providing an efficient finger or hand hold to facilitate the 65 removal of the stopper from its sealing position, as will be obvious.

The lower ends of the major portion, or body of each strand projects below the bottom of the stopper and the same are bent 70 over onto the bottom surface thereof and radiate toward the center thereof where they meet, as indicated at 6, and have their ends bunched and twisted together as at 7, and then bent over onto the surface of the 75 bottom of the stopper, and may be forced into the material thereof so as to be practically flush with said surface. It will be understood that the operation of twisting each 80 end of the strands together, will cause the 85 radiating portions to "bite" into the stopper, and cause said radiating portions to be practically flush with the top and bottom surface thereof.

In using the improved extractor, the handle portion thereof is bent over onto the top of the stopper as indicated in Fig. 2, so that the same will not interfere with the packing of the same, but when it is desired to remove the stopper from its sealing position, 90 the handle may be readily straightened.

It will be seen from the foregoing that the present invention is one that may be formed from cheap material, and when fastened in the preferred manner described to 100 the stopper, it will have a positive engagement at at least four points thereof, and as each strand is securely fastened together at both ends, it will be seen that there is no danger of the extractor being pulled from 105 the stopper.

As has been before stated, the extractor may be formed of cheap wire strands, or equivalent material and is designed to form an integral part thereof, and be furnished 110 with the stoppers. Owing to the nature of the material of which it is formed, the ex-

tractor will not materially add to the cost of the stopper, and it will greatly facilitate the removal of the stopper and also contribute to the life of the same, as will be obvious.

What I claim as my invention is:—

In combination with a bottle stopper an extractor therefor, said extractor comprising a plurality of strands of wire spirally 10 twisted together at their central portions to provide an elongated shank having an eye therewith, said wire being bent at right angles with the shank, said wire being further bent vertically with the intersections of the

angular portions and inserted through the 15 stopper at four different points and having their projecting terminals twisted against and embedded in the bottom of the stopper, and said angular portions extending radially across the top of the stopper and contacting therewith.

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

HENRY KEARNEY.

Witnesses:

CHARLES H. HORTON,  
MATHEW F. KEARNEY.