No. 820,022. PATENTED MAY 8, 1906.

W. H. SMITH.

CORK EXTRACTOR.

APPLICATION FILED MAR. 5, 1906.

FIG 2

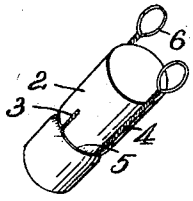


FIG 3

FIG 4

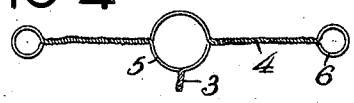


FIG 5.

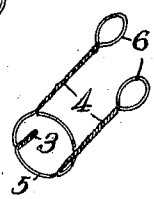


FIG 1

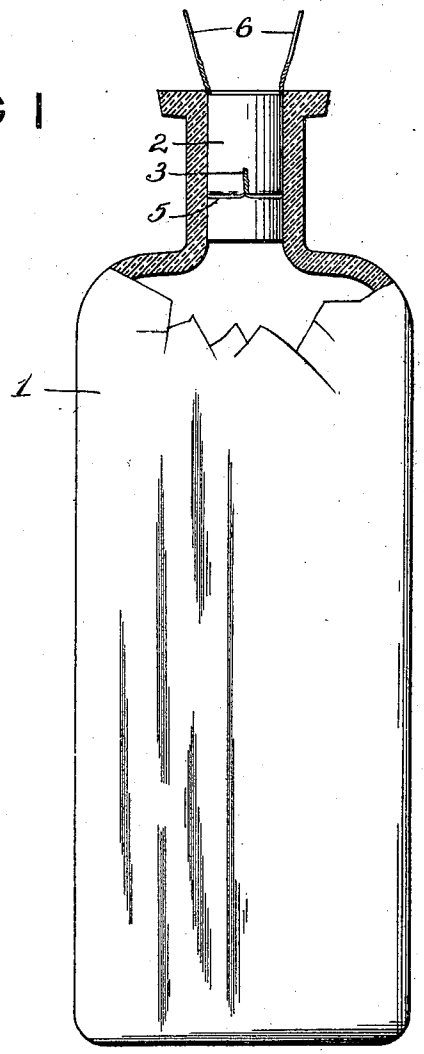
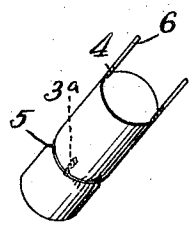


FIG 6



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UNITED STATES PATENT OFFICE.

WILLIAM HOWARD SMITH, OF MORTON, PENNSYLVANIA.

CORK-EXTRACTOR.

No. 820,022. Specification of Letters Patent. Patented May 8, 1906.

Application filed March 5, 1906. Serial No. 304,406.

To all whom it may concern:

Be it known that I, WILLIAM HOWARD SMITH, a citizen of the United States, residing at Morton, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Cork-Extractors, of which the following is a specification.

My invention relates to an improved means for extracting corks from bottles; and it consists in the constructions, combinations, and arrangements herein described and claimed.

An object of my invention is to provide a simple and inexpensive extractor which will be positively secured against slipping or loosening on the cork and which will be held out of contact with the bottle contents.

A further object of my invention is to provide an extractor provided with a pair of independent attachments secured at diametrically opposite points on the cork's periphery, whereby a rocking motion can be given to the cork for loosening it in the bottle.

In the accompanying drawings, forming a part of this application, and in which similar reference-symbols indicate corresponding parts in the several views, Figure 1 is a side elevation, partly in section, illustrating a bottle with one embodiment of my invention applied to the cork therein. Fig. 2 is a perspective view showing the cork removed from the bottle. Fig. 3 shows a doubled length of wire for forming the extractor, the two ends of the wire being twisted together adjacent the medial portion of its length to form an endless band. Fig. 4 shows the endless band after the end portions thereof have been twisted to provide a medial loop for engaging the periphery of the cork, said twisted portions constituting independent attachments having end loops. Fig. 5 is a perspective view of my improved extractor in its final shape as secured to a cork, and Fig. 6 is a perspective view illustrating a slight modification in which the spur formed by the twisted ends of the wire is thrust into the cork.

Referring especially to Figs. 1, 2, and 3 of the drawings, 1 indicates any usual form of bottle or other receptacle, closed by a stopper or cork 2.

My extractor preferably comprises a doubled length of wire, having its two ends 3 twisted together to form an endless band, as shown especially in Fig. 3. The end portions 4 of the band are then twisted to provide a medial loop 5 for engaging the periphery of a cork, said twisted portions constituting independent attachments at diametrically opposite portions of said medial loop for drawing the cork. As shown especially in Figs. 2 and 4, the attachments 4 are provided at their free ends with eyes 6 to provide convenient means for engaging them in operation.

In the use of my invention the attachments 4, loop 5, and twisted ends 3 are sunk into the periphery of the cork, so as not to interfere with the fit of the latter into a bottle, and it will be noted that the twisted ends 3 constitute a spur, which acts to prevent accidental twisting of the loop about the cork.

From the above description it will be seen that my invention provides a construction having a loop positively secured against loosening on the cork and carrying independent attachments at diametrically opposite portions of the cork's periphery, whereby a rocking motion can be given to the cork for loosening it preliminary to its withdrawal. This constitutes a very advantageous construction in bottles which are frequently corked and uncorked, such as bottles containing medicines or toilet preparations. It will further be seen that my extractor is so positioned as to avoid any danger of contact with the bottle contents.

Fig. 6 illustrates a slight modification, in which the spur 3^a, formed by the twisted ends of the doubled wire, is thrust into the cork instead of being pressed into the periphery thereof, as in the above-described preferred construction. In this modified form the spur 3^a is preferably thrust into the cork at a slight inclination to the top portion of the latter, thereby very satisfactorily securing the loop 5 from shifting under extended use.

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

1. In combination with a cork, an extractor comprising a loop engaging the periphery of said cork, a spur on said loop for securing it against accidental shifting on the cork, and a pair of attachments extending from diametrically opposite portions of said loop, substantially as described.

2. In combination with a cork, an extractor comprising a double length of wire having its end portions twisted to provide a loop therebetween for engaging the periph-

ery of the cork, said twisted portions extending from diametrically opposite portions of the loop and constituting attachments for drawing the cork, substantially as described.

3. In combination with a cork, an extractor comprising a double length of wire with its two ends twisted together to constitute a securing-spur, the end portions of said band being twisted to provide a medial loop and two end eyes, substantially as described.

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

WILLIAM HOWARD SMITH.

Witnesses:

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MAY J. SMITH.