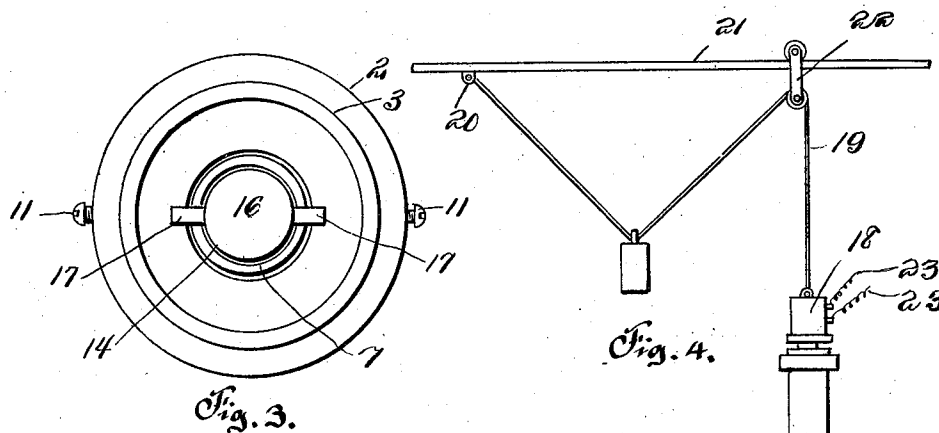
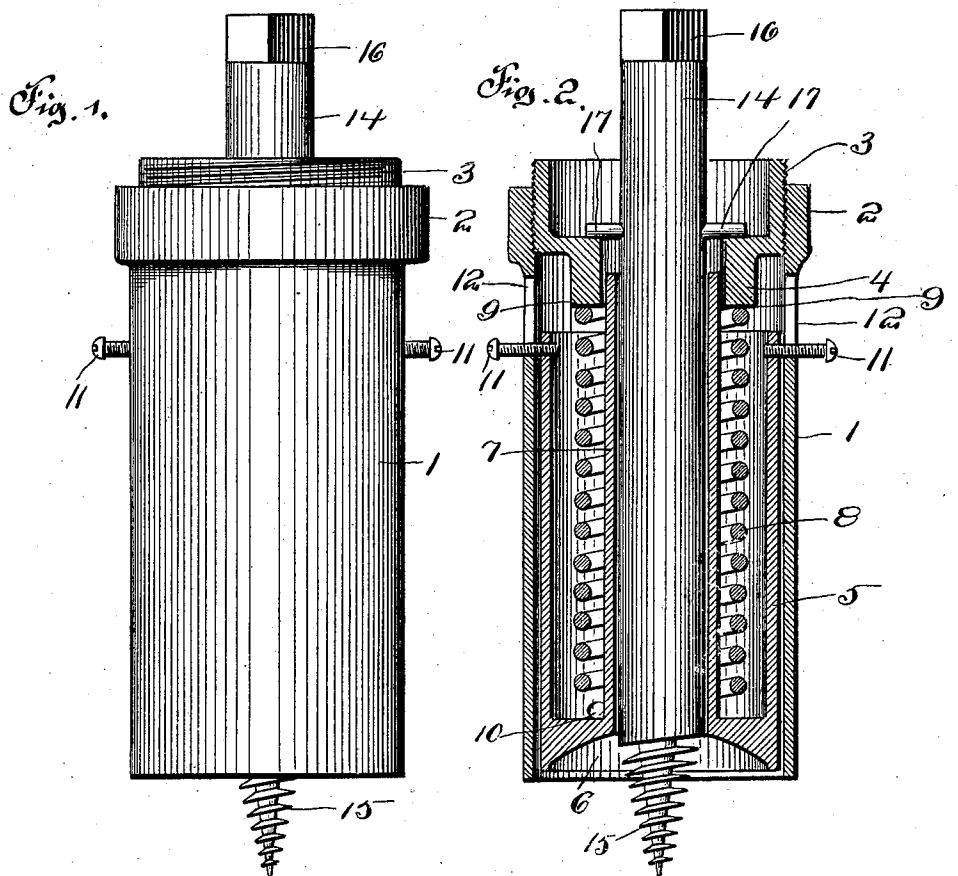


No. 844,396.

PATENTED FEB. 19, 1907.

J. PFAB.
BUNG AND CORK EXTRACTOR.
APPLICATION FILED MAY 2, 1906.



Witnesses:
C. Westermann.

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UNITED STATES PATENT OFFICE.

JOHN PFAB, OF PITTSBURG, PENNSYLVANIA.

BUNG AND CORK EXTRACTOR.

No. 844,396.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed May 2, 1906. Serial No. 314,843.

To all whom it may concern:

Be it known that I, JOHN PFAB, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Bung and Cork Extractors, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in bung and cork extractors; and the invention has for its object to provide a simple and inexpensive device by which closures, such as bungs or stoppers, can be easily and quickly extracted from a barrel or receptacle. To this end I have devised an extractor adapted to shield a person when drawing a bung or stopper, thus preventing the confined gas within a barrel or receptacle from blowing out the bung or stopper when partially drawn and injuring the person performing the operation.

With these and many other objects in view, which will more readily appear as the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts, to be hereinafter more fully described and claimed, and, referring to the drawings accompanying this application, like numerals of reference designate corresponding parts throughout the several views, in which—

Figure 1 is a side elevation of my improved extractor. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a plan, and Fig. 4 is a side elevation, of a movable motor used in connection with my improved extractor.

To put my invention into practice, I construct my improved extractor of a cylindrical shell 1, having an enlarged interiorly-screw-threaded end 2 to receive an exteriorly-threaded cap 3, having a depending tubular portion 4.

In the cylindrical shell 1 is mounted a spring-retaining cup 5, the bottom of said cup being provided with a concavity or annular recess 6, while centrally of said cup is formed a tubular portion 7. In the cup 5 is mounted a spiral spring 8, the one end of which is attached to the depending tubular portion 4 of the cap 3, as at 9, while the opposite end of the spring is attached to the bottom of the cup 5, as at 10. The upper edges of the cup are provided with two diametrically-opposed screws 11 11, which pro-

trude through vertically-disposed slots 12 12, formed in the sides of the shell 1.

In the central tubular portion 7 of the cup 5 is mounted a shaft 14, carrying a screw 15 at its lower end, while the upper end is provided with a rectangular shank 16. The shaft 14 is provided with two outwardly-extending pins or lugs 17 17, which are adapted to rest upon the depending tubular portion 4 of the cap 3.

In connection with the device just described I employ a conventional form of movable motor 18, said motor being suspended from a weighted cable 19, which is fixed, as at 20, to an overhead track 21, the cable also being suspended from a traveler 22, movably mounted upon the track 21. The motor 18 is of a conventional form and is adapted to be operated from a suitable source of electrical energy, which is in circuit with the wires 23 23 of said motor, and in practice the track 21, carrying the motor 18, is mounted overhead, whereby the motor will be normally maintained in an out-of-the-way place, at the same time permit of it being easily obtained when it is desired to extract a bung or cork from a barrel or bottle.

In operation the motor 18 is placed over the rectangular shank 16 of the shaft 14 to rotate the same and drive the screw 15 into the bung or cork to be extracted. As the screw 16 enters the bung or cork the shell 1, together with the cup 5, is moved into engagement with the top of the barrel or bottle by which the bung or cork is carried. This is accomplished through the medium of the pins or lugs 17 17, and during this operation the coiled spring 8 is under tension, and as it is attached to the cap 3 and the cup 5 it will have a tendency to gradually draw the bung or cork out of the barrel or bottle, while the shell 1, together with the concavity 6 of the cup 5, will prevent the bung or cork from being blown from the barrel or bottle after it has been once loosened by the extractor. The upper edges of the central tubular portion 7 of the cup 5 engaging the pins or lugs 17 17 tends to elevate the same during the operation of rotating the shaft 14.

My improved bung-extractor is particularly adapted for use in large saloons, breweries, and distilleries where a large number of bungs are extracted from barrels, and the whole intention of the invention is to simply facilitate drawing a bung, at the same time

protecting the operator from injury by the bung being suddenly discharged or blown from a barrel.

What I claim, and desire to secure by Letters Patent, is—

1. A bung-extractor comprising a shell open at both ends, and having slots in opposite sides near its upper end, a retaining-cup mounted for movement within the shell and having pins projecting through said slots, said retaining-cup having a concave bottom and having a central tubular portion or sleeve, a cap threaded into the upper end of the shell, a shaft extending through said tubular portion or sleeve and having a screw on its lower end, transversely-extending pins carried by said shaft and resting on said cap, and a spring surrounding the tubular portion or sleeve of said retaining-cup and connected at its ends to the base of said cup and to the cap respectively.

2. In a bung-extractor, a shell, a retaining-cup therein provided with a central tubular portion or sleeve, pins carried by said cup and projecting through slots provided therefor in the shell, a cap mounted in one end of

the shell, a shaft extending through the cap and tubular portion or sleeve and provided with a screw, means carried by the shaft and engaging said cap to support the shaft within the tubular portion or sleeve, and means for operating said shaft.

3. In a bung-extractor, a shell open at both ends, a retaining-cup within the shell having limited vertical movement therein, means for limiting the movement of said cup, a cap secured to one end of said shell, a tubular portion or sleeve carried by the retaining-cup, a spring surrounding said tubular portion or sleeve and connected at its ends to the cap and base of the retaining-cup respectively, a shaft extending through the tubular portion or sleeve and provided on one end with a screw, and means for supporting said shaft in said tubular portion or sleeve.

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

JOHN PFAB.

Witnesses:

K. H. BUTLER,
A. M. WILSON.