

No. 860,138.

PATENTED JULY 16, 1907.

M. E. JOHNSON.
CORKSCREW.

APPLICATION FILED JAN. 2, 1907.

Fig. 1.

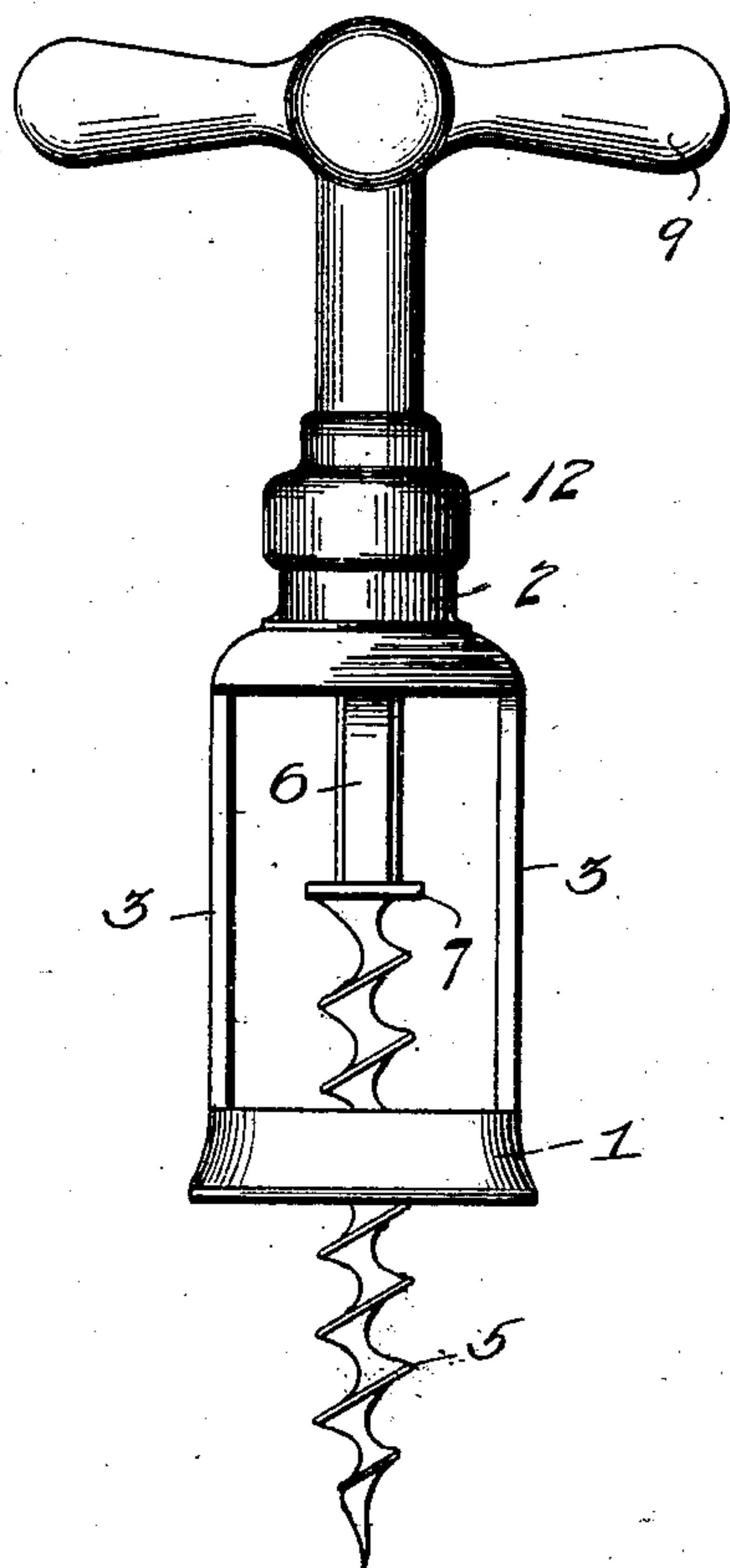


Fig. 2.

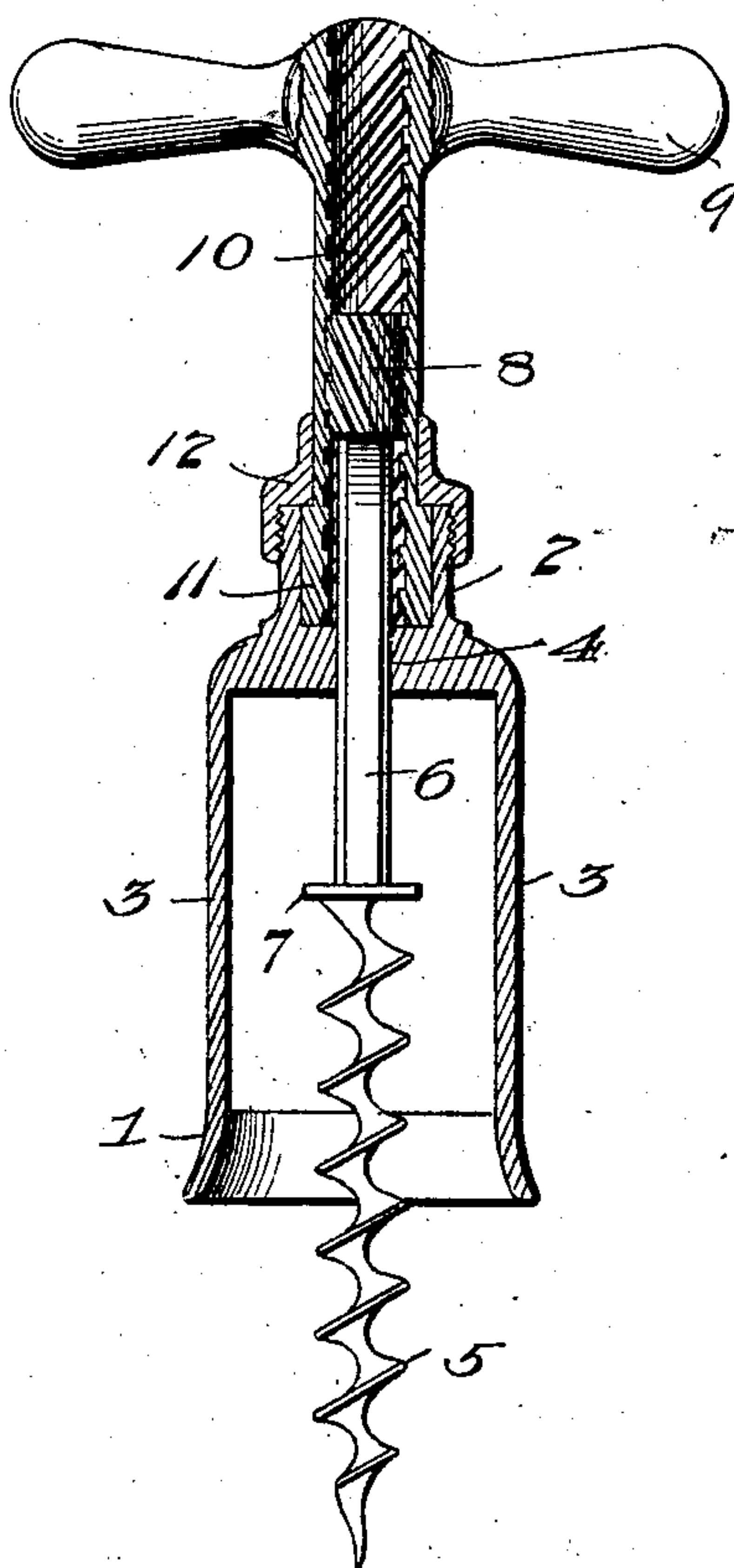
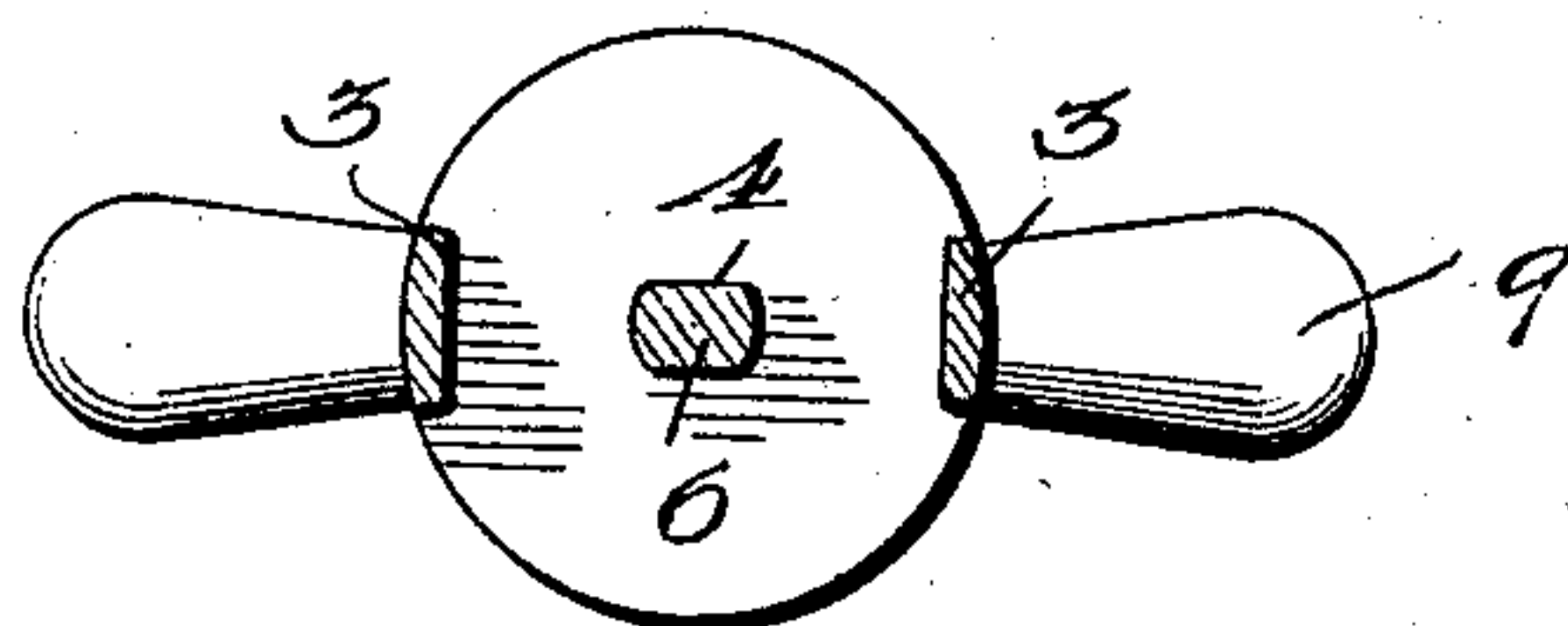


Fig. 3.



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CORKSCREW.

No. 860,138.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MOSES E. JOHNSON, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented
5 a certain new and useful Corkscrew, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to cork screws or stopper extractors and the object of the invention is to provide a
10 simple, reliable and thoroughly practical and effective article of the class referred to, by means of which a cork may be withdrawn from a bottle with perfect ease by the aid of a powerful screw operated by means of a suitable rotary handle, the cork being extracted without
15 turning the cork in the neck of the bottle, the said cork being drawn straight outward from the neck of the bottle without liability of tearing or breaking up the material of which the cork or stopper is formed.

A further object of the invention is to provide a device of the character referred to which is adapted to
20 stoppers of any size, it being necessary only to enter the cork screw as far as may be desired, according to the size of the stopper, and then rotate the handle which effects a withdrawal of the stopper.

With the above and other objects in view, the invention consists in the novel construction, combination and arrangement of parts as herein fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a side
30 elevation of a cork screw embodying the present invention. Fig. 2 is a longitudinal section through the same. Fig. 3 is a cross section through the same.

The cork screw contemplated in this invention comprises three main parts or elements, viz; a cap or head
35 piece which forms the frame of the article, a cork engaging screw, and a cork extracting screw provided with an operating handle.

The cap or head embodies an annular seat 1 which rests upon the neck of the bottle and provides the necessary bearing for the article, a sleeve or collar 2 located
40 at a distance above the seat 1, and arms or side pieces 3 which connect the parts 1 and 2 and form a rigid frame for the support of the operative mechanism. The base of the sleeve or collar 2 is closed with the exception
45 of a flat sided opening 4 through which the shank of the cork screw slides without turning as hereinafter described.

The cork engaging screw 5, or in other words the screw which enters the cork, is provided with a flattened shank 6 which corresponds with the shape of the
50 opening 4 adapting said shank to slide freely through said opening while preventing the shank 6 and screw 5 from turning. Where the screw 5 ends and the flattened shank 6 begins, there is an enlarged shoulder 7

which is adapted to come in contact with the outer
end of the cork to assist the screw 5 in obtaining a firm hold on the cork. The end of the shank 6 is provided with a threaded portion 8 which is preferably somewhat larger than the shank so as to work easily through the internally threaded cork extracting screw to be
60 described.

The device is operated by means of a rotary handle 9 rigidly connected to the cork extracting screw 10 which is in the form of a long nut internally threaded from end to end to allow the threaded portion 8 of the
65 shank 6 to work back and forth therein as the handle is turned for the purpose of drawing the cork from the neck of the bottle. The end of the screw or nut 10 is somewhat enlarged as shown at 11 and such enlarged part fits within the sleeve 2 and is held loosely confined therein by a coupling or union 12, which bears against the shoulder formed by the upper end of the enlargement 11 and screws upon and around the sleeve or collar 2. It will thus be seen that the nut or extracting screw 10 is incapable of longitudinal movement;
75 therefore by turning said screw by means of the handle 9, the screw 5 is slid upward or downward according to the direction in which the handle is turned.

Under the preferred embodiment of the invention the screw 5 is a right hand screw while the extracting
80 screw 10 is a left hand screw. In operation the handle is first turned to the right which forces the screw 5 outward beyond the annular seat 1. When the screw 5 is forced outward as far as it will go, the whole device is turned to the right in entering the screw 5 into the
85 stopper. As soon as the seat 1 bears against the neck of the bottle, the handle is turned to the left, whereupon the extracting screw 10 is brought into play and acting upon the threaded part 8 of the shank of the cork engaging screw, the latter is drawn upward or outward
90 away from the bottle neck bringing with it the cork or stopper, the latter being drawn straight outward and extracted without turning the same. In drawing small corks, it is unnecessary to drive the screw 5 all the way through the cork until the shoulder 7 bears
95 against the same; it is only necessary to drive the screw 5 into the cork far enough to obtain a firm hold thereon, when by turning the handle to the left, the seat 1 is forced against the bottle neck and the cork extracted. By the arrangement described it is impossible
100 for the screw 5 to turn out of the cork.

I claim:—

1. A cork screw comprising a head embodying a cylindrical sleeve, a cork-engaging screw embodying a shank having a sliding non-rotatable engagement with the head, a rotary handle provided with a cork-extracting screw engaging a threaded portion of said shank and having an enlarged end portion journaled in said sleeve, and a sleeve coupling fitting around the cork-extracting screw engaging
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the enlarged end portion thereof and detachably connected with the head to permit the handle and cork-extracting screw to be separated from the head.

5 2. A cork screw comprising a head; a cork-engaging screw having a sliding non-rotatable engagement with the head; a rotary cork-extracting screw engaging a part of the cork-engaging screw and having an enlarged end portion journaled in the head; and a sleeve coupling fitting around the cork-extracting screw, engaging the enlarged

end portion thereof, and detachably connected with the 10 head to permit the cork-extracting screw to be separated from the head.

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

MOSES E. JOHNSON.

Witnesses:

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