C. T. MADSEN.

CORK EXTRACTOR.

APPLICATION FILED MAY 1, 1918.

1,340,551. **Patented May 18, 1920.**

Fig. 1.

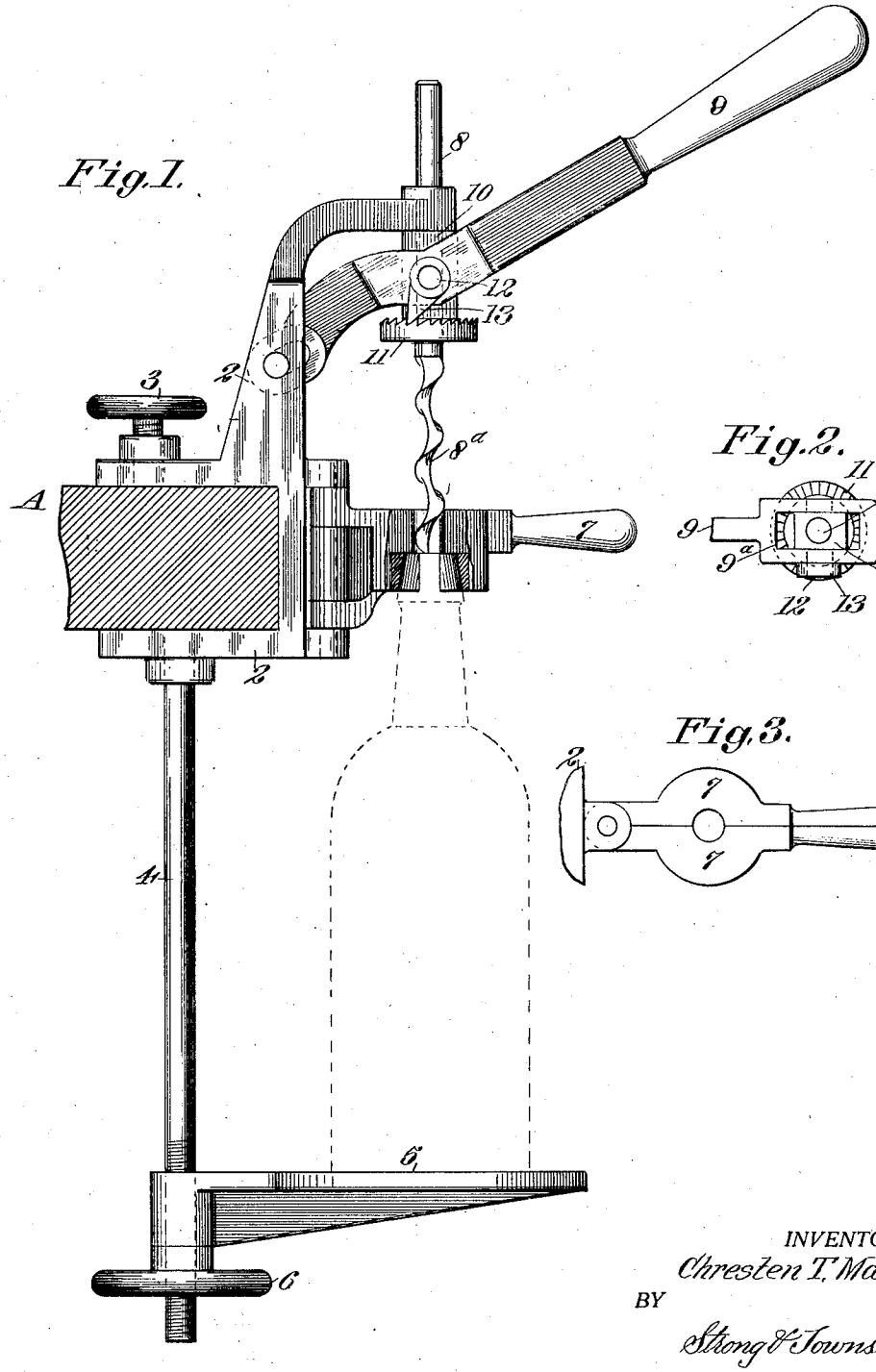


Fig. 2.

Fig. 3.

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CHRESTEN TORBEN MADSEN, OF OAKLAND, CALIFORNIA.

CORK-EXTRACTOR.

1,340,551. Specification of Letters Patent. Patented May 18, 1920.

Application filed May 1, 1918. Serial No. 231,799.

To all whom it may concern:

Be it known that I, CHRESTEN T. MADSEN, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented new and useful Improvements in Cork-Extractors, of which the following is a specification.

This invention relates to an improvement in devices for pulling corks from bottles in which the corks have been inserted.

It consists of an adjustable support for the bottle, a support for the device in line above the bottle neck, a guide for the shank of the spiral corkscrew, a lever by which it is reciprocated, and a horizontal ratchet and a pawl carried by the lever to engage the ratchet to prevent its turning when the cork is being drawn.

It also comprises details of construction which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a side elevation and partial section.

Fig. 2 is a fragmentary plan of part of the lever guide and ratchet.

Fig. 3 is a plan view of the bottle clamp.

As shown, A is a table edge or equivalent support for the bracket 2 which may be clamped to the support A by a screw clamp 3. A rod 4 extends down from the lower jaw of the clamp, has its lower end screw-threaded and serves to carry a bottle support 5 which may be adjusted on the rod 4 by a movable nut 6 to suit the length of bottle to be operated on.

To the front of the bracket 2 is hinged or swiveled a horizontal clamp, consisting of two arms 7 having an elastic lining and capable of gripping and holding the neck of the bottle as it stands upon the support 5. The upper end of the bracket 2 is curved to extend in line above the bottle and it serves to guide the shank or stem 8 of the corkscrew 8^a in its reciprocations.

9 is a lever, the inner end of which is fulcrumed to the bracket 2. This lever is slotted at 9^a, in line with the shank 8, and a rectangular guide block 10 is fitted in the slot. Below this block and the lever 9 a horizontal ratchet 11 is secured to the shank 8 and turnable with it and the screw 8^a. Upon the end of the fulcrum pin 12 of the lever is a pawl 13, which prevents the rotation of the ratchet in one direction and allows it to turn freely in the opposite direction. Thus when the lever 9 is forced down, the corkscrew, resting upon the cork, will be advanced and turned to penetrate the cork and when the lever is lifted the pawl 13 will engage the ratchet and the screw will be lifted without turning and will gradually extract the cork by repeated pulls upon it.

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

1. A cork puller including a fixed bracket and a bottle support adjustable to the bracket, a fixed clamp adapted to clasp the bottle neck, a lever fulcrumed to the first named bracket and channeled vertically in line with the bottle, a guide in said channel, a corkscrew stem slidable through said guide, a horizontally revoluble ratchet on the screw stem, and a pawl upon the lever to engage the ratchet.

2. A cork extractor of the character described, including a bracket and a support therefor, a screw-threaded dependent stem and a bottle holding plate adjustable on the stem, a clamp for the bottle neck, a lever fulcrumed to the bracket, a guide slidable in the bracket, a corkscrew, the stem of which is connected with the lever and guide, a horizontally revoluble toothed ratchet upon the corkscrew stem, and a pawl engaging the ratchet when the lever is moved.

3. A cork puller comprising a cork screw, a shank to which said screw is secured, said shank being vertically movable and turnable in the bracket, a lever adapted to raise and lower the cork screw and shank, a ratchet member secured on the shank and a pawl on the lever engageable with the ratchet and adapted to lock the ratchet, the cork screw and the shank against turning movement when the said parts are lifted.

4. In a cork puller of the class described including a fixed bracket and an adjustable bottle support, a cork extracting element comprising a shank and a cork-screw; said shank being mounted in said bracket for ro-

tatable and vertical movement, a ratchet member on said shank, a lever fulcrumed on said bracket and adapted for forward and backward movement, a pawl on said lever adapted to engage the ratchet and rotate the same by downward pressure on the lever.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

CHRESTEN TORBEN MADSEN.

Witnesses:
W. W. HEALEY,
M. E. EWING.