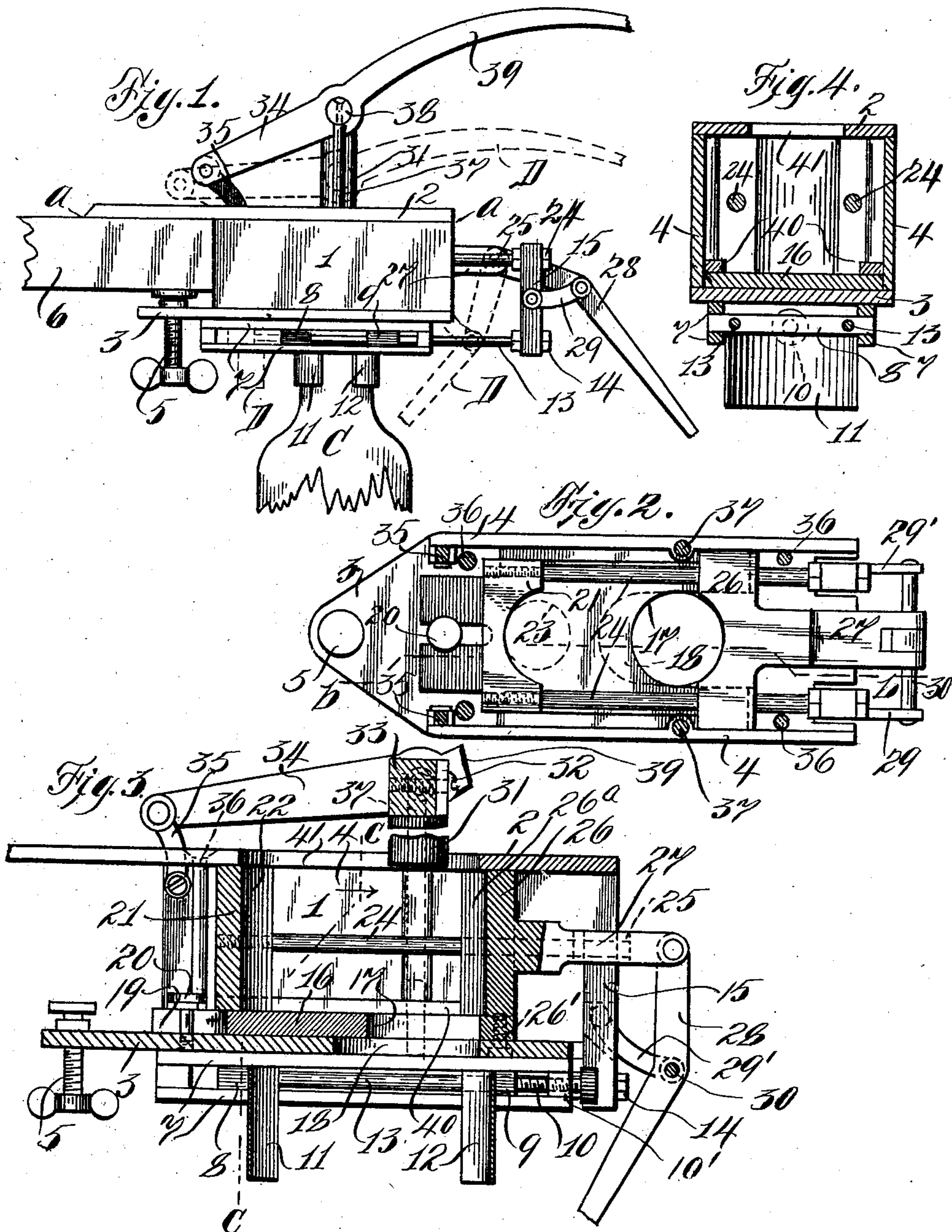


No. 840,100.

PATENTED JAN. 1, 1907.

F. ALEXANDER.
BOTTLE CORKING MACHINE.

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WITNESSES:
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BOTTLE-CORKING MACHINE.

No. 840,100.

Specification of Letters Patent.

Patented Jan. 1, 1907.

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To all whom it may concern:

Be it known that I, FREDERICK ALEXANDER, of New York city, borough of Brooklyn, State of New York, have invented certain
5 new and useful Improvements in Bottle-Corking Machines, of which the following is a specification.

This invention relates to bottle-corking machines or devices, and has for its object to
10 produce a simple and inexpensive device of this character adapted for domestic and other purposes.

To these and other ends, which will hereinafter appear, the invention consists in the
15 novel features of improvement and combination and arrangement of parts, which will be presently described, and finally pointed out in the appended claims.

In the drawings forming part of this specification, Figure 1 illustrates my improved device in side elevation and showing it attached
20 to a support, such as a table or shelf. Fig. 2 is an enlarged top plan view of my device and corresponds to a section on line *a a* in Fig. 1. Fig. 3 is a longitudinal section thereof, the section being taken on a line *b b* in Fig. 2; and
25 Fig. 4 is a cross-section, enlarged, the section being taken on a line *c c* in Fig. 3.

Like characters of reference indicate corresponding parts in the several views.

Referring to the drawings, my device has for a primary support a box-like frame 1, which is composed of a top plate 2, a bottom plate 3, and side plates 4 4. This frame is
35 adapted to be attached to a table, shelf, or other suitable support 6 by a thumb-screw 5. Upon the bottom of the plate 3 I provide guideways 7 7, between which a movable cross-head 8 is adapted to work, and an adjustable stationary cross-head 9 is also provided, the means for adjusting the cross-head 9 being a thumb-screw 10, which is tapped through the separator 10', which is between the guides 7 7. The cross-heads 8 and 9 are
45 provided with clamps 11 and 12, respectively, which are adapted to grasp a bottle C, Fig. 1. Attached to the cross-head 8 are two rods 13, said rods passing freely through the stationary cross-head 9 and having their outer ends
50 attached to a cross-bar 15, the means of attachment being the nuts 14 14. Upon the bottom plate 3 of the frame 1 I mount a slidable plate 16, which is provided with an opening 17, said opening being in alinement with

a larger opening 18, formed in the bottom
55 plate 3. The plate 16 is provided with a slot 19, into which a thumb-screw 20 fits. This screw secures the plate 16 in position, the slot 19 permitting the plate to be moved forward or backward for adjustment to accommodate
60 different sizes of corks. Upon the plate 16 I mount a movable carrier 21, which is provided with a pocket 22, adapted to receive a cork. (See dotted lines 23, Fig. 2.) To the carrier 21 I attach rods 24, which rods pass
65 freely through a stationary head 26, which is secured to the plate 3 by screws 26', the head 26 being provided with a pocket 26^a to assist in retaining a cork in position. To the head 26 a member 27 is secured, (in this instance
70 integral,) which has pivotally secured thereto a lever 28, said lever carrying a cross-bar 30, to which one end of the links 29 29' is pivotally secured, the other ends of said links being attached to the member 15, as shown. 75
In a position substantially over the opening 18 I mount a plunger 31, which is detachably secured by a thumb-screw 32 to a block 33, said block being carried by a lever 34, pivotally connected to the side plates 4 4 by means
80 of links 35. Rods 37 are provided for the purpose of keeping the plunger in a vertical position, the rods being attached at one end thereof to the pintle 38, which is carried by the block 33 and which serves as a journal for
85 the lever 34. The rod 37 is slidably mounted in the side plates 4, as shown. To keep the plate 16 in position, I provide strips 40, placed as shown. An opening 41 is provided in the top plate 2 for the insertion of a cork. 90
In this instance the frame 1 is held together by screws 36.

It is obvious that I may place a plunger of any suitable size upon the block 33 and that
95 by means of the thumb-screw 10 the clamp 12 can be adjusted to suit a larger or smaller cork. The plate 16 can be moved forward or backward and held to suit a larger or smaller cork, it being obvious that the passage in the bottom plate 3, which is formed by the openings 17 and 18, should approximate the size of
100 the cork.

The operation is as follows: By placing a cork upon the plate 16 and in front of the carrier 21 and also holding a bottle up against
105 the bottom plate 3 between the clamps 11 and 12 and pulling out the lever 28 the clamp 11 will be brought forward and clamp

the bottle, at the same time the cork being carried forward and into the opening 18 over the opening in the neck of the bottle. Then by forcing down the lever 34 the plunger will
 5 force the cork into the bottle-neck. A reversal of the operation will accomplish a release of the bottle. The dotted line D, Fig. 1, shows the device before the operation just described, while the full lines illustrate the
 10 grasping and corking operation.

It will be understood that many of the details of construction hereinbefore described may be varied in many particulars without departing from the spirit of my invention.

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

1. A bottle-corking device comprising a frame adapted for attachment to a suitable
 20 support, a clamp carried by said frame adapted to grasp the neck of a bottle and hold same in position, said clamp comprising an adjustable stationary member and a movable member, means for imparting move-
 25 ment to said movable member, means for conveying a cork to a position over the opening in the neck of the bottle held by said clamp, and a plunger carried by said frame adapted to force a cork into the opening in
 30 the neck of a bottle.

2. A bottle-corking device comprising a frame adapted for attachment to a suitable support, a clamp carried by said frame adapted to grasp the neck of a bottle and
 35 hold same in position, said clamp comprising an adjustable stationary member and a movable member, means for imparting movement to said movable member, a slidable carrier carried by said frame adapted to receive a cork and carry same to a position over
 40 the opening in the neck of the bottle held by said clamp, and a plunger carried by said frame adapted to force a cork in the opening into the neck of a bottle.

3. A bottle-corking device comprising a frame adapted for attachment to a suitable support, a clamp carried by said frame adapted to grasp the neck of a bottle and hold same in position, said clamp comprising
 45 an adjustable stationary member and a movable member, a slidable carrier carried by said frame adapted to receive a cork, means whereby said movable clamp member and said slidable carrier may be simultaneously
 50 brought forward, thereby clamping a bottle in position and conveying a cork to a position over the opening in the neck of said bottle simultaneously, and a plunger carried by said frame adapted to force a cork into the
 55 opening in the neck of a bottle held by said clamp.

4. A bottle-corking device comprising a frame adapted for attachment to a suitable support, a clamp carried by said frame
 60 adapted to grasp the neck of a bottle and

hold same in position, said clamp comprising an adjustable stationary member and a movable member, a slidable carrier carried by said frame adapted to receive a cork, means
 70 whereby said movable clamp member and said slidable carrier may be simultaneously brought forward, thereby clamping a bottle in position and conveying a cork to a position over the opening in the neck of said bottle, and a manually-operable plunger carried
 75 by said frame adapted to force a cork into the neck of a bottle held by said clamp.

5. A bottle-corking device comprising a frame adapted for attachment to a suitable support, a clamp carried by said frame adapted
 80 to grasp the neck of a bottle and hold same in position, said clamp comprising an adjustable stationary member and a movable member, a slidable carrier carried by said frame adapted to receive a cork, means
 85 whereby said movable clamp member and said slidable carrier may be simultaneously brought forward, thereby clamping a bottle in position and conveying a cork to a position over the opening in the neck of said bottle, a
 90 lever pivotally mounted upon said frame, a plunger detachably secured to said lever, means for guiding said plunger, and an operating-handle whereby said plunger can be forced downwardly to force a cork into the
 95 opening in the neck of the bottle held by said clamp.

6. A bottle-corking device, comprising a frame composed of a top plate, a bottom plate and side plates, a clamp carried by said
 100 bottom plate and adapted to secure said frame to a suitable support; guides upon the bottom of said bottom plate, an adjustable stationary clamp mounted in said guides, a movable clamp also mounted in said guides,
 105 a lever pivotally mounted upon said frame and adapted to operate said movable clamp whereby a bottle can be held in position by said two clamps, an opening in said bottom plate of said frame in alignment with the
 110 neck of the bottle, an adjustable plate carried by said frame and mounted upon said bottom plate, said adjustable plate being provided with an opening adapted to aline with the opening in said bottom plate where-
 115 by the passage formed by said two alined openings may be increased or diminished by the movement of said adjustable plate, means for placing a cork in said opening, and a manually-operable plunger adapted to force
 120 a cork into the opening in the neck of a bottle held by said clamp.

7. A bottle-corking device comprising a frame composed of a top plate, a bottom plate and side plates, a clamp carried by said
 125 bottom plate and adapted to secure said frame to a suitable support, guides upon the bottom of said bottom plate, an adjustable stationary clamp mounted in said guides, a movable clamp also mounted in said guides,
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a lever pivotally mounted upon said frame and adapted to operate said movable clamp whereby a bottle can be held in position by the said two clamps, an opening in said bottom plate of said frame in alinement with the neck of the bottle, an adjustable plate carried by said frame and mounted upon said bottom plate, said adjustable plate being provided with an opening adapted to aline with the opening in said bottom plate, whereby the passage formed by said two alined openings may be increased or diminished, a movable carrier carried by said frame, an opening in the top plate of said frame whereby a cork can be placed in said carrier, means whereby said carrier can be connected to the movable clamp-operating lever whereby said carrier and said movable clamp can be simultaneously brought forward whereby the cork in said carrier can be deposited in the opening in the bottom plate of said frame simultaneously with the clamping of a bottle, and a manually-operable plunger adapted to force a cork into the opening in the neck of the bottle held by said clamp.

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Witnesses:

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