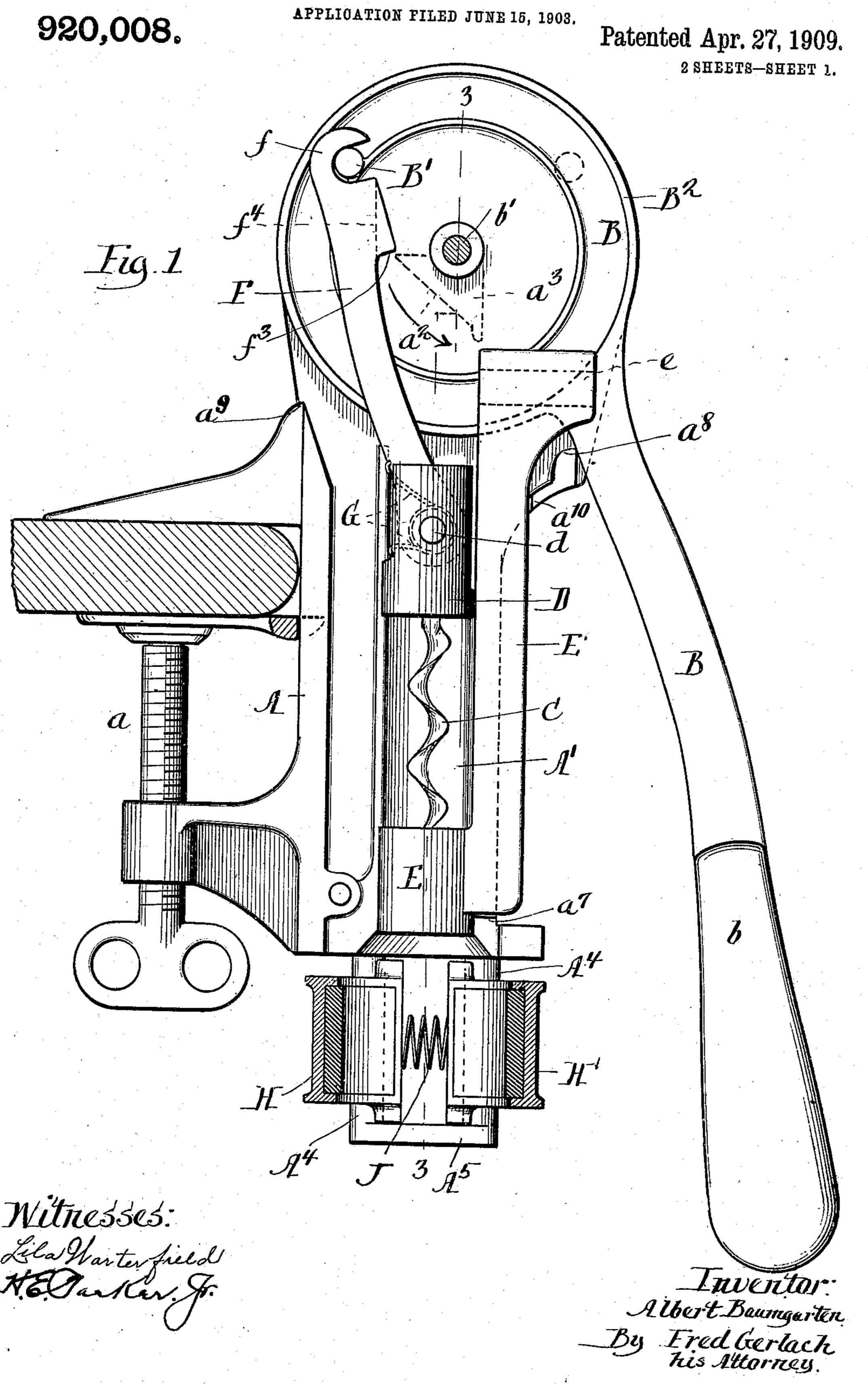
## A. BAUMGARTEN, DEC'D.

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CORK PULLER.



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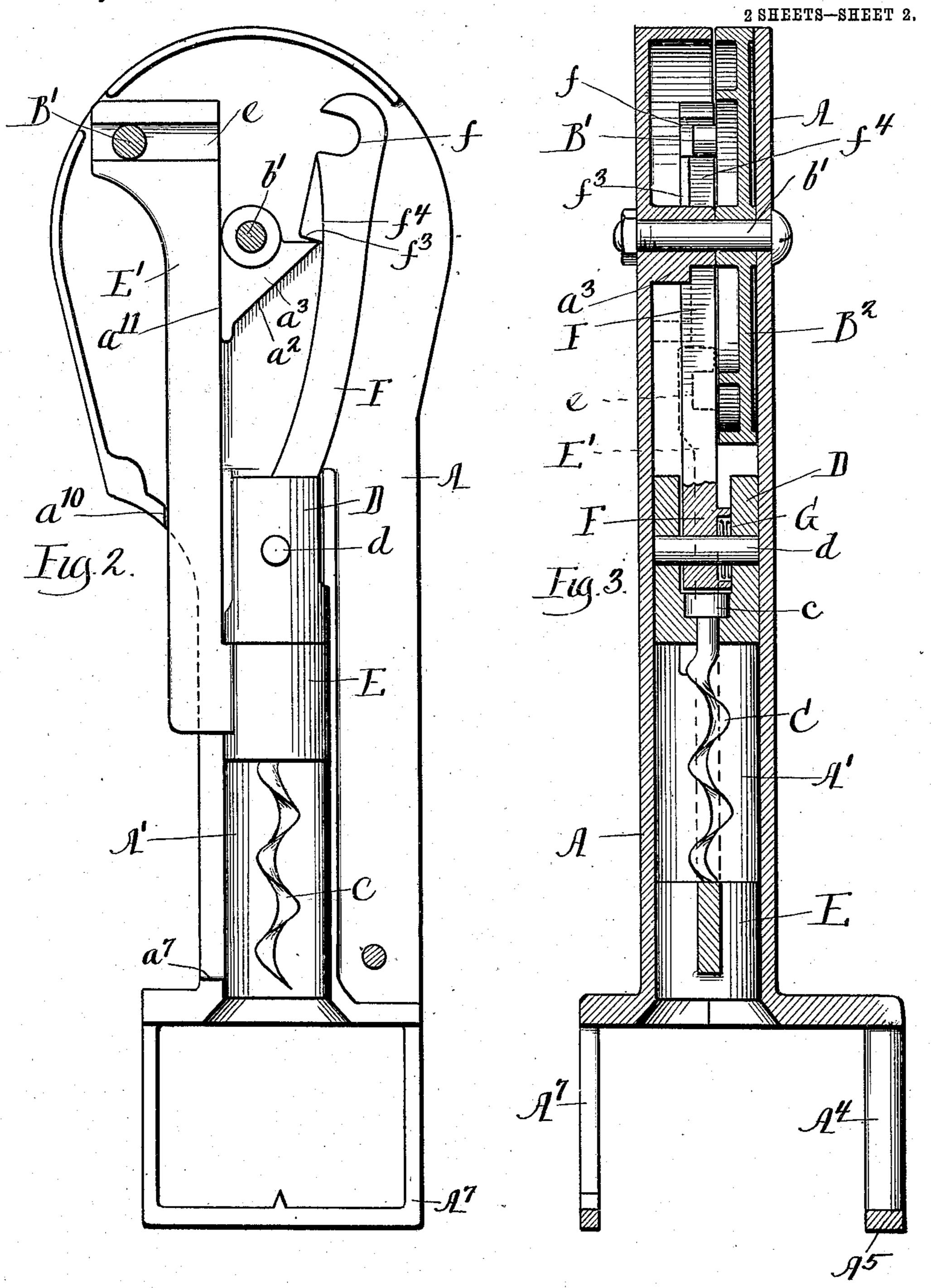
J. BAUMGARTEN, EXECUTRIX.

CORK PULLER.

APPLICATION FILED JUNE 15, 1903.

920,008.

Patented Apr. 27, 1909.



Witnesses: Elastartenfield EParkert. Jr

Inventor:
Albert Baumgarten

By Fred Gerlach

his Attorney.

## UNITED STATES PATENT OFFICE.

ALBERT BAUMGARTEN, OF FREEPORT, ILLINOIS; JOHANNA BAUMGARTEN EXECUTRIX OF SAID ALBERT BAUMGARTEN, DECEASED.

## CORK-PULLER.

No. 920,008.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed June 15, 1903. Serial No. 161,426.

To all whom it may concern:

Be it known that I, ALBERT BAUMGARTEN, a resident of Freeport, in the county of Stephenson and State of Illinois, have in-5 vented certain new and useful Improvements in Cork-Pullers, of which the following is a specification.

The present invention relates to devices for drawing corks, stoppers and the like, from 10 bottles, and more particularly to the class

known as "lever-operated" pullers.

The invention designs to improve the construction and operation of cork-pullers and to provide a device simple in construction, 15 and positive in its operation.

The invention consists in the several novel features hereinafter set forth and more particularly defined by claims at the conclusion

hereof.

In the drawings: Figure 1 is a view in side elevation of a cork-puller embodying the preferred form of the invention, one section of the supporting-frame or casing being omitted. Fig. 2 is a similar view, looking in the oppo-25 site direction and showing the parts in position assumed when a cork has been drawn. Fig. 3 is transverse section on line 3—3 of

Fig. 1.

A denotes a suitable supporting-frame or 30 casing usually provided with a clamp a whereby the cork-puller can be secured to a table, counter or shelf, and formed of sections fitting together, and forming a casing wherein the cork-screw and longitudinally 35 movable parts are guided and held. An operating lever B having a handle b is pivotally sustained by a fulcrum or pin b' held in the frame. A cork-screw C is journaled in a carrier D mounted in manner free to slide in a 40 socket E' in the frame. A pitman or operating-bar F has its lower end connected to carrier D by pin d, and has its upper end detachably connected with the operating-lever, by a hook f which is movable into and out of 45 engagement with an integral stud B' of the lever. A spring G presses bar F toward stud B' to hold hook f and stud B' in engagement with each other. Stud B' travels in a curvilinear path and on both sides of a vertical 50 line passing through the lever-fulcrum b' and a lug  $a^3$  is positioned to detain hook f, at one side of said line, when the pin reaches its lowermost position, and travels to the opposite side of the lever-fulcrum.

A nut E is slidably and non-revolubly held

in the frame and is formed with a spiral groove or opening through which the corkscrew passes, and rotates the screw when longitudinal movement is imparted to one of said parts with respect to the other. Nut E 60 is formed with a vertical-extension E' which is formed with a way or guide e arranged in position to be entered by stud B' after it has passed out of engagement with operatingbar F, and said stud imparts positive longi- 65 tudinal movement in both directions to the nut. A stop such as an abutment  $a^7$  limits the downward movement of the nut. During upward shift of the nut, the carrier will be immediately above the nut and will be 70 positively shifted upwardly by the nut. An inclined surface a<sup>2</sup> of lug a<sup>3</sup> which is integrally formed with the frame, deflects springpressed bar F during the upward shift of the carrier, and a tooth or projection  $f^3$  is pressed 75 into position above abutment a³ by spring G when the operating-bar reaches its uppermost position, so the bar, carrier and corkscrew will be locked and secured against downward longitudinal travel with the nut. 80 Reverse shift of lever B first positively shifts the nut downward to strip the drawn cork from the cork-screw. After the nut has stripped the cork from the screw the nut is in its lowermost position, stud B' will travel 85 upwardly and during such upward movement will engage an inclined surface  $f^4$  on bar F, press the bar away from abutment a<sup>3</sup> and pass into position so hook f will be pressed into engagement with said stud. Lever B 90 is formed with a head B2, having a rim which closes the opening between the side walls of the casing, and wherein the lever travels. Stops a<sup>8</sup> and a<sup>9</sup> on the frame limit the pivotal swing of the operating-lever. Tooth  $f^3$  of 95 the operating bar is arranged out of the path of travel of stud B' so that during retraction of lever B the stud B' will not encounter said hook but will ride along edge  $f^4$  of the bar and disengage the bar from lug a3. Nut E in 100 addition to being guided in socket A', is confined during the longitudinal shift by the frame as at  $a^{10}$  and by a straight edge  $a^{11}$  of lug  $a^2$ . The operation of the mechanism for draw- 105

ing a cork will be as follows: Assuming the

parts to be in normal position shown in Fig.

1, and a bottle with a cork therein, to be held

beneath the frame, the operator will move

lever B in the direction of the arrow and un- 110

and indicated by dotted lines in Fig. 1. During the initial portion of its travel stud B' will move downwardly, and operating-bar 5 F being then operatively connected with said stud by hook f, will move carrier D and corkscrew C downwardly. During such downward travel the cork-screw will be rotated by nut E and the resultant gyratory movement 10 of the screw will drive it into the cork. stud reaches its lowermost position, it will pass out of hook f, and into way e of nut E. Lever B and nut E will then be directly and positively connected, and during the upward 15 travel of stud B' on the opposite side of the lever-fulcrum the nut will be moved upwardly. Such movement of the nut will impart unison longitudinal movement to the superposed carrier and the cork-screw with the cork 20 thereon will be drawn from the cork from the bottle. During the cork-drawing operation, operating-bar F will be forced backwardly by inclined surface  $a^2$  and tooth  $f^3$  will be pressed into position above abutment  $a^3$  and 25 will then secure the carrier against downward movement. The operator will next shift the lever in reverse direction and during the initial reverse shift thereof stud B' will positively shift the nut downwardly inde-30 pendently of the cork-screw and carrier, and strip the cork from the cork-screw. When stud B' reaches its lowermost position in its reverse travel the nut will have been restored to its normal position and the stud 35 will pass out of way e and out of engagement with the nut. During the succeeding upward movement of the stud it will impinge against inclined surface  $f^4$  of bar F, which will be shifted backwardly thereby, and thus 40 disengaged from abutment a<sup>3</sup>, so bar F will be again operatively connected to the lever and so the bar will clear said abutment during the succeeding downward movement, and will be again operatively connected with 45 the carrier. The parts will then be in readiness for another operation.

The operation and construction of the device are simple and the use of interlocking mechanism for insuring unison movement of the carrier and nut is entirely avoided. By stripping the cork from the cork-screw by shift of the nut, an additional operation of the lever, heretofore necessary in corkpullers in which the travel of the cork-screw 55 was sufficient only to draw the cork, and the extended travel necessary in cork-pullers in which the cork-screw has a continuous movement in one direction, sufficient to draw the cork, and strip the cork from the screw, are 60 also avoided.

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

1. In a cork-puller, the combination of a 65 frame, a rotatable cork-screw longitudinally

til B' reaches the position shown in Fig. 2 | movable in said frame, means for rotating the cork-screw longitudinally movable in the frame, an operating-lever supported by the frame for shifting the cork-screw, and means for holding the cork-screw against longi- 70 tudinal movement during a part of the operation of said lever so that the cork can be stripped from the cork-screw by longitudinal movement of said rotating means.

2. In a cork-puller, the combination of a 75 frame, a rotatable cork-screw longitudinally movable in said frame, a nut for rotating the cork-screw longitudinally movable in the frame, an operating-lever supported by the frame for shifting the cork-screw longitudi- 80 nally to drive the screw into a cork and to draw the cork, means for shifting said nut independently of the cork-screw to strip the cork from the cork-screw, and means for holding the cork-screw against longitudinal 85 movement during the stripping operation.

3. In a cork-puller, the combination of a frame, a rotatable cork-screw longitudinally movable in said frame, a part for rotating said cork-screw longitudinally movable in 90 the frame, an operating-lever supported by the frame, means whereby the cork-screw will be shifted in one direction to enter a cork, means whereby said part will be shifted in reverse direction to effect unison longitudi- 95 nal movement of the cork-screw and said part and whereby said part will also be shifted independently of the cork-screw to strip the cork from the screw, and means for holding the cork-screw against longi- 100 tudinal movement so that the cork will be stripped by movement of said part while the cork-screw is held stationary.

4. In a cork-puller, the combination of a frame, a rotatable cork-screw longitudinally 105 movable in said frame, a nut for rotating the cork - screw longitudinally movable in the frame, an operating-lever supported by the frame, means whereby the cork-screw will be shifted in one direction to enter a cork, 110 means whereby said nut will be shifted in reverse direction to effect unison longitudinal movement of the cork-screw and nut and whereby said nut will also be shifted independently of the cork-screw to strip the cork 115 from the screw, and means for holding the cork-screw against longitudinal movement so that the cork will be stripped by move-. ment of the nut while the cork-screw is held stationary.

5. In a cork-puller, the combination with a supporting-frame, a carrier longitudinally movable therein, a cork-screw journaled in said carrier, and a nut for rotating said screw and longitudinally movable in said 125 frame, of an operating-lever, for imparting longitudinal movement to the nut and carrier; means whereby said lever will impart longitudinal movement to one of said longitudinally movable parts, and an operating 130

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bar forming an operative connection between the lever and the other of the longitudinally movable parts, and having a pivotal connection with one, and a detachable 5 connection with the other of the parts connected thereby, and means for disengaging the operating-bar from the part to which it

is detachably connected.

6. In a cork-puller, the combination with 10 a supporting-frame, a carrier longitudinally movable therein, a cork-screw journaled in said carrier, and a longitudinally movable nut for imparting rotation to said screw, of operating-means for imparting longitudinal 15 movement to the nut and carrier, a detachable operative-connection between the carrier and the operating-means, means whereby independent movement will be imparted to the nut, and means locking the carrier 20 against longitudinal movement during a part of its travel when the carrier is detached from the operating-means and the nut is being independently shifted and whereby a cork can be stripped from the cork-screw by 25 shift of the nut while the carrier is held stationary.

7. In a cork-puller, the combination with a supporting-frame, a carrier, longitudinally movable therein, a cork-screw revolubly 30 held in the carrier and a longitudinally movsustained by said frame, an operating-bar fixed part by the operating lever after said pivotally connected with the carrier, and independent shift of the nut. means shifted by said lever and shifting the 35 operating-bar, in one direction, and then passing out of engagement with said bar and shifting the nut in reverse direction, a fixed abutment or stop said bar swinging into engagement with said stop during the reverse 40 shift of the carrier, so the nut will move independently of the carrier during shift of the

nut in opposite direction.

8. In a cork-puller, the combination with a supporting-frame, a carrier, longitudinally 45 movable therein, a cork-screw rotatably held in the carrier and a longitudinally movable nut, of an operating lever, pivotally sustained by said frame, an operating-bar pivotally connected with the carrier, a stop or 50 abutment means shifted by said lever for

shifting the operating-bar in one direction and said bar being shifted into engagement with said stop or abutment during the reverse shift of the carrier, so the nut will move independently of the carrier during 55 shift of the nut in opposite direction, and means disengaging the bar from the fixed part after such independent shift has been

imparted to the nut.

9. In a cork-puller, the combination with 60 a supporting-frame, a carrier longitudinally movable therein, a cork-screw revolubly held in the carrier, and a longitudinally movable nut, of an operating lever, pivotally sustained by said frame, and provided 65 with a stud, an operating-bar pivotally connected with the carrier, and a fixed abutment whereby said bar will be held against longitudinal movement, a detachable connection between said stud and said operat- 70 ing bar said stud being shifted into engagement with said bar and shifting said carrier independently in one direction, and then passing out of engagement with said bar and into engagement with said nut, and shifting 75 the nut and carrier in reverse direction, during which shift said bar passes into engagement with the fixed part, so the stud will during its next movement in opposite direction move the nut independently of the car- 80 able nut, of an operating lever, pivotally | rier, said bar being disengaged from the

10. In a cork-puller, the combination with a supporting-frame, a carrier longitudinally 85 movable in said frame, a cork-screw revolubly mounted in said carrier, and a nut longitudinally movable in the frame, a pivoted operating-lever supported by the frame, a bar forming an operative connection be- 90 tween said lever and one of the longitudinally movable parts and pivoted to one of the parts connected thereby and detachably connected to the other of the connected parts, and a spring pressing the bar into po- 95 sition to connect with said latter part.

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