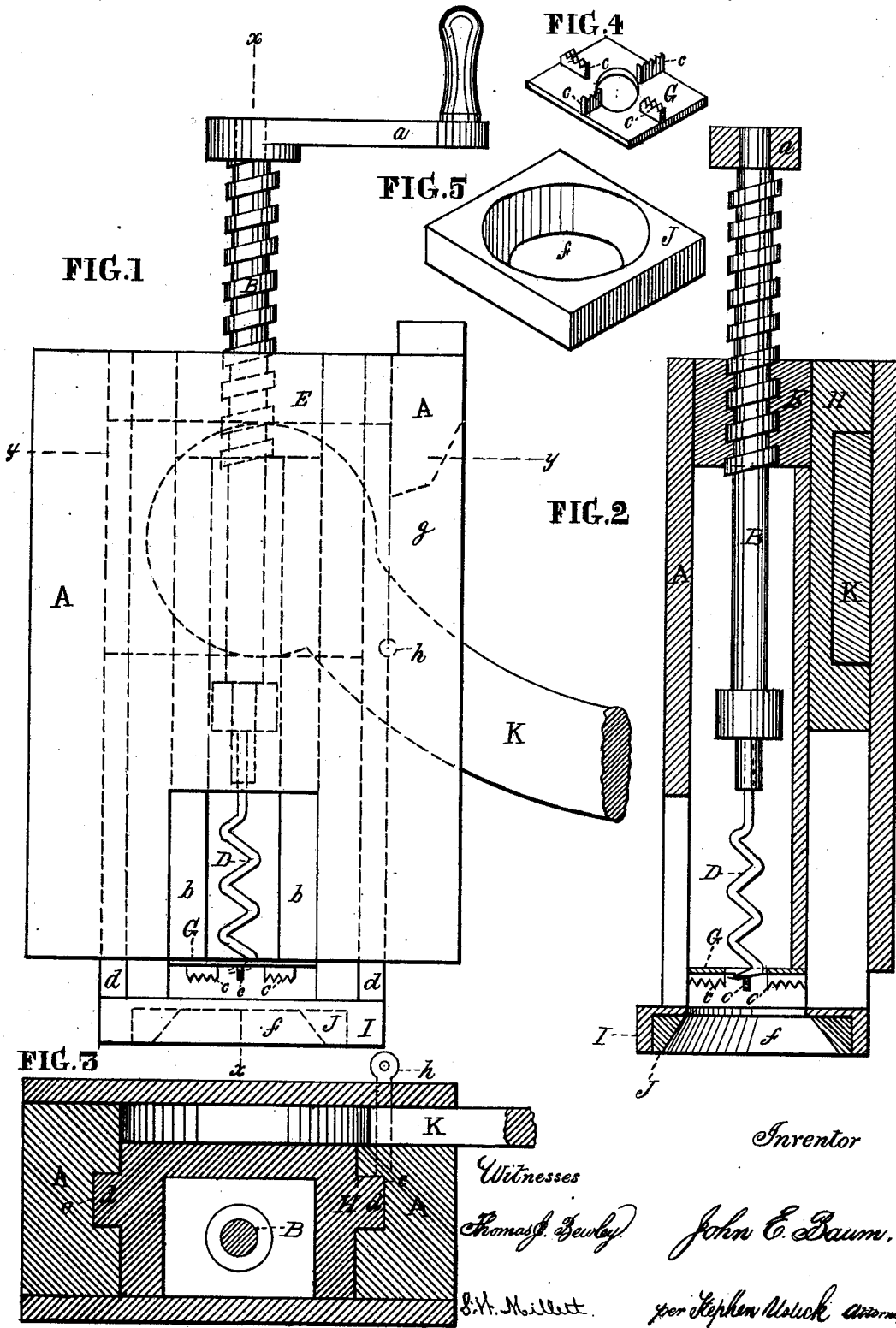


J. E. BAUM.  
Cork-Screw.

No. 197,201.

Patented Nov. 20, 1877.



Inventor

Witnesses

Thomas J. Sewley

S. H. Millet

John E. Baum

per Stephen W. Beck attornys

# UNITED STATES PATENT OFFICE.

JOHN E. BAUM, OF FREELAND, PENNSYLVANIA.

## IMPROVEMENT IN CORKSCREWS.

Specification forming part of Letters Patent No. **197,201**, dated November 20, 1877; application filed October 20, 1877.

### *To all whom it may concern:*

Be it known that I, JOHN E. BAUM, of Freeland, in the county of Montgomery and State of Pennsylvania, have invented a new and useful Machine for Uncorking Bottles, &c., which improvement is fully set forth in the following specification and the accompanying drawings, in which—

Figure 1 is a front view of the machine. Fig. 2 is a vertical section, taken at the line *x x* of Fig. 1. Fig. 3 is a cross-section, taken at the line *y y* of Fig. 1. Fig. 4 is an isometrical view of the toothed cork-holder G. Fig. 5 is a like view of the bottle-head rest J.

Like letters of reference in all the figures indicate the same parts.

The object of my invention is the employment of suitable means for the rapid removal of corks from bottles, jars, and other vessels, and the withdrawal of the corkscrew from the cork, and at the same time the prevention of the splashing incidental to the removal of the corks in the usual way by simply using a corkscrew.

The nature of the invention consists in the combination of a vertical rod, provided with a corkscrew on its lower end and a crank on its upper end, with a case and vertical slide, which is operated by means of a lever. The slide is provided with a plate on its lower end having a mouth-piece to rest upon the head of the bottle, and an opening for the upward passage of the cork in such a manner that the upper end of the cork may be brought to bear against the teeth of a plate fastened to the lower end of the above-mentioned case, to prevent the cork turning around by the operation of the corkscrew. The object of the slide is to withdraw the cork from the bottle after the corkscrew has been securely fastened therein, as hereinafter fully described.

A is a case, made of any suitable form, and is intended to be used by hand or fastened to any convenient permanent object. B is a screw-rod, having a corkscrew, D, firmly connected with its lower end. It works in the permanent nut E of the case, as seen in Fig. 2, being operated by means of the crank *a*.

Confined to the lower ends of the permanent parts *b b* of the case A is the plate G, which has toothed projections *c c c c* for press-

ing into the upper end of the cork, to hold it firmly in position and to prevent it from being turned around by the action of the corkscrew.

H is a vertical slide, having tongues *d d*, which work in the grooves *e e* of the case; but, if desired, the tongues and grooves may be omitted, the slide being guided merely by the inner surfaces of the four sides of the case. The slide has on its lower end the plate-frame I, provided with a plate, J. (Seen in detail in Fig. 5.) The plate is fastened in a rabbet of the frame I, or it may be otherwise secured thereto. It has a hole, *f*, of circular or other form, large enough for the cork to pass through and to receive the head of the bottle and support it against its passage through the opening. The plate is made of wood or other suitable material.

K is a lever for operating the slide H, its rounded and inner end being held in the cross-recess *g* in the rear side of the slide, so as to work freely when the lever turns on the fulcrum-pin *h*. The front plate of the case is made detachable with the parts connected therewith, as shown in the drawings, for the convenience of the construction of the machine, and to facilitate putting the parts together.

If desired, the frame I and plate J may be made in a single piece, instead of separate, as above described.

The operation is as follows: The corkscrew being elevated above the toothed plate G, as shown in the drawings, and the head of the bottle being placed in the central opening *f* of the plate J, and the cork brought against the teeth of the plate G, the crank *a* is turned around so as to force the corkscrew D into the cork sufficiently far to make a firm connection, and the handle of the lever is moved upward, so as to press the slide H downward, whereby the cork is withdrawn from the bottle or other vessel; then the crank *a* is reversed in its movement until the corkscrew passes above the plate G, to free it from the cork.

In using the machine in uncorking small bottles their heads might pass through the opening *f* of the plate, in which case the hand of the operator can easily perform the func-

tion of the plate in resisting the action of the slide in withdrawing the cork.

I claim as my invention—

1. The slide H, having a frame, I, and plate J, with an opening, *f*, in combination with the case A, and screw-rod B, having a corkscrew, D, the slide being operated by means of the lever K or other suitable device, pushing it down against the bottle to remove the cork, and in lifting the slide up into its upward position, substantially as and for the purpose set forth.

2. The combination of the screw-rod B, provided with the corkscrew D, the case A, having a nut, E, and toothed plate G, the slide H, and the lever K, substantially as and for the purpose set forth.

JOHN E. BAUM.

Witnesses:

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