(No Model.)

J. GONOROVSKY.

NON-REFILLABLE JAR OR BOTTLE.

No. 589,965. Patented Sept. 14, 1897.

FIG. 1.

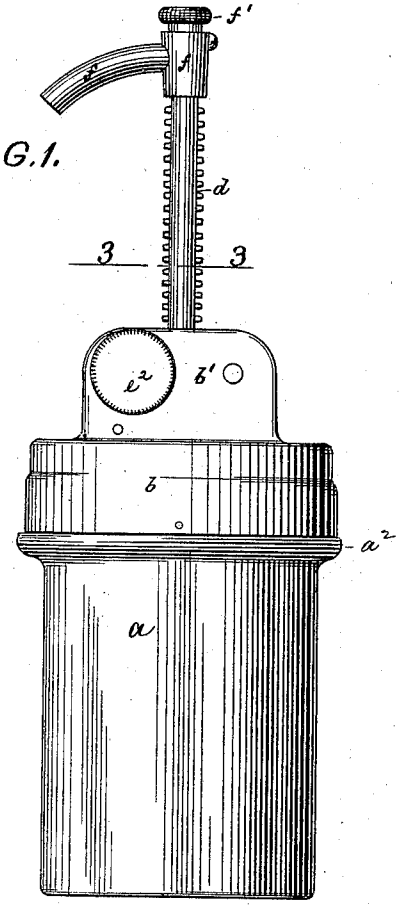


FIG. 2.

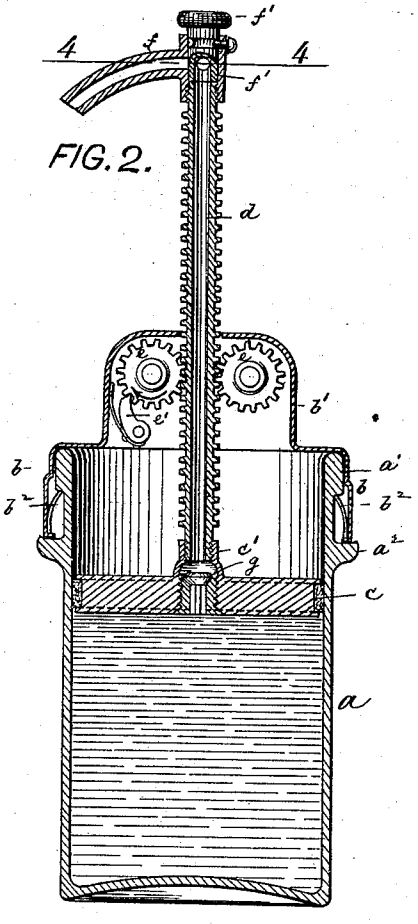


FIG. 3.

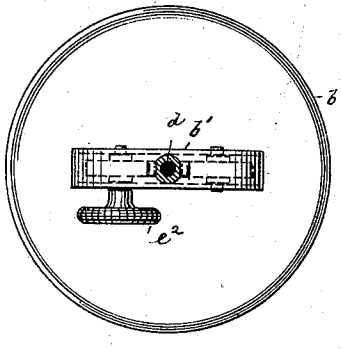
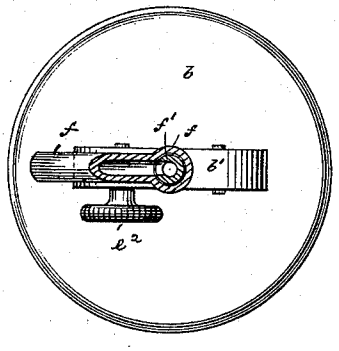


FIG. 4.



Witnesses.
John Becker.
William Miller.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOSEPH GONOROVSKY, OF NEW YORK, N. Y.

NON-REFILLABLE JAR OR BOTTLE.

SPECIFICATION forming part of Letters Patent No. 589,965, dated September 14, 1897.

Application filed August 4, 1897. Serial No. 647,049. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH GONOROVSKY, of New York city, New York, have invented an Improved Non-Refillable Jar or Bottle, of which the following is a specification.

This invention relates to a jar, bottle, or similar vessel so constructed that it cannot be refilled when once emptied.

In the accompanying drawings, Figure 1 is a side elevation of a jar embodying my invention. Fig. 2 is a vertical longitudinal section thereof; Fig. 3, a cross-section on line 3 3, Fig. 1; and Fig. 4, a cross-section on line 4 4, Fig. 2.

The letter *a* represents the body of a jar, bottle, or similar vessel, which is securely closed on top by a cover *b*, bulged to form a housing *b'* above the jar. The cover *b* is secured to the vessel *a* in such a manner that it cannot be removed. To this effect the vessel is provided with an upper bead *a'* and a lower wider bead a^2. The rim of the cover *b* projects over the upper bead and rests upon the lower bead. It is provided with inwardly-projecting springs b^2, which engage the lower side of the upper bead. Thus the cover may be readily sprung upon the vessel, but when once seated cannot be removed.

Within the vessel *a* is contained a disk or piston *c*, which is properly packed and which is centrally perforated to communicate with the lower end of a tubular piston-rod *d*, which is detachably secured to the disk by means of a screw-coupling *c'*. The tube *d* projects through an opening of housing *b'* and is provided with teeth to constitute a rack. This rack is engaged by one or two pinions *e*, of which one at least is engaged by a pawl *e'*, so that it can revolve only in the direction of the arrow, Fig. 2. The pinions *e* are hung within the housing *b'* and are entirely inaccessible. The spindle of one of the pinions *e* projects outwardly through the housing and carries a button e^2, by which the pinion can be revolved to lower the tube *d* and to thus cause the piston to descend. An upward motion of the piston is, however, prevented by the pawl *e'*, so that the piston when once completely lowered can never be raised.

At its upper end the tube *d* carries a removable nozzle *f*, containing a perforated revoluble plug *f'*, by which communication between tube *d* and nozzle *f* may be established. A valve *g*, that prevents ingress of air or liquid, is contained within a chamber at the lower end of tube *d*.

In use the vessel *a* is charged, the piston is inserted, and the cover sprung in place. To draw the liquid, the pinion *e* is revolved, by means of button e^2, to lower tube *d* and to thus cause the piston *c* to press upon the liquid and to force it up through the tube and out of the nozzle. When all the liquid has been discharged and the piston has reached its lowermost position, it is impossible to refill the bottle because the piston cannot be raised.

If the piston is to be reused in another vessel, the vessel *a* is broken, the nozzle *f* removed, and the piston-rod drawn down to clear the pinions.

What I claim is—

1. The combination of a vessel with a piston, a toothed tube projecting upwardly therefrom, a housing, a pinion hung within the same and engaging the tube, and a pawl engaging the pinion, substantially as specified.

2. The combination of a vessel with a bulged cover to constitute a housing, a piston within the vessel, a toothed tube projecting upwardly therefrom, a pinion hung within the housing and engaging the tube, a pawl engaging the pinion, and a valve for closing the tube, substantially as specified.

3. The combination of a vessel having a pair of beads with a cover resting on the lower bead, a spring projecting inwardly from the cover and engaging the upper bead, a piston within the vessel, a toothed tube projecting upwardly therefrom, a pinion hung within the cover, and a pawl engaging the pinion, substantially as specified.

JOSEPH GONOROVSKY.

Witnesses:
F. V. BRIESEN,
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