

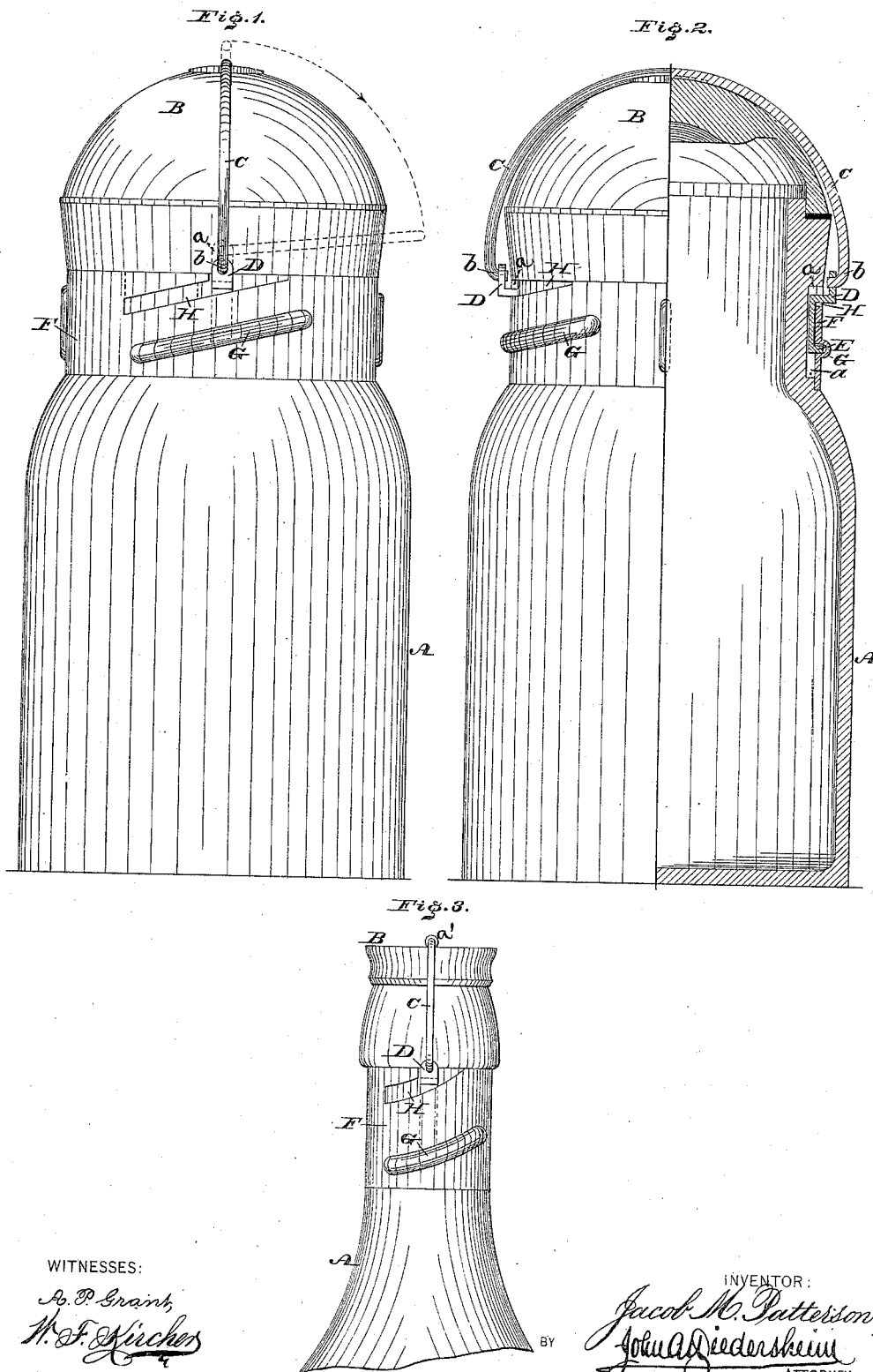
(No Model.)

J. M. PATTERSON.

JAR AND BOTTLE STOPPER FASTENER.

No. 302,770.

Patented July 29, 1884.



UNITED STATES PATENT OFFICE.

JACOB M. PATTERSON, OF WOODBURY, NEW JERSEY.

JAR AND BOTTLE STOPPER FASTENER.

SPECIFICATION forming part of Letters Patent No. 302,770, dated July 29, 1884.

Application filed December 20, 1883. (No model.)

To all whom it may concern:

Be it known that I, JACOB M. PATTERSON, a citizen of the United States, residing at Woodbury, in the county of Gloucester, State of New Jersey, have invented a new and useful Improvement in Jar and Bottle Stoppers, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation of a jar embodying my invention. Fig. 2 is a partial side elevation and partial vertical section thereof. Fig. 3 is a side elevation showing the stopper applied to a bottle.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a jar or bottle stopper fastener, the construction, operation, and advantages thereof being hereinafter fully set forth.

Referring to the drawings, A represents a jar or bottle, which, excepting the feature of my invention, is of usual construction.

B represents the cap or cover for closing the mouth of the jar or bottle, and C the bail, which is pivoted to vertically-sliding pieces D, the latter being fitted in recesses *a* in the side of the neck of the jar or bottle, below the shoulder thereof. The bottoms of the pieces are formed with toes E, and the tops thereof have eyes for the reception of the ends *b* of the bail, said ends forming the journals thereof.

F represents a band which encircles the neck of the jar or bottle and a portion of the pieces D, said band being formed on its inner face on opposite sides with spiral grooves G G, into which project the toes E. In the band F are also formed on opposite sides spirally-extending recesses or ways H, into which the eye portions of the slides or sliding pieces D are adapted to enter when the band is rotated.

In Figs. 1 and 2 the bail C is shown disconnected from the cap or cover of a jar, and in Fig. 3 said bail is shown pivoted, as at *a'*, to the cap or cover of a bottle.

The operation is as follows: In order to open the jar or bottle, the band F is rotated, whereby, owing to the spiral grooves G, the slides D are moved upwardly, thus raising with them the bail C, which may then be readily swung laterally, turning on the slides as their axes. The cap or cover may now be removed, or, if connected with the bail, is

removed with the bail, and the jar or bottle is open. In order to close the jar or bottle, the cap or cover, or stopper proper, is located on the mouth of the jar or bottle, and the band F rotated in a direction the reverse of that previously described. This lowers the slides D and the bail is carried down there-with, thus forcibly pressing the cap or cover on its seat and tightly sealing the jar or bottle. As the toes of the slides are within the band or between the same and the neck of the jar or bottle, and ride in the spiral grooves by which they are raised or lowered, they are concealed and not liable to be struck or expose their angles or edges to the hand of those carrying the jar or bottle or operating the rotary band.

In order to set out the bail from the sides of the jar or bottle, or obviate long ends or journals for the bail, the upper ends of the sides are bent outwardly and upwardly, as more clearly shown in Fig. 2.

The slides are formed of cast or wrought metal, and the bail of wire.

The recesses H for the passage of the ear portions of the slides may be cut out to the top of the band; but upper walls for the recesses are desired for purposes of strength.

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

1. A jar or bottle stopper fastening consisting of a swinging bail, vertically-sliding pieces, and a rotary band, the bail being pivoted to the sliding pieces, the band having spiral grooves on its inner face, and the sliding pieces provided with lugs or toes, which enter the grooves of the band, substantially as and for the purpose set forth.

2. A swinging bail and a rotary band with spiral grooves, in combination with sliding pieces formed with lugs or toes at the bottom, and set-out ears at the top, substantially as and for the purpose set forth.

3. A jar or bottle provided with recesses receiving vertically-sliding pieces, which latter have toes and ears at opposite ends, a rotary band with spiral grooves and recesses encircling the jar or bottle, a swinging bail hinged to said sliding pieces, and a cap or cover, combined and operating substantially as and for the purpose set forth.

Witnesses: JACOB M. PATTERSON.

JOHN A. WIEDERSHEIM,
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