

(No Model.)

W. WINSTON.
BOTTLE.

No. 577,634.

Patented Feb. 23, 1897.

Fig. I.

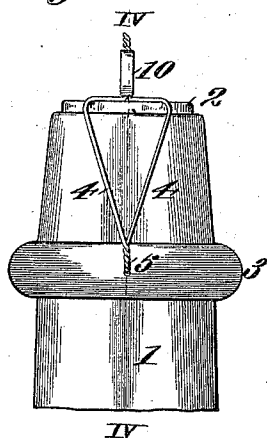


Fig. IV.

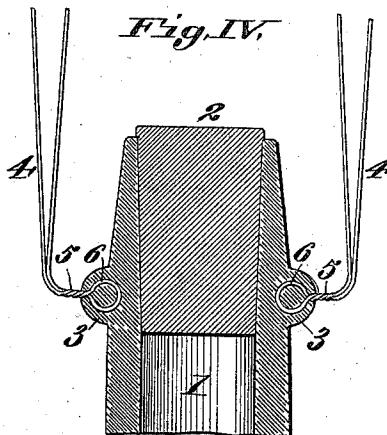


Fig. II.

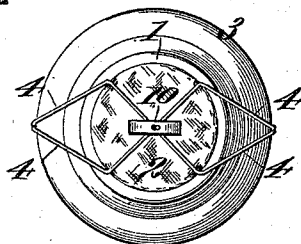


Fig. III.

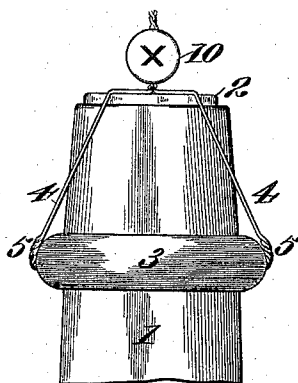
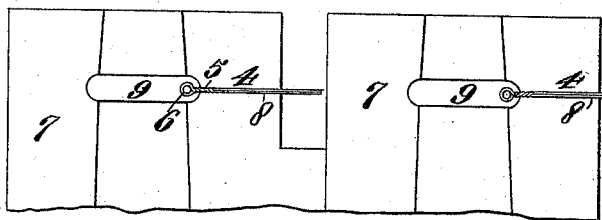


Fig. V.



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UNITED STATES PATENT OFFICE.

WARWICK WINSTON, OF SHANGHAI, CHINA.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 577,634, dated February 23, 1897.

Application filed October 3, 1896. Serial No. 607,741. (No model.)

To all whom it may concern:

Be it known that I, WARWICK WINSTON, a citizen of the United States, residing at Shanghai, Province of Kiang-su, China, have invented a certain new and useful Improvement in Bottles, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to an improvement in bottles of the class employing stopper-retaining wires; and the invention, briefly stated, consists in a bottle having molded or cast in the material of the neck thereof the stopper-retaining wires. The common manner of applying such wires to the necks of bottles has been to form a portion of the wire into a band that encircles the neck of the bottle beneath a projection thereon, and the ends of the wire are then carried over the bottle-stopper and suitably secured together.

The prime object of my invention is the prevention of the fraudulent use of bottles after being emptied of their original contents without such fraudulent use being made apparent.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Referring to the drawings, Figure I is a view in elevation of the neck of a bottle provided with wires inserted therein in accordance with my invention. Fig. II is a top view. Fig. III is a view in elevation of the bottle-neck shown in Fig. I, the view being taken looking at the bottle-neck at a quarter of a turn from the position shown in Fig. I. Fig. IV illustrates a vertical section taken on line IV IV, Fig. I. Fig. V illustrates in outline an open mold for employment in the construction of my improved bottle.

In the drawings, 1 designates the neck of a bottle of any common form, and 2 the stopper therein. The neck of the bottle is provided with an annular rib or enlargement 3.

4 designates wires, each one of which is bent at a point near the center of its length to bring its two ends together, thus doubling the wire,

and the closed end of the doubled wire is then formed into a twist 5, that produces a loop 6. The doubled wires are then in the shape in which they are shown in the mold in Fig. V, and they are inserted in the mold through openings 8 at the point 9 of the mold in which the rib or projection 3 is formed. With the wires in the position explained, the mold is closed and the bottle formed in the usual manner and the wires 4 will be cast in the rib or projection 3 of the neck of the bottle.

In securing the stopper 2 in the bottle the ends of the wires 4 are brought above the stopper and twisted together, when they are held by a seal 10, preferably of soft metal, such as lead, or the wires may be joined together in any other suitable manner.

The advantage of a bottle so constructed is that the wires being blown into the material of the bottle cannot be removed from the stopper without breaking them, and when broken they can only be replaced by mending, which, if done, produces a telltale and affords means of detection of the bottle having been tampered with.

Another advantage lies in the fact that the bottle is not impaired for other purposes, but cannot be used as an original.

I claim as my invention—

1. A bottle having a neck formed with a rib, and retaining-wires having loops molded within the rib and extending laterally therefrom, substantially as described.

2. A bottle having a neck formed with a rib and retaining-wires folded upon themselves and twisted at their inner ends providing loops molded within the rib and extending laterally therefrom; substantially as described.

3. A bottle having a neck formed with a rib located at a distance beneath the mouth of the bottle, and retaining-wires having loops molded within the rib and extending laterally therefrom, substantially as described.

WARWICK WINSTON.

In presence of—

G. A. SHUFELDT,
R. V. EASTLACK.