

(No Model.)

S. CROCKER.
BOTTLE STOPPER.

No. 591,159.

Patented Oct. 5, 1897.

Fig. 1.

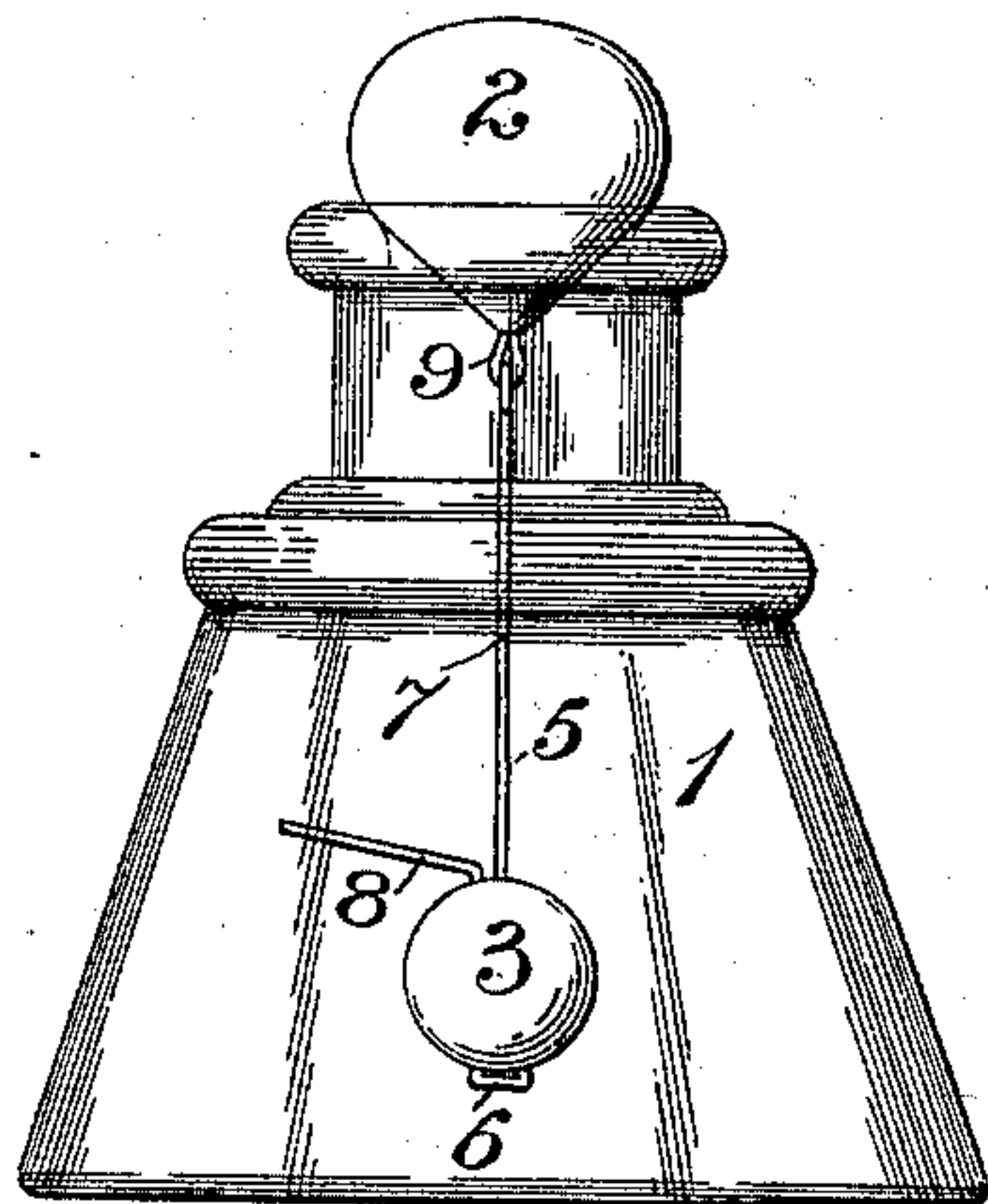


Fig. 2.

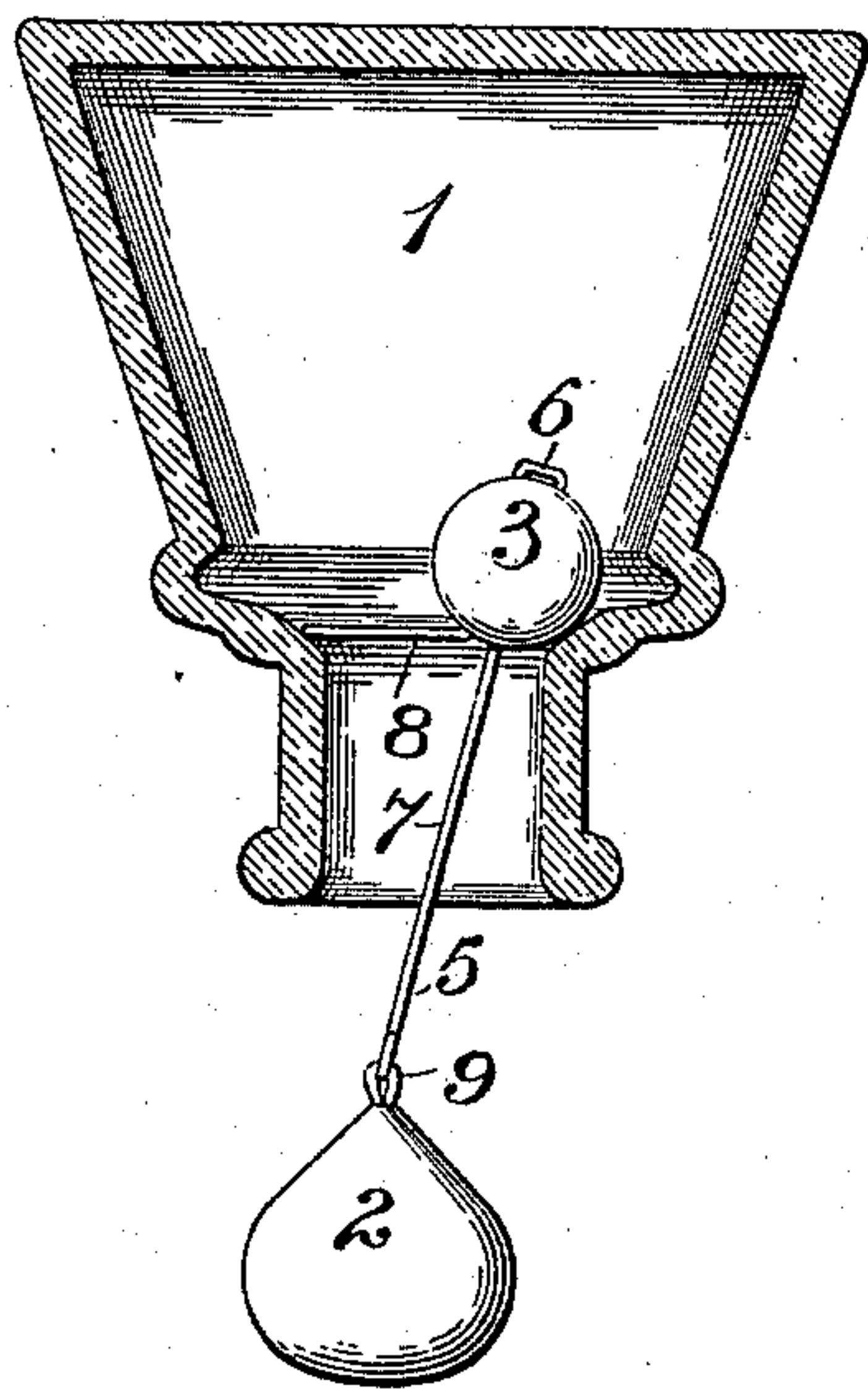
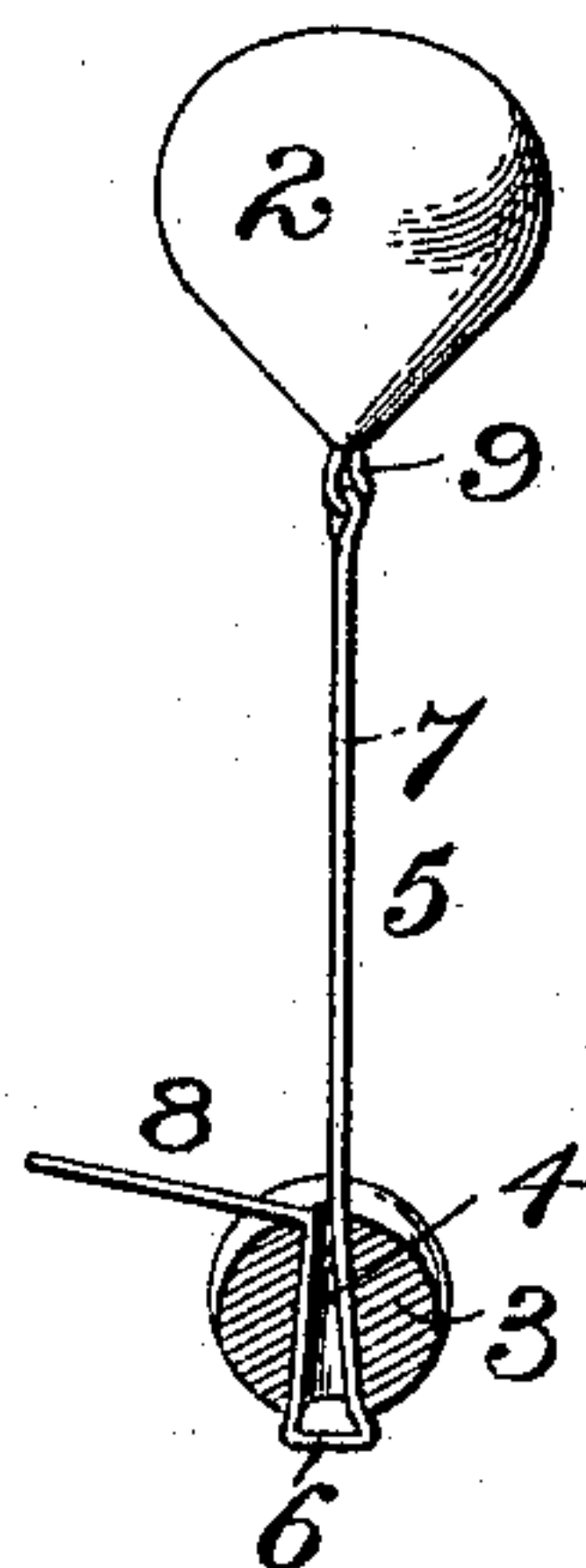


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL CROCKER, OF OKLAHOMA, OKLAHOMA TERRITORY.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 591,159, dated October 5, 1897.

Application filed May 25, 1897. Serial No. 638,136. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL CROCKER, a citizen of the United States, residing at Oklahoma, in the county of Oklahoma and Territory of Oklahoma, have invented a new and useful Bottle-Stopper, of which the following is a specification.

This invention relates to self-acting bottle-stoppers, its object being to provide a simple, cheap, and efficient device of this character which cannot easily be detached from the bottle.

With these and other objects in view the invention consists of the several details of construction and combination of parts hereinafter fully described, and particularly pointed out in the claims.

In order to illustrate my invention, I have in the accompanying drawings shown it applied to an ordinary ink-bottle, in which—

Figure 1 is an elevation of an ink-bottle of a common form equipped with my improved stopper. Fig. 2 is a sectional view of the same inverted, showing the position the stopper occupies under such circumstances. Fig. 3 is a perspective view of the stopper-weight and connecting-wires, the weight being in section.

Similar reference-numerals indicate similar parts in the several figures.

1 indicates a bottle, and 2 the stopper, which may be of any suitable material. This stopper is conical in form, and the pointed end is adapted to project within the neck of the bottle.

3 indicates a weight which is provided with a perforation 4, which extends centrally through it.

5 indicates a wire which is bent upon itself to form a loop 6, and this bent wire is passed through the perforation 4 in the weight 3, and the loop 6 is expanded to form a support for the weight and prevent it from slipping off the wire. One of the end portions 7 of the bent wire is longer than the other end portion 8, and the short portion 8 is bent at substantially a right angle in such manner that it will engage the shoulder below the neck of the bottle and form an elastic prong which will prevent the withdrawal of the weight from the bottle unless considerable force is employed.

9 indicates a wire firmly secured in the stop-

per 2 and projecting from the pointed end of the stopper into the bottle, and this wire 9 has a link connection with the wire 7, as indicated at 9. The connection between the stopper and the weight is therefore flexible and will permit the weight to swing out of a perpendicular position and still maintain the stopper in the mouth of the bottle.

When the device is used in connection with an ink-bottle, a very slight pressure of the pen upon the conical stopper will cause it to roll aside sufficiently for the pen to be inserted in the ink-bottle, and as soon as the pen is withdrawn the stopper will be automatically returned to its position to close the mouth of the bottle.

It is obvious the stopper may be used with equal advantage with other than ink-bottles, and if it is desired to pour any kind of liquid from a bottle the stopper will automatically open the bottle when the latter is tilted sufficiently to pour liquid from it, and as soon as the bottle is returned to a perpendicular position the stopper will automatically return to its position to close it.

From the foregoing description it will be seen that the device is exceedingly simple in construction and may be manufactured at a very low cost and that it will always be in its proper position relative to the bottle and will serve effectually to secure the contents of the bottle from flies, dust, or evaporation.

It is to be understood that changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described the invention, what I claim is—

1. In a self-acting bottle-stopper, the combination of a stopper to fit in the mouth of the bottle, a wire flexibly connected at its upper end to the stopper and extending into the bottle and having its other end bent at an angle, and a weight connected to the wire within the bottle, said bent end serving to prevent the withdrawing of the weight from the bottle, substantially as described.

2. In a self-acting bottle-stopper, the combination of a conical stopper to fit in the mouth of a bottle, a weight having an opening extending through it, a wire bent upon itself and inserted through the opening in the

weight, and the loop in the wire being expanded to form a support for the weight, one end portion of the wire being bent at an angle to prevent the withdrawal of the weight
5 from the bottle, a wire firmly secured to the stopper and having a link connection with the unbent end of the wire connected to the weight, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

SAMUEL CROCKER.

Witnesses:

E. P. MUNGER,
L. E. MUNGER.