

(No Model.)

E. MOORE.
BOTTLE.

No. 599,285.

Patented Feb. 15, 1898.

Fig. 1.

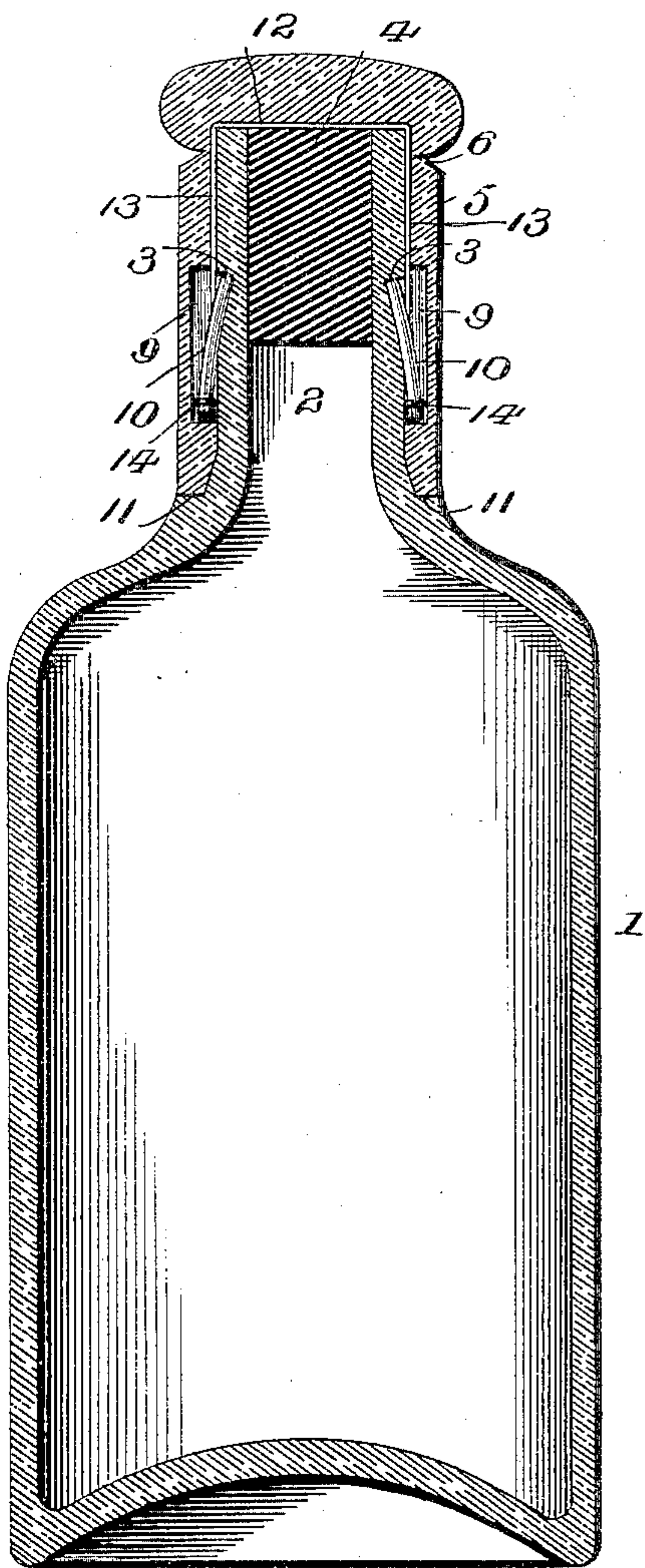


Fig. 2.

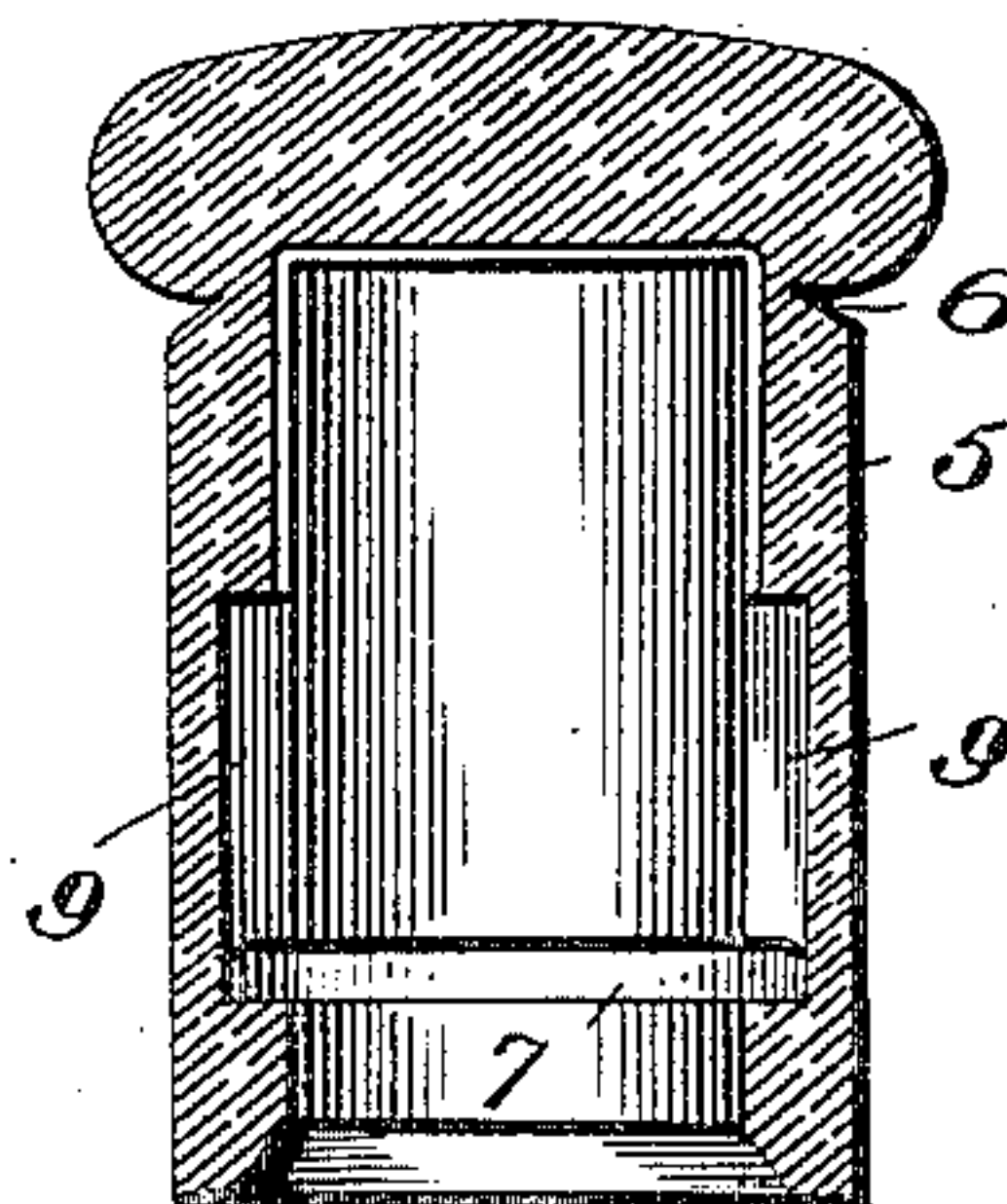


Fig. 3.

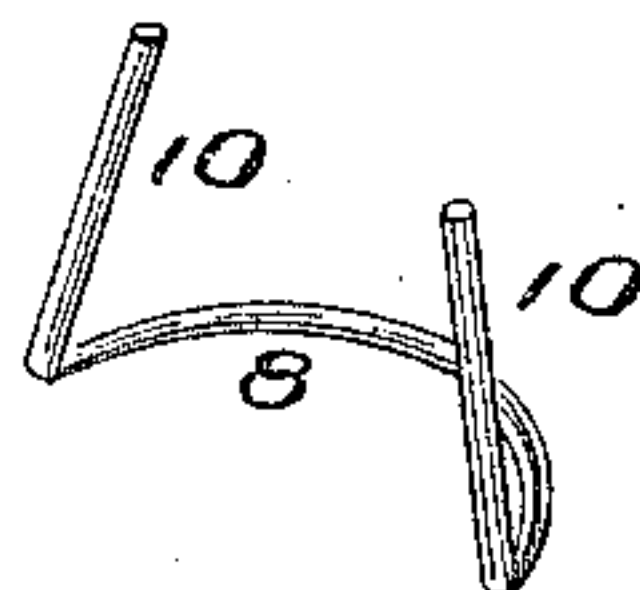
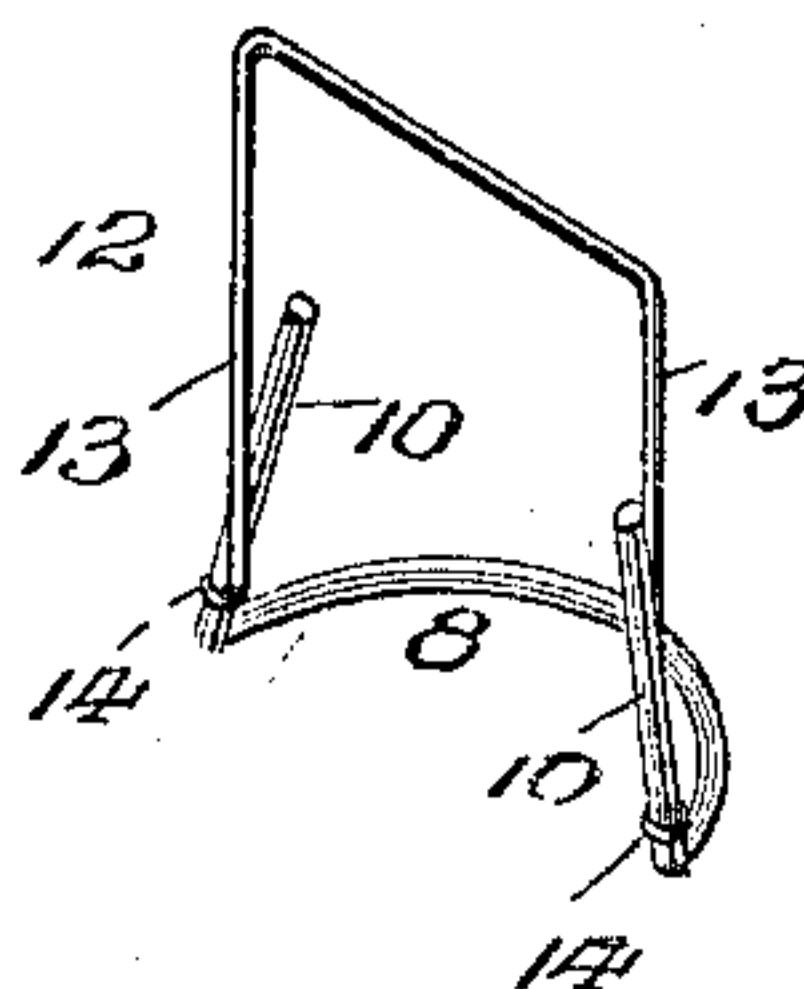


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

ELISHA MOORE, OF MEDUCTIC, CANADA.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 599,285, dated February 15, 1898.

Application filed December 29, 1896. Serial No. 617,338. (No model.)

To all whom it may concern:

Be it known that I, ELISHA MOORE, a subject of the Queen of Great Britain, and a resident of Meductic, in the county of York and Province of New Brunswick, Canada, have invented certain new and useful Improvements in Bottles, of which the following is a specification.

My invention relates to bottles of that class which are provided with features or attachments which must be destroyed before the contents of the bottle can be removed and which can only be replaced at the place of origin of the goods, so that an unauthorized refilling of the bottle is rendered impracticable.

My invention comprises a frangible cap which will cover the mouth of the bottle to prevent removal of the cork and which has automatic engaging means which prevent removal of the cap except by breaking it, the means being of certain novel character to be hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical section of a bottle embodying the features of my present invention, while Fig. 2 is a similar view of the cap removed; and Figs. 3 and 4 are perspective views showing, respectively, the locking-spring and said spring in connection with the disengaging-bail.

1 represents the bottle, and 2 the neck, which latter is provided with the customary shoulder 3 or a shoulder especially provided, and said neck carries a stopper 4, as usual.

5 represents a cap which fits over the neck of the bottle, so as to close the mouth and prevent access being had to the stopper 4, and said cap is provided with an annular notch 6 to weaken it on that line to permit the top of the cap to be conveniently broken off when it is desired to gain access to the stopper. If the cap carries a designation or imprint of any kind which can only be reproduced by the original manufacturer, it will readily be seen that the breaking of the cap offers an effectual means of preventing the refilling of the bottle and its sale with inferior contents as the goods of the original manufacturer.

To provide for automatically locking the cap upon the bottle and thus making it convenient to slip the cap in place after the bot-

tle is closed, said cap has a semi-annular groove 7, in which the semi-annular portion 8 of the locking-spring is received, and also with vertical diametrically opposite recesses 9, in which the locking-dogs 10 of said spring may enter to permit the cap to be forced over the head of the bottle, upon which it neatly fits. The dogs 10 are given such a set or position that they snap into the spaces beneath the shoulders 3 of the bottle as the cap is pressed down and thus rendered impossible to afterward remove the cap except it be first broken along the line of the notch 6.

11 represents a shoulder which receives the base of the cap and prevents the introduction of an instrument which might be used to disengage the dogs from the shoulder and permit removal of the cap.

To provide for removing the cylindrical portion of the cap after the top has been broken off, I employ a bail 12, which remains within the cap in a recess formed for the purpose, as shown, and extends across the top of the bottle, so that it may be taken hold of when the top is broken off, and said bail has downwardly-extending arms 13, with eyes 14, engaging the respective dogs 10 in such a way that when the bail is drawn up the dogs will be forced out from beneath the shoulder 3 to release the cylindrical portion of the cap, while said eyes then engage with shoulders 15 at the upper ends of recesses 9 and draw the cylindrical portion of the cap from the bottle, leaving the latter unencumbered and clean.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The combination of a bottle formed with a shoulder, a cap having a frangible end covering the head of the bottle and provided with automatic locking means for engaging the shoulder and an unlocking-bail over the end of the bottle beneath the cap and having downward extensions engaging the locking means, substantially in the manner and for the purpose set forth.

2. As a new article of manufacture a cap for bottles provided with the external circular groove 6 to render its top frangible, the internal semicircular groove 7 and vertical grooves at the ends of the semicircular grooves 9 for the reception of a locking-spring to en-

gage the head of a bottle substantially as herein explained.

3. As a means for closing bottles, the frangible cap 5 formed with the semi-annular groove 7 and the vertical recesses 9 in combination with a self-locking spring formed with the semi-annular portion 8 located in the groove 7 and the locking-dogs 10 working in and out in recesses 9 and adapted to engage a shoulder on the neck of the bottle substantially as set forth.

4. As a means for closing bottles, a cap having a frangible top and interior recesses to receive an automatic locking-spring, a suit-

able automatic locking-spring in said recesses, 15
and an unlocking-bail having a transverse portion extending across the top of the bottle within reach after the top is removed and downwardly-extending portions having eyes in engagement with the locking-spring to force 20
the same out of engagement with the bottle, and adapted to engage in the recess of the cap to remove the latter after disengaging the spring, substantially as herein explained.

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Witnesses:

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