

No. 713,548.

Patented Nov. 11, 1902.

V. D. WHITE.
BOTTLE.

(Application filed July 29, 1902.)

(No Model.)

Fig. 1.

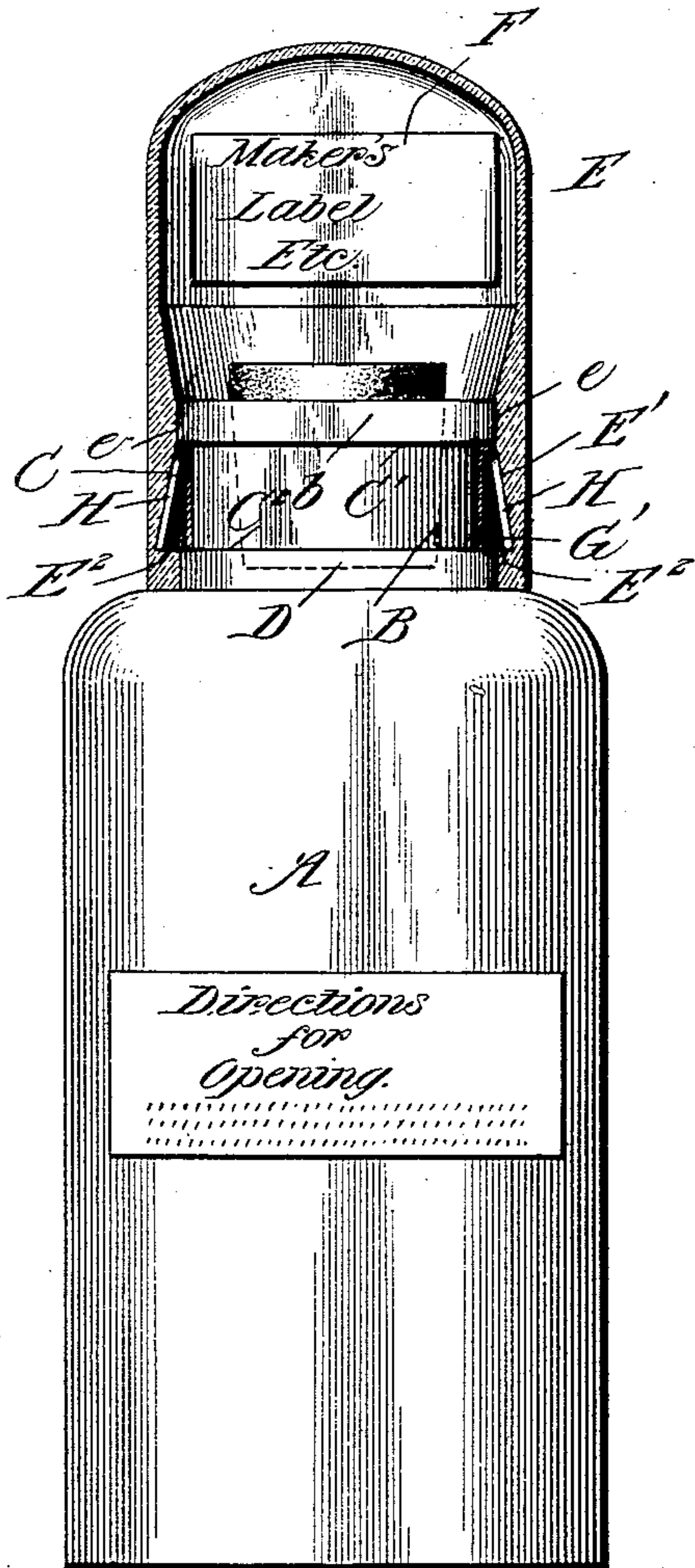


Fig. 2.

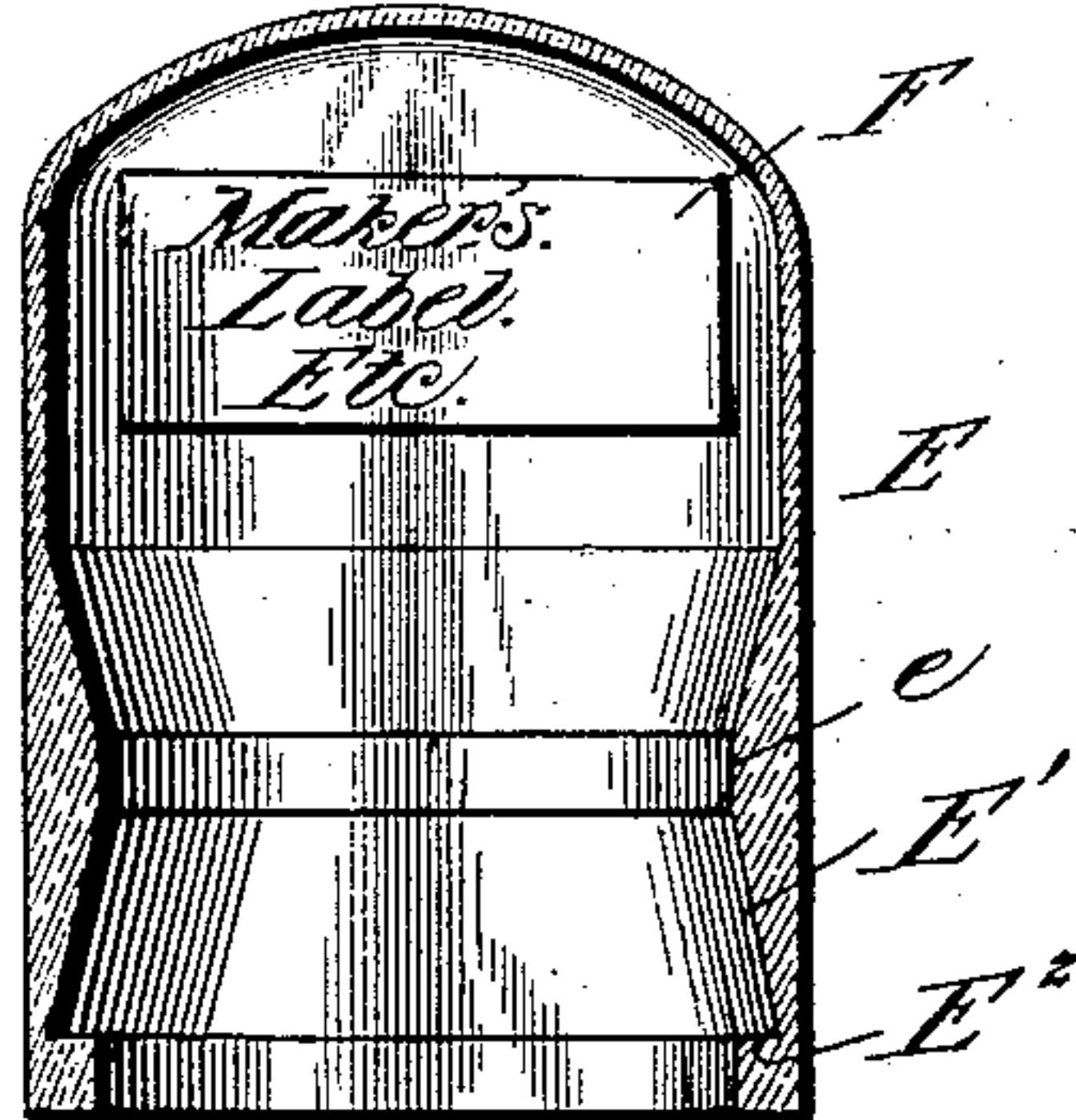


Fig. 3.

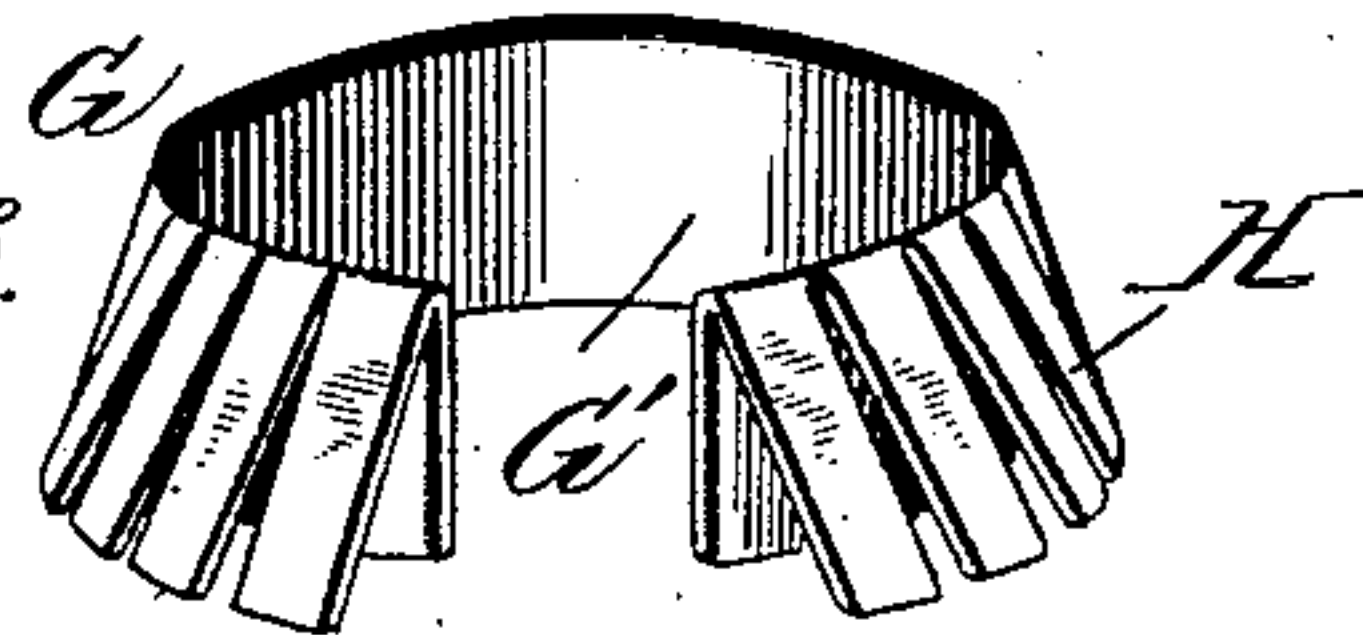
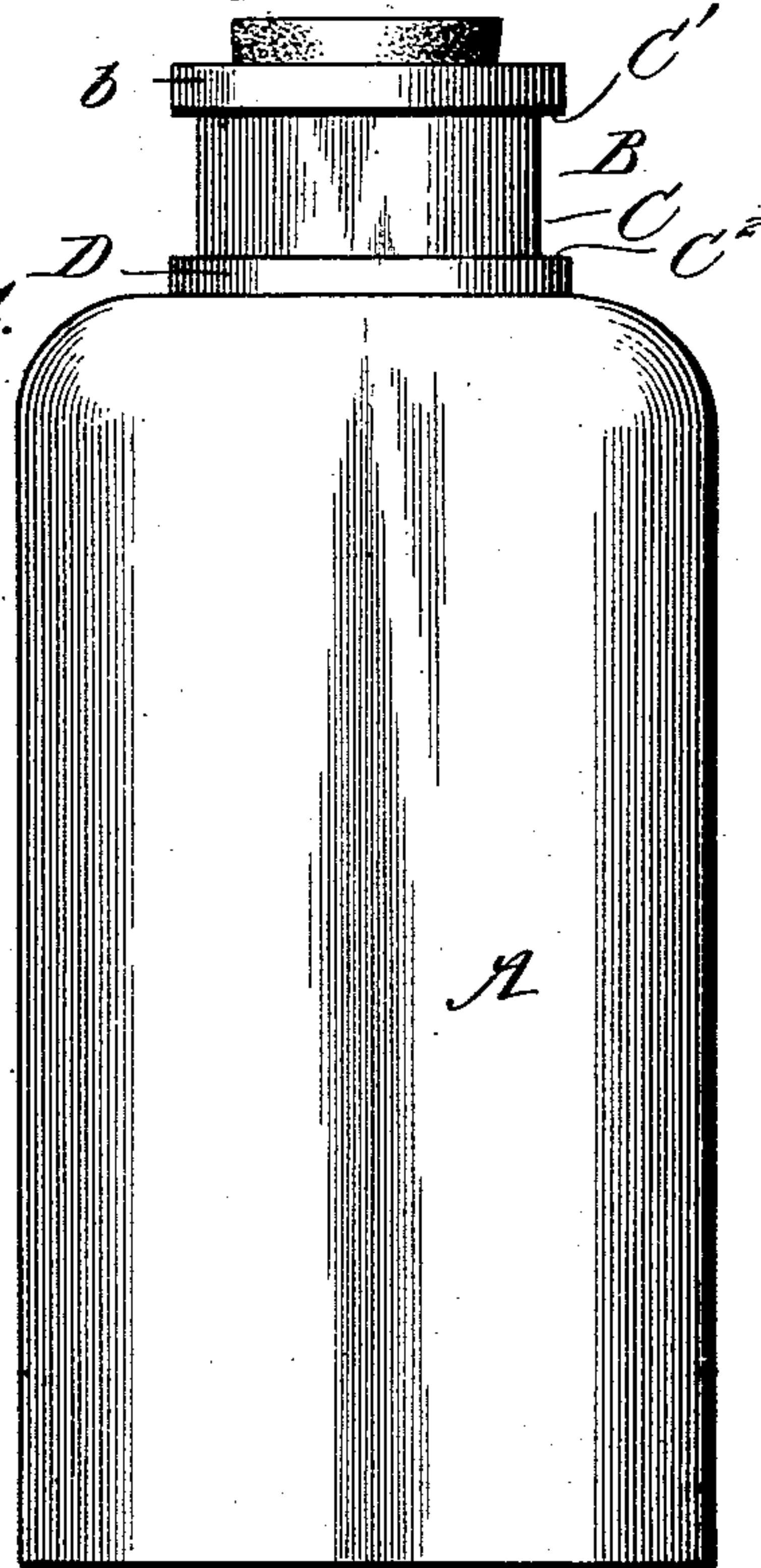


Fig. 4.



WITNESSES:

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BOTTLE.

SPECIFICATION forming part of Letters Patent No. 713,548, dated November 11, 1902.

Application filed July 29, 1902. Serial No. 117,531. (No model.)

To all whom it may concern:

Be it known that I, VIRGIL D. WHITE, a citizen of the United States, residing at Cottagegrove, in the county of Lane and State of Oregon, have made certain new and useful Improvements in Bottles, of which the following is a specification.

My invention is an improvement in bottle-closures, being in the nature of a non-refillable bottle or one in which the bottle will indicate whether it has been opened after leaving the original bottler, so that the contents of the bottle cannot be counterfeited; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is an elevation, partly in section, of a bottle provided with a closure embodying my invention. Fig. 2 is a detail sectional view of the cap. Fig. 3 is a detail perspective view of the locking device, and Fig. 4 is a side elevation of the bottle.

The bottle A may in general respects be of ordinary construction, but has a neck B, in which is provided a groove C, whose upper wall C' and lower wall C² are square, as shown in Figs. 1 and 4, and form seats for the inner plate or section of the locking device presently described, so the same will be held from movement in either direction along the neck of the bottle. The wall C² is also spaced above the upper end of the body of the bottle, forming a projecting portion D below the groove C, as will be understood from Fig. 4.

The cap E is formed to fit snugly over the neck of the bottle and to rest at its lower edge upon the lower end of the body of the bottle, as shown in Fig. 1. The cap is provided internally with a groove at E', which, as shown in Fig. 1, lies opposite the groove C and is sloped inwardly from its lower to its upper end and has at its lower end the square wall or shoulder E², which in practice stands opposite the shoulder C², as shown in Fig. 1. The cap E projects sufficiently above the stopper of the bottle to receive a label containing the maker's name and any other desired information, which label F may be pasted within the cap, as shown in Fig. 2, so the destruction of the cap will also result in the destruction of the label. The cap E is in

practice fitted over the neck, as shown in Fig. 1, and is then secured by the locking device G. (Shown in detail in Fig. 3 and applied in Fig. 1.) The locking device G is of a special construction, having the inner or main plate G', which fits in the groove C and extends circumferentially around the neck of the bottle and also extends between the upper and lower walls C' and C² of the groove C, so the locking device will be held from displacement in either direction when applied to the neck of the bottle, as shown in Fig. 1. The locking device G also includes the separated tongues H, integral with the main plate G' and extending from the upper edge thereof and downwardly and outwardly from the main plate of the locking device, as shown in Figs. 1 and 3.

In operation after the bottle has been suitably corked the locking device may be applied by fitting it within the groove C and the cap be fitted to place, compressing the tongues H until the shoulder E² stands in line with the shoulder C², when the tongues H will spring outwardly at their lower free ends into locking engagement with the shoulder E², and thus prevent the withdrawal of the cap E. It will be noticed that when the cap is applied it fits snugly around the upper flange of the neck of the bottle, the cap E being formed at e to fit such flange, as is best shown in Fig. 1. When the parts are applied as shown in Fig. 1, the cap will be firmly locked in place and can only be displaced by breaking it. In so doing the bottle may be turned upside down and the cap E, which is preferably of glass, be broken, so its fragments will fall away from the bottle. It will be noticed that my locking device includes inner and outer sections integral with each other and standing approximately in the same horizontal plane; also, that the main section of the locking device fits snugly within the circumferential groove in the neck of the bottle and that the said main plate is of the same length as the tongues H, so the latter can also be pressed into the groove C in adjusting the cap to locked position, and that all parts of the locking device are securely incased within the cap when the latter is applied for use. While I do not care to be limited in my invention to size or specific

shape or material, it is preferred in practice to make the locking device of thin steel, so that it may be readily adjusted around the neck of the bottle and its flaring outer sectional rim will spring readily to the position shown in Fig. 1 to lock the cap.

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

10 The combination substantially as herein described, of the bottle, having its neck provided externally with a circumferential groove having upper and lower square walls, the cap fitted over said neck and provided internally with
15 a groove opposite that of the bottle-neck and sloping outwardly toward its lower end and having at such end a square shoulder standing opposite the square lower wall of the groove in the bottle-neck, the cap being formed

to fit snugly around the upper flange of the 20 bottle-neck, and the locking device composed of the main plate formed to fit in the groove of the bottle-neck, and between the upper and lower walls thereof, and the outer tongues integral with said main plate and 25 bent downwardly and outwardly from the upper edge thereof, and of a length approximately equal with that of the main plate, and adapted to be sprung into the groove of the bottle-neck, and to spring outward into 30 engagement with the shoulder at the lower end of the groove in the cap, all substantially as and for the purposes set forth.

VIRGIL D. WHITE.

Witnesses:

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