

(No Model.)

F. WILLIAMS.

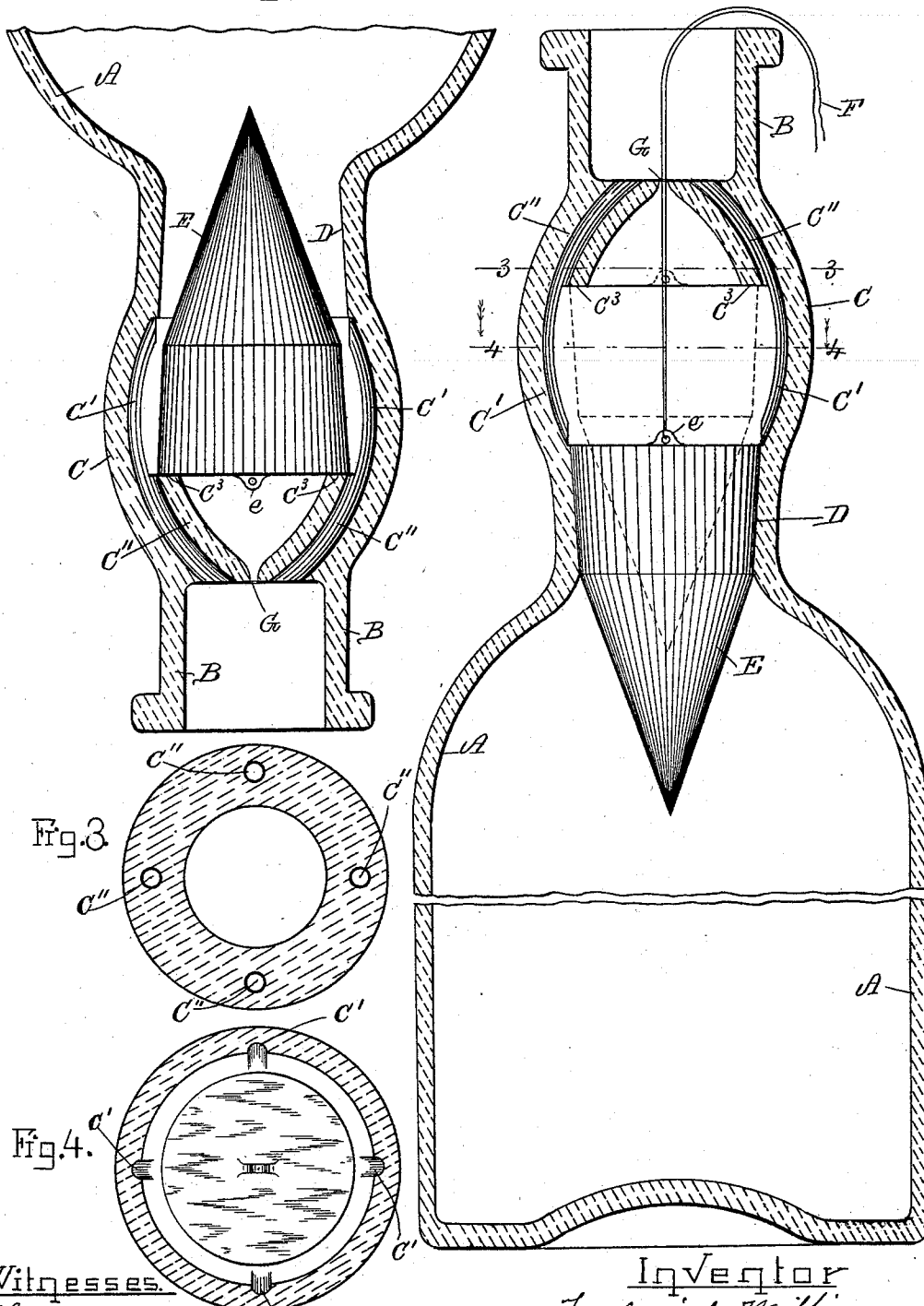
DEVICE FOR PREVENTING REFILLING OF BOTTLES.

No. 580,814.

Patented Apr. 13, 1897.

Fig. 2.

Fig. 1.



Witnesses

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UNITED STATES PATENT OFFICE.

FREDRICK WILLIAMS, OF BEACHMONT, MASSACHUSETTS.

DEVICE FOR PREVENTING REFILLING OF BOTTLES.

SPECIFICATION forming part of Letters Patent No. 580,814, dated April 13, 1897.

Application filed May 26, 1896. Serial No. 593,194. (No model.)

To all whom it may concern:

Be it known that I, FREDRICK WILLIAMS, a citizen of the United States, and a resident of Beachmont, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Devices for Preventing Refilling of Bottles, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in bottles designed to prevent refilling, and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a central longitudinal section of my improved bottle shown in an upright closed position. Fig. 2 represents a similar view showing the position of the bottle reversed. Fig. 3 represents a cross-section on the line 3 3, shown in Fig. 1; and Fig. 4 represents a similar cross-section on the line 4 4, shown also in Fig. 1.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

In the drawings, A represents a bottle having at its upper end a cork-receiving neck B, as shown. Below said neck B the neck has a swell or enlargement C, the lower portion of which terminates as a valve-seat D, as shown in the drawings. On said valve-seat is seated the valve E, preferably made of glass, and provided at its upper end with a perforated ear *e*, adapted to receive the looped thread or wire F, as shown in Fig. 1. The enlarged neck C is preferably provided on its interior with a series of grooves C' C', which are made to enter and continuous with channels C'' C'', leading to the neck B, as shown. At the lower end of the channels C'' there is an abutment C³, which serves as a rest for the valve-plug E when the position of the bottle is reversed, as shown in Fig. 2.

In filling the bottle the valve-plug E is pulled upward against the abutment C³ by means of the cords or wires F, allowing the

liquid to flow through the channels C'' C'' into the bottle, and when the latter is filled the cord F is drawn through the eye *e* and removed from the plug E, thus leaving the latter seated on the seat D, as shown in Fig. 1. When the bottle is reversed, as shown in Fig. 2, the plug E falls onto the abutment C³, allowing a portion of the contents of the bottle to escape through the channels C'' and neck B. As soon as the bottle is returned to its normal position (shown in Fig. 1) the valve-plug E is caused by gravity to close against its seat D, as shown in said Fig. 1, thus preventing the bottle from being refilled, owing to the fact that the plug E cannot be raised from its seat from without on account of the orifice G, through which the cords or wires F are guided, being so small as to prevent any tool for raising the valve E from its seat to be introduced through such orifice.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent and claim—

The herein-described device for preventing the refilling of bottles, consisting of the bottle A, having a cork-receiving neck B at its upper end, and an enlarged portion C, below said neck with grooves C' upon its interior, a channeled abutment C³ within the said enlarged portion of the neck, the channels in said abutment registering with the grooves in the neck, a valve-seat D below said enlarged portion, a valve E resting in said seat, and an ear *e* carried by the valve and adapted to receive a thread or wire which is arranged to pass through a contracted opening in the abutment, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 13th day of April, A. D. 1896.

FREDRICK WILLIAMS.

Witnesses:

ALBAN ANDRÉN,
LAURITZ N. MÖLLER.