

(No Model.)

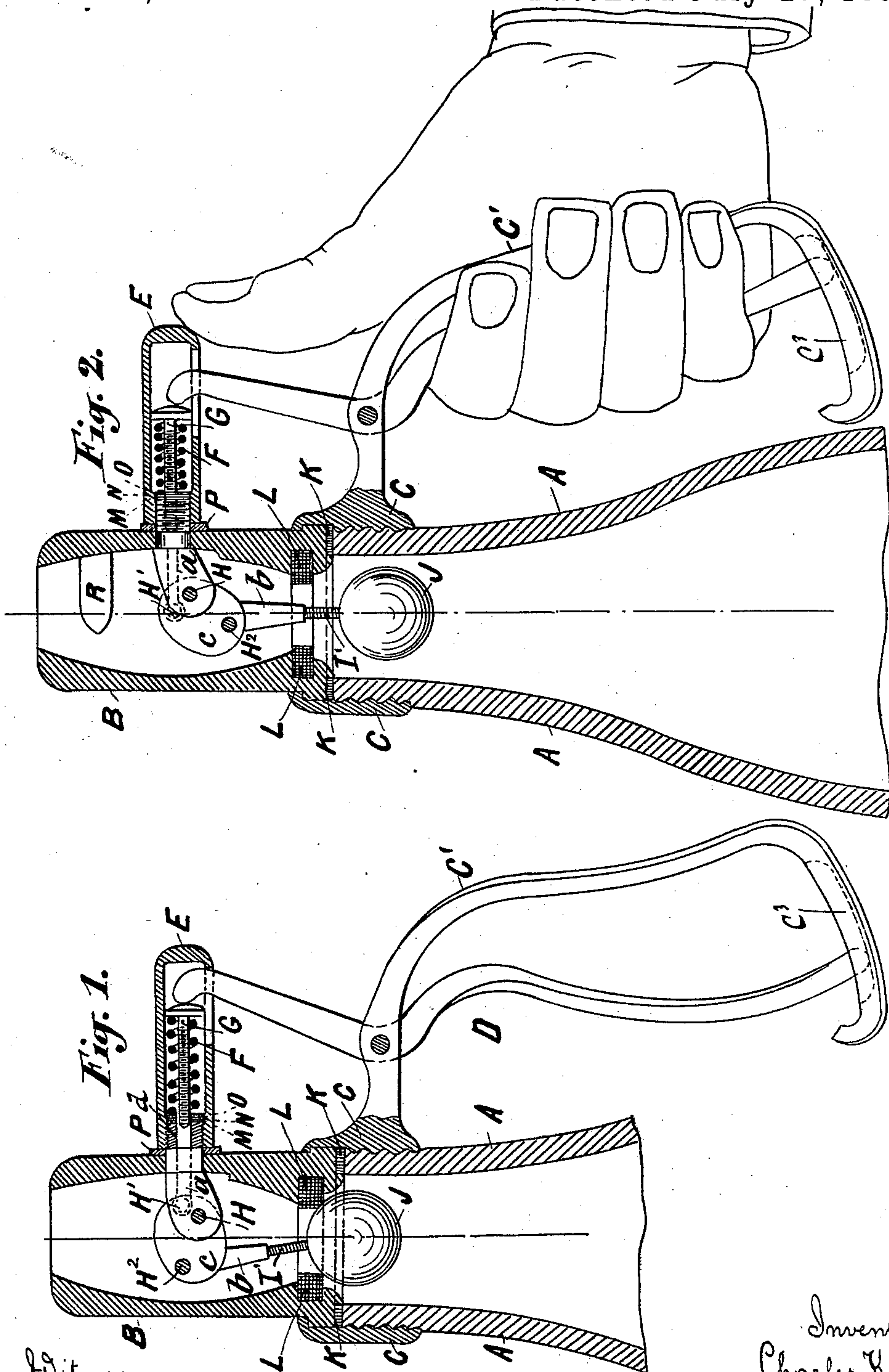
2 Sheets—Sheet 1.

C. KEMPER.

BOTTLE AND STOPPER FOR AERATED DRINKS.

No. 586,971.

Patented July 27, 1897.



Witnesses

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E. A. Scott

Inventor
Charles Kemper

by *Deuicard R*
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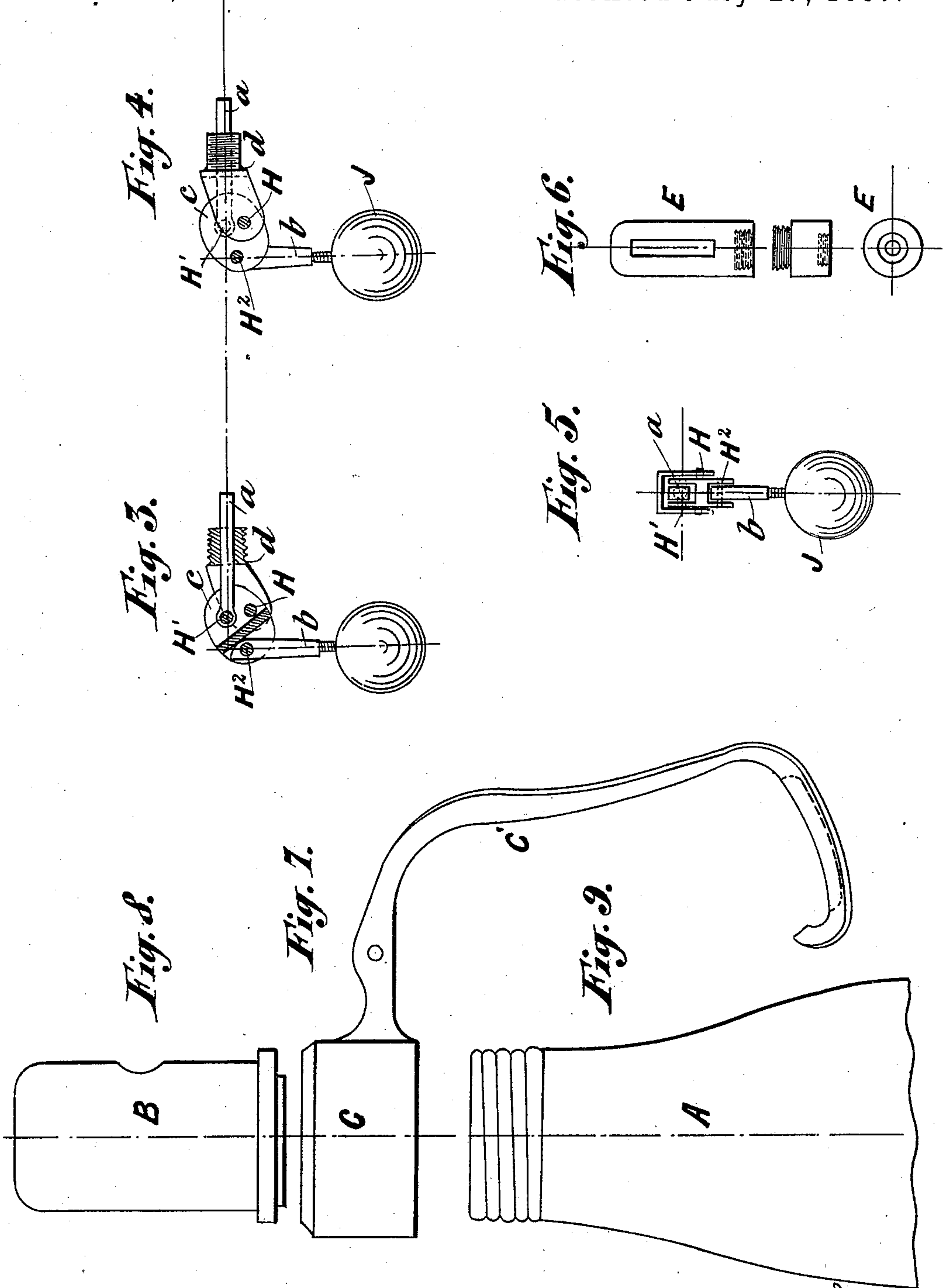
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UNITED STATES PATENT OFFICE.

CHARLES KEMPER, OF BRUSSELS, BELGIUM.

BOTTLE AND STOPPER FOR AERATED DRINKS.

SPECIFICATION forming part of Letters Patent No. 586,971, dated July 27, 1897.

Application filed February 28, 1896. Serial No. 581,152. (No model.)

To all whom it may concern:

Be it known that I, CHARLES KEMPER, residing at Brussels, in Belgium, have invented certain new and useful Improvements in or
5 Relating to Bottles and Stoppers for Aerated Drinks, of which the following is a specification.

In the ball-stoppers of bottles especially intended for carbonated beverages the opening
10 thereof has always been difficult because the ball had first to be pressed into the bottle with great force, and when it was desired to empty the bottle said ball located easily against the packing-ring, thus closing the
15 same again.

The present invention relates to such a stopper, but in which the ball is not located in the neck of the bottle itself, but fixed in a separate cap, the bottle being opened and
20 closed by a suitable mechanism connected thereto.

In the accompanying drawings, Figures 1 and 2 show in section a bottle containing my improvements. Figs. 3 to 9 show details of
25 construction.

A suitably-shaped cap B is fixed upon the neck of the bottle A of uniform width by means of a covering-nut C and an intermediate packing-ring K. A rubber ring L, against which the ball J presses, is inserted
30 in a groove of the cap. This ball can be made of glass and is provided with a metallic screw-pin I'. At about half its height the cap B is perforated at one side, and a longitudinal socket E, with a packing-disk P, is secured to the cap at this point. This socket
35 is held by a bolt H, which presses against the inside surface of the cap by means of a projecting surface and is screwed to said cap by means of a threaded part d, Fig. 1. The bolt H is flattened at one extremity and flexibly connected with a piece c by means of a pin, which
40 part c is coupled flexibly with a short rod b. The latter is provided with a notch, into which the screw I' of the ball J is screwed. The longitudinal axle of the threaded part of the bolt H is perforated, and a rod is located therein consisting of two parts G and a, screwed together. This rod catches the part
45 C of the stopper by means of an ear. As shown in Fig. 3, the pivotal points of the

part c are arranged so that it can serve as a double lever when it is turning around the pin of the bolt H as a fixed point. The distance between this point and the two others
55 is in such case considered as the arms of the angle-lever. Above in the socket E the rod G is provided with a press-button, and the spring F always tends to make it go outward. The socket E consists also of two
60 parts and is provided with several washers M N O for the spiral spring.

By depressing the rod G the angle-lever c will swing on its pivot and the bottle will be opened, as shown in Fig. 2. 65

In order to effect this motion, I have provided a hand-lever D, pivoted to the handle C', which is in one piece with the nut C. Its free extremity is guided in a recess C³, while its other arm enters the socket E through a
70 slot and can operate the button of the rod G.

The various detail parts are shown in Figs. 3 to 9, inclusive. The rod G constitutes a laterally-extending plunger for operating the pivoted piece c. 75

I claim—

1. In combination, the bottle, the detachable cap, the collar for securing the cap to the bottle, the handle carried by the said collar, the ball within the bottle-neck, the pivoted support for the ball, the lever pivoted
80 to said handle, and connections from the lever to the pivoted support, substantially as described.

2. In combination, the bottle, the cap, the collar for detachably connecting the cap to the bottle-neck, the handle carried by said collar, the ball within the bottle-neck, the pivoted support for the ball, the laterally-moving spring-pressed plunger passing through
85 an opening in the cap and connected with the pivoted support and the lever pivoted to the handle and bearing against said plunger, substantially as described. 90

In testimony whereof I have set my hand
95 in the presence of the two subscribing witnesses.

CHARLES KEMPER.

Witnesses:

ALFRED WUNDERLICH,
GREGORY PHELAN.