(No Model.) 2 Sheets—Sheet 1.

G. A. FULLERTON.

BOTTLE STOPPER.

No. 395,558. Patented Jan. 1, 1889.

Fig. 4.

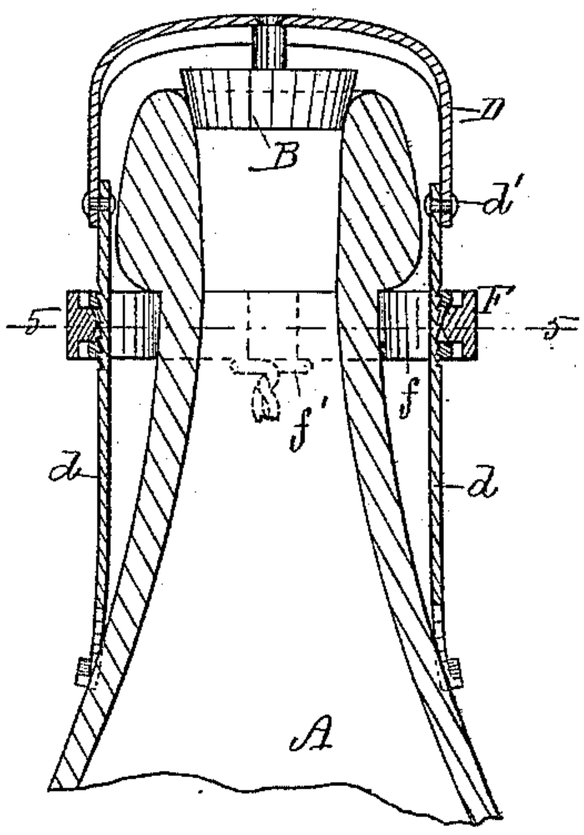


Fig. 1.

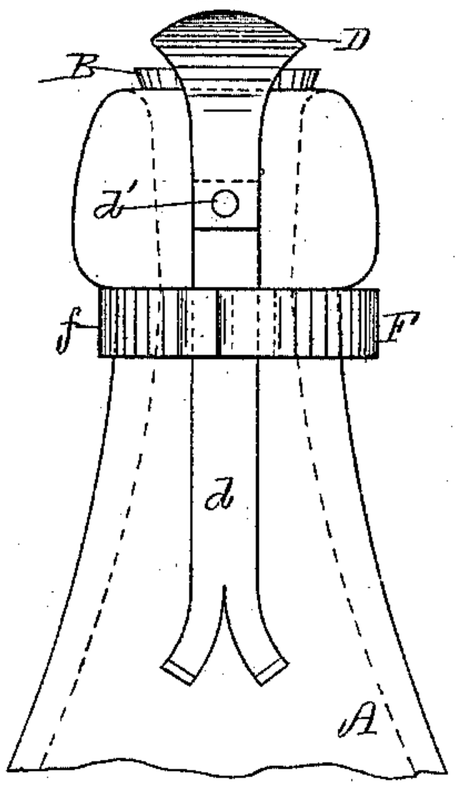


Fig. 6.

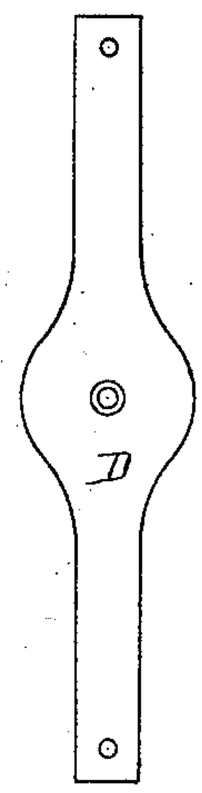


Fig. 5.

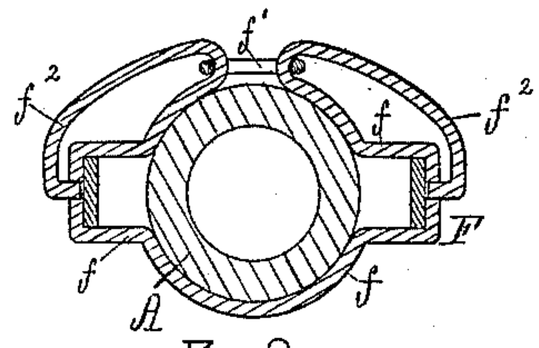


Fig. 3.

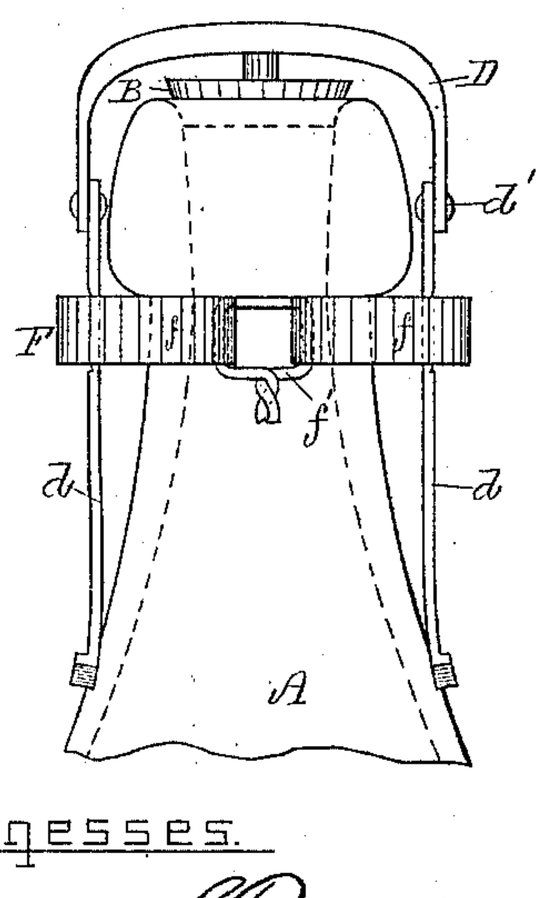


Fig. 7.

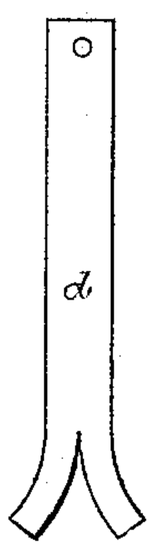
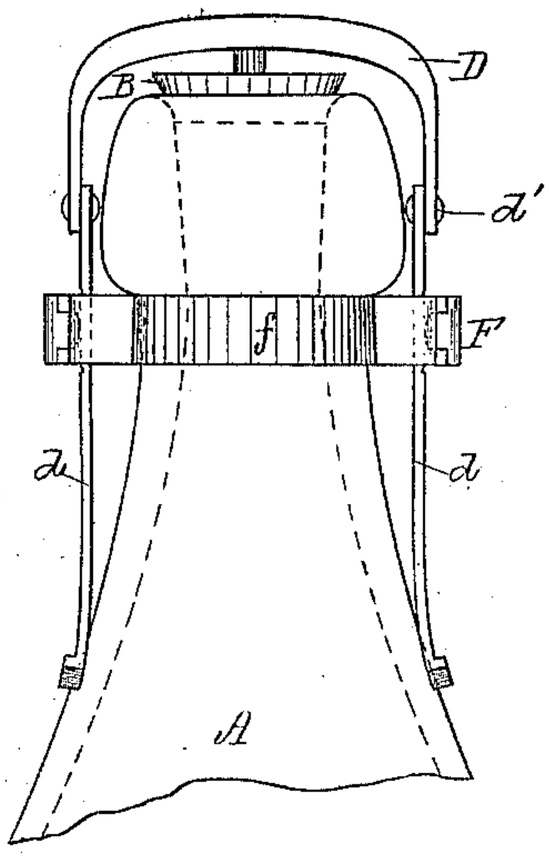


Fig. 2.



Witnesses.

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by his attorney.

J. L. Macpherson

(No Model.) 2 Sheets—Sheet 2.

G. A. FULLERTON.

BOTTLE STOPPER.

No. 395,558. Patented Jan. 1, 1889.

Fig. 10.

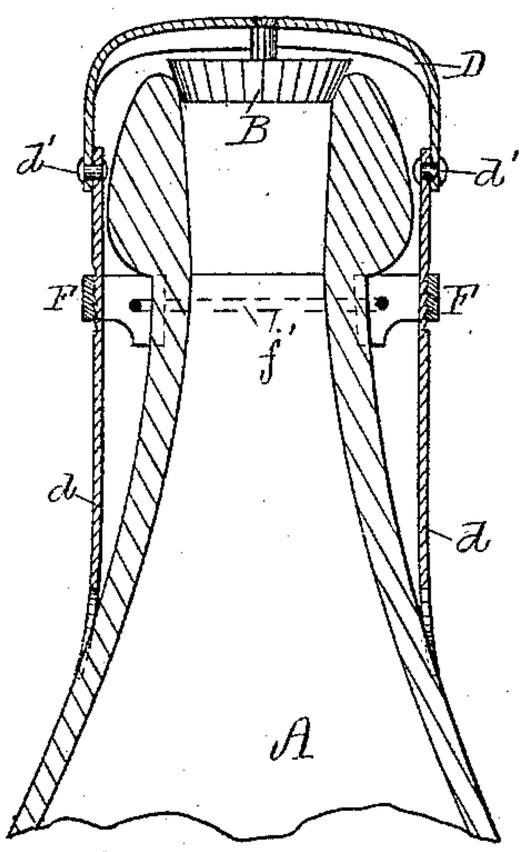


Fig. 8.

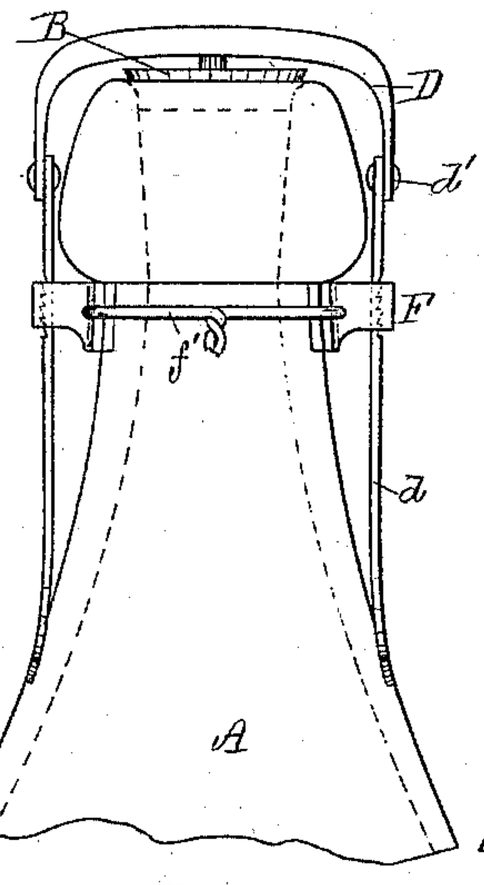


Fig. 9.

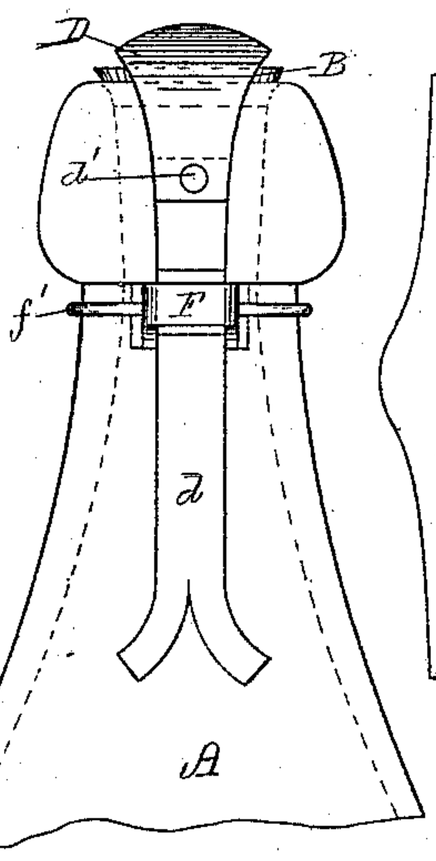


Fig. 16.

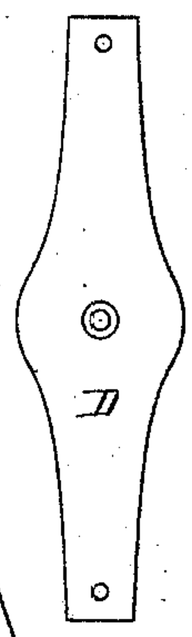


Fig. 17.

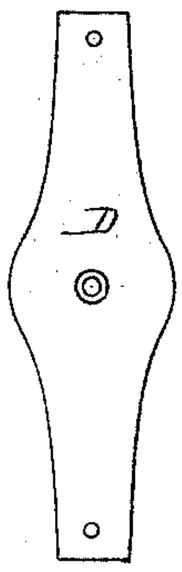


Fig. 11.

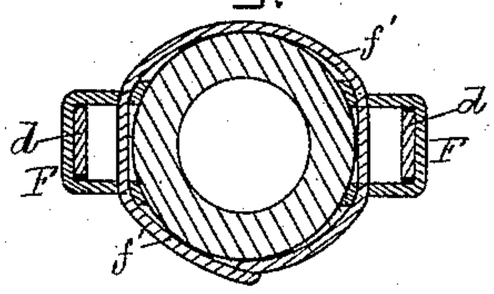


Fig. 12.

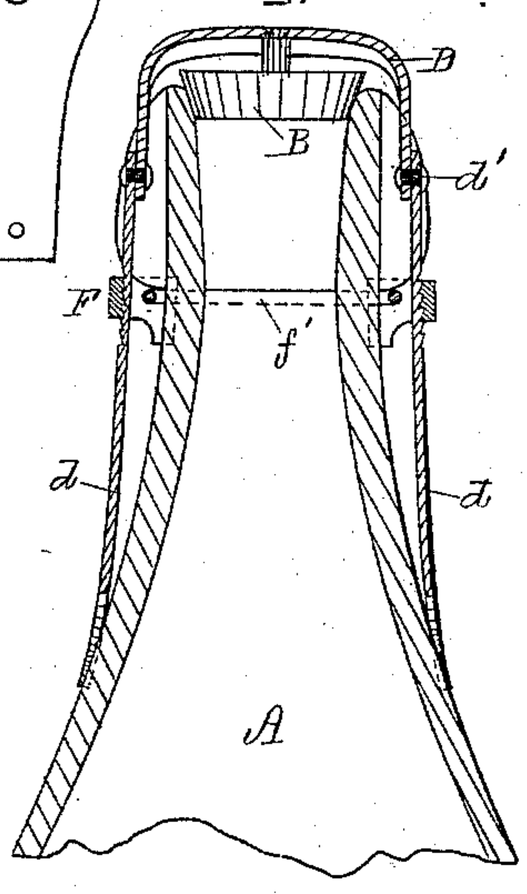


Fig. 13.

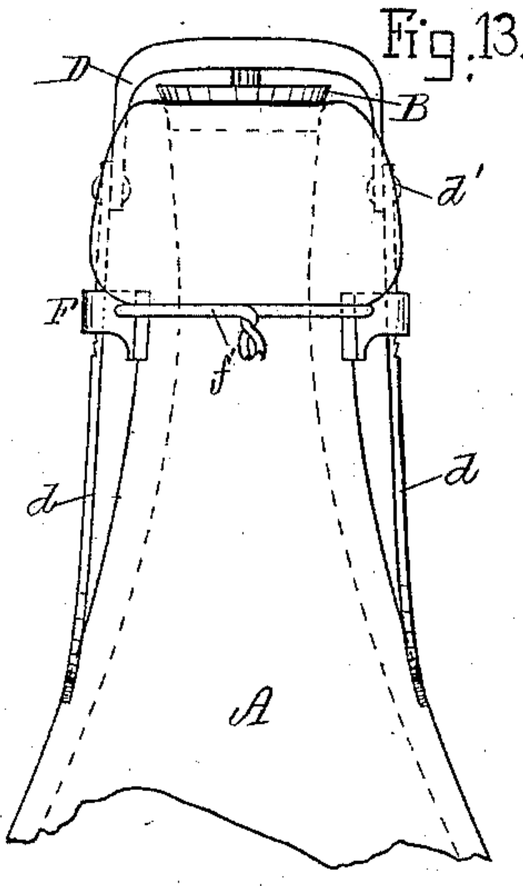


Fig. 14.

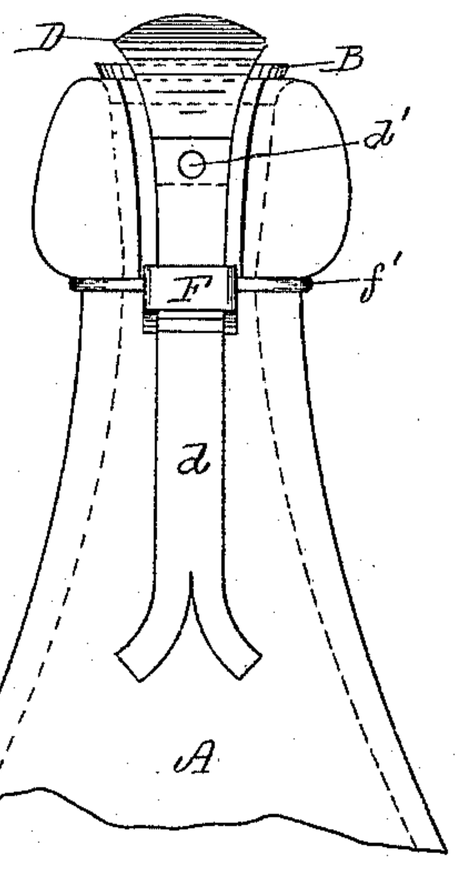
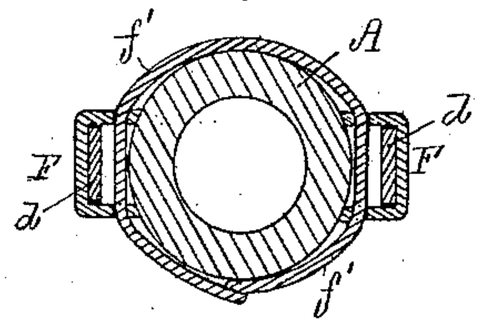


Fig. 15.



Witnesses:

Edward S. Beach,

John R. Snow.

Inventor:

George A. Fullerton,
by his attorney,
J. E. Maynadier

UNITED STATES PATENT OFFICE.

GEORGE A. FULLERTON, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE FACILE BOTTLE STOPPLE COMPANY, OF NEW YORK.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 395,558, dated January 1, 1889.

Application filed February 4, 1888. Serial No. 262,973. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. FULLERTON, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Bottle-Stopper, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figures 1, 2, and 3 are side elevations; Fig. 4, an axial section; and Fig. 5 a cross-section on line 5 5 of Fig. 4, illustrating one form of my new bottle-stopper. Figs. 6 and 7 are details showing the sheet-metal blanks used. Figs. 8 and 9 are side elevations, and Figs. 10 and 11 an axial and a transverse section of a modification. Figs. 12, 13, 14, and 15 illustrate by like views another modification. Figs. 16 and 17 illustrate the sheet-metal blanks used in these two modifications.

My invention is a bottle-stopper composed of a bail for holding the stopple in place and having catches upon its legs, which are so combined with a holding device secured to the neck of the bottle that the legs of the bail are caught and held when the bail is thrust down, so as to bring the stopple into place in the neck of the bottle, the legs being freed from the holding device by simply springing them away from the catches.

In the drawings, A is the bottle; B, the stopple; D, the bail, and F the holding device, with which the legs *d* of the bail engage and are held.

In Figs. 1, 2, 3, 4, and 5 the holding devices F F are made integral with a strip of sheet metal, *f*, which surrounds the bottle and which is secured to the bottle by the wire *f'*, while the ends f^2, which project beyond the wire *f'*, are bent back and serve as finger-pieces, by means of which the legs *d* of the bail may be freed from the holding devices F. In this form of my bottle-stopper the legs *d* of the bail are spread at their lower ends, so that they are always held to the bottle by the devices F, and for that reason I hinge the legs to the bail at *d'*; but, as will be obvious, the simplest form of my device is a U-shaped piece of wire with teeth formed upon its legs to engage with the catch F, secured to the neck of the bottle, the bend of the U-shaped piece of wire being embedded in the cork stopple, or otherwise properly secured to the stopple.

It will be seen that the form shown in Figs. 8, 9, 10, and 11 is the same as that above described, except that the catches F are separate pieces secured to the bottle by a wire, *f'*. In the forms shown in Figs. 12, 13, 14, and 15 the head of bottle A is grooved, thereby making the device more compact. Moreover, in these two modifications the finger-pieces f^2 are omitted, the legs of the bail being disengaged from the catches by the application of the finger and thumb directly to the legs. While I prefer to make the bail from sheet metal and of three pieces, as illustrated in Figs. 6, 7, 16, and 17, yet this is a mere detail of construction, as is also the manner of connecting the stopple to the bail.

It will be seen that the bottles may be stoppled with very great rapidity, all that is necessary being a single downward motion of the hand, pressing the stopper home, and that the bottle may be readily unstoppled by pressure properly applied to disengage leg *d* from catch F, and also that my device is cheap in construction and very simple and effective in operation.

What I claim as my invention is—

1. The bottle-stopper above described, composed of the bail D, with spring-legs *d*, and the holding device F, fast to the bottle, the legs of the bail extending down through the holding device and springing outwardly, as and for the purpose specified.

2. In a bottle-stopper, the combination of stopple B, with bail D, having its legs *d* hinged at *d'*, and holding device F, all substantially as described.

GEORGE A. FULLERTON.

Witnesses:
WM. F. DUNCAN,
A. P. SMITH.