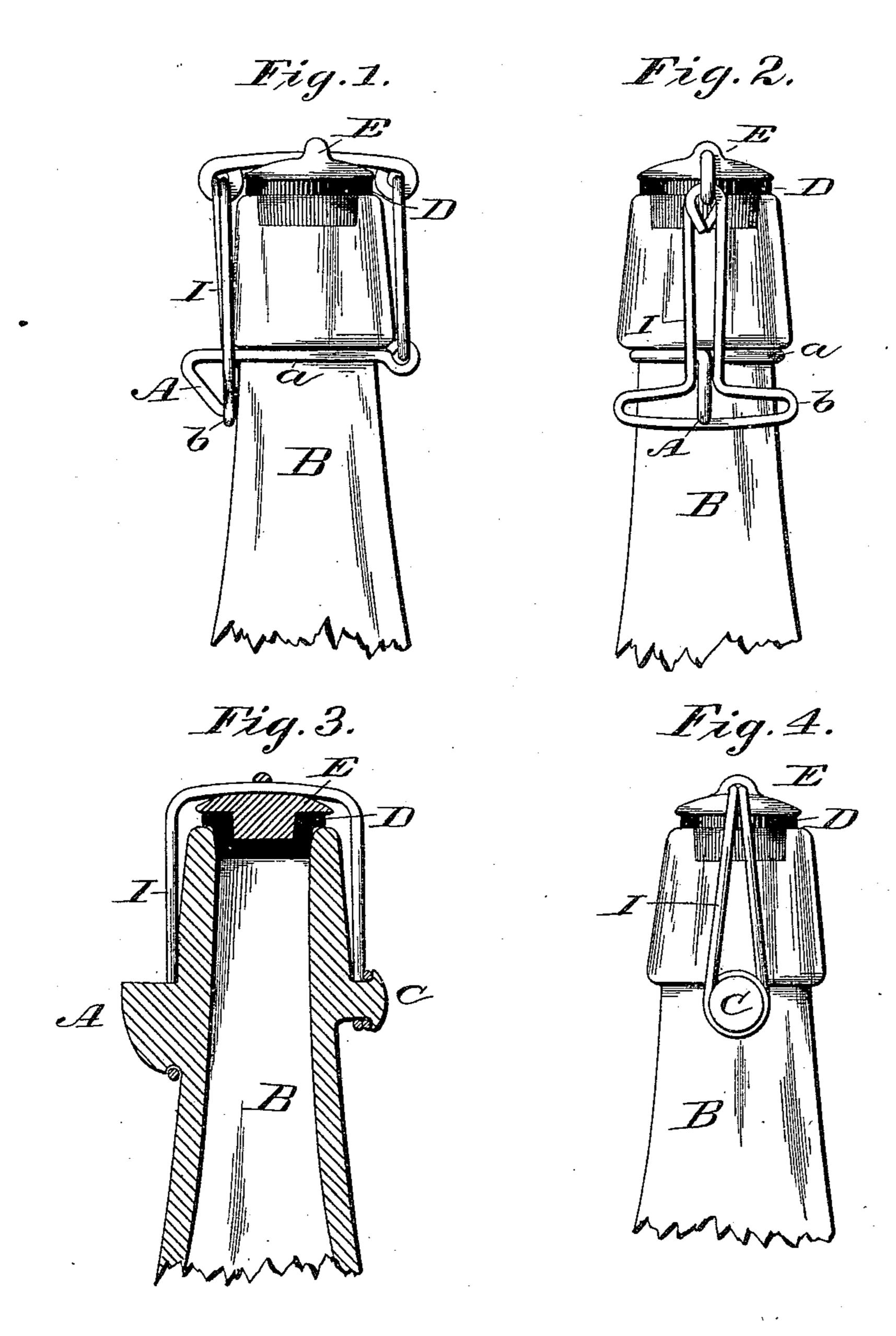
(No Model.)

O. E. MICHAELIS.

BOTTLE STOPPER.

No. 270,601.

Patented Jan. 16, 1883.



Witnesses: Jas, F, Allaniel.

Inventor: O. b. Michaelis. by Dodgesson Attyp.

United States Patent Office.

OTHO E. MICHAELIS, OF PHILADELPHIA, PENNSYLVANIA.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 270,601, dated January 16, 1883. Application filed October 16, 1882. (No model.)

To all whom it may concern:

Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented cer-5 tain Improvements in Bottle-Stoppers, of which

the following is a specification.

My invention relates to that class of bottlestoppers used on beer-bottles and the like; and the invention consists in the combination ro of a lug attached to or made upon the neck of the bottle with an incline on its under surface, with an elastic stopper, and a loop or bail having lateral projections at its free end, all as hereinafter more fully set forth.

Figure 1 is a side elevation showing my improvement, and Fig. 2 is a similar view taken at a right angle to Fig. 1 in order to more fully show the thumb-piece. Fig. 3 is a transverse vertical section, and Fig. 4 a side elevation 20 showing the incline formed integral with the

bottle.

The object of this invention is to produce an efficient bottle-stopper that shall be simple of construction and easy of operation. To ac-25 complish these results I use an elastic cork or stopper, which may consist of a metallic cap, E, with a soft-rubber portion, D, attached, as shown, this being a form of stopper well known. This is secured loosely to a wire loop or bail, 30 I, the rear end of which may be secured to the neck of the bottle by means of a wire, a, as shown in Fig. 1, while its opposite end is formed into a loop having a lateral projection, b, on each side, as shown in Fig. 2. The wire a is 35 secured firmly to the neck of the bottle, and on the side opposite to the point where the bail is attached it is so bent as to form an inclined projection, A, as shown in Fig. 1. With the parts thus arranged it will be seen that 40 all that is necessary to secure the stopper firmly in place is to force or draw the loop btoward the neck of the bottle, in which case it will be drawn down by the incline until it has passed its lower point, and will rest in a 45 slight recess between the lower edge of the incline and the neck of the bottle, which will lock or hold it securely in place. To release it it is only necessary to take the bottle in the hand and by applying the two thumbs to the 50 projecting ends of the loop b shove it out of the recess.

In Figs. 1 and 2 I have shown the bail I as being composed of three parts hinged or hooked to each other; but, if preferred, it may be made 55 of a continuous piece of wire, as represented i

in Figs. 3 and 4, and be secured to the wire a, Be it known that I, O. E. MICHAELIS, of | which surrounds the neck, the same as in Fig. 1. So, too, instead of forming the incline A, as shown in Figs. 1 and 2, of a separate piece of wire or metal and securing it to the neck of 60 the bottle, it may be formed of glass integral with the neck by molding it thereon when the bottle is made. In that case I also propose to form a stud, C, also of glass, on the opposite side of the neck, to which the rear end of the 65 bail I may be secured, as shown in Figs. 3 and 4; or, instead of a round stud, as there shown, it may be made with a hole through it, through which the wire composing the bail may be passed, in the same manner as it is shown 70 passed through the eye of wire a in Fig. 1; or either one of these alone may be formed integral with the neck of the bottle, and the other be made separately, of any suitable material, and be secured thereto; or, if preferred, the 75 incline A and the stud or eye for securing the bail may be formed on a flat band of metal, which may then be clasped around the neck of the bottle in a manner similar to the wire a. (Shown in Fig. 1.) By making the bail of 80 a continuous piece of wire, as in Figs. 3 and 4, a smaller wire may be used, thus reducing the cost of manufacture, both by reason of the smaller quantity of metal required, and also by reason of there being a less number of 85 joints and bends to make in it, thereby correspondingly reducing the time and labor required to make them.

I am aware that many forms of bottle-stoppers have been patented in which eccentrics 90 and levers in various forms are used to compress the stopper and hold it in place; and I am also aware that a patent has been granted for a device in which there is a lug on the side of the neck which holds the bail in one posi- 95 tion while the bottle is being filled, and which holds it down after the filling is completed, and therefore I do not claim such; but,

Having fully described my invention, what I claim is—

In combination with a bottle provided with a lug, A, having its under surface inclined, as shown, an elastic stopper, D, and the loop or bale I, provided with the lateral projections b, all constructed and arranged to operate sub- 105 stantially as described.

OTHO ERNEST MICHAELIS.

Witnesses:

URBAN GEBHAET, CHAS. S. AITKEN.