

No. 681,104.

Patented Aug. 20, 1901.

H. P. H. CLASEN.  
BOTTLE CLOSING DEVICE WITH CORK STOPPER.

(Application filed June 28, 1900.)

(No Model.)

Fig. 1.

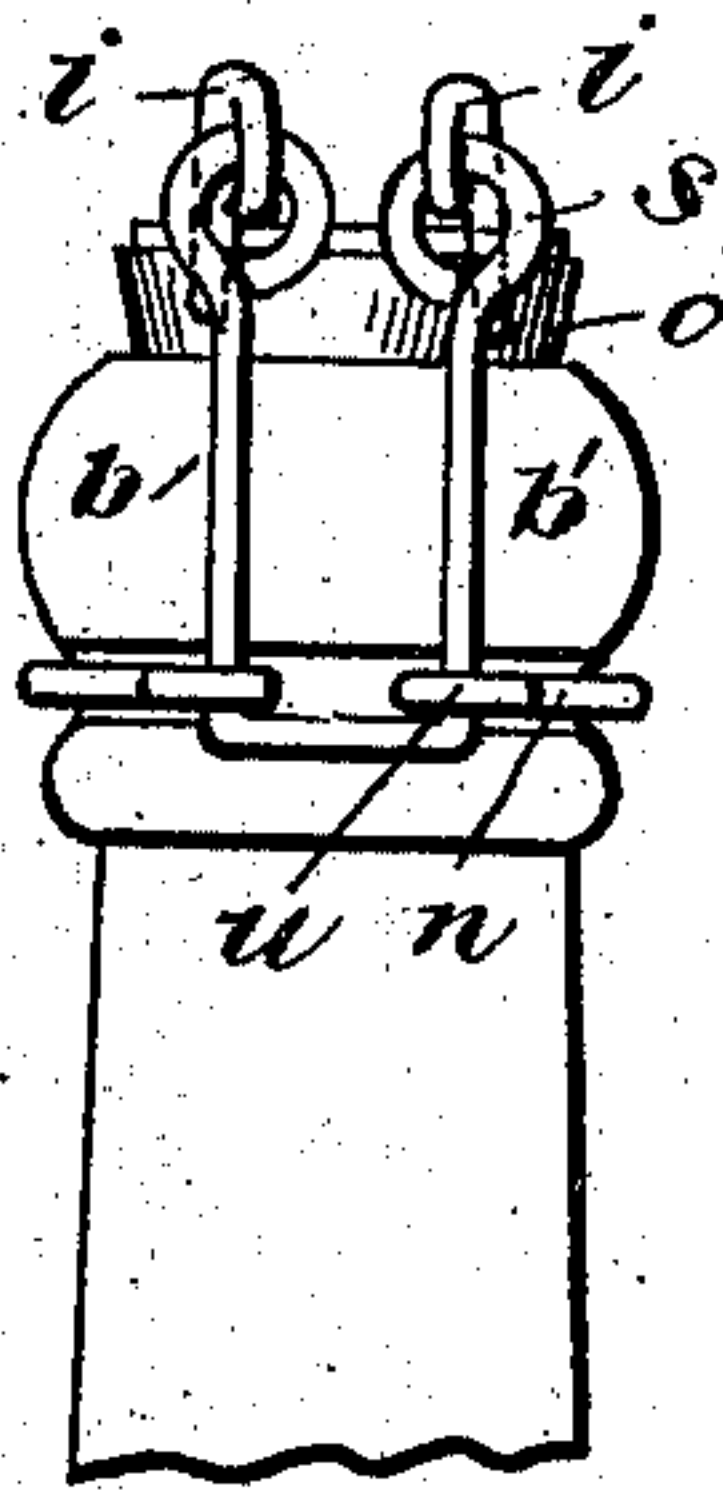


Fig. 2.

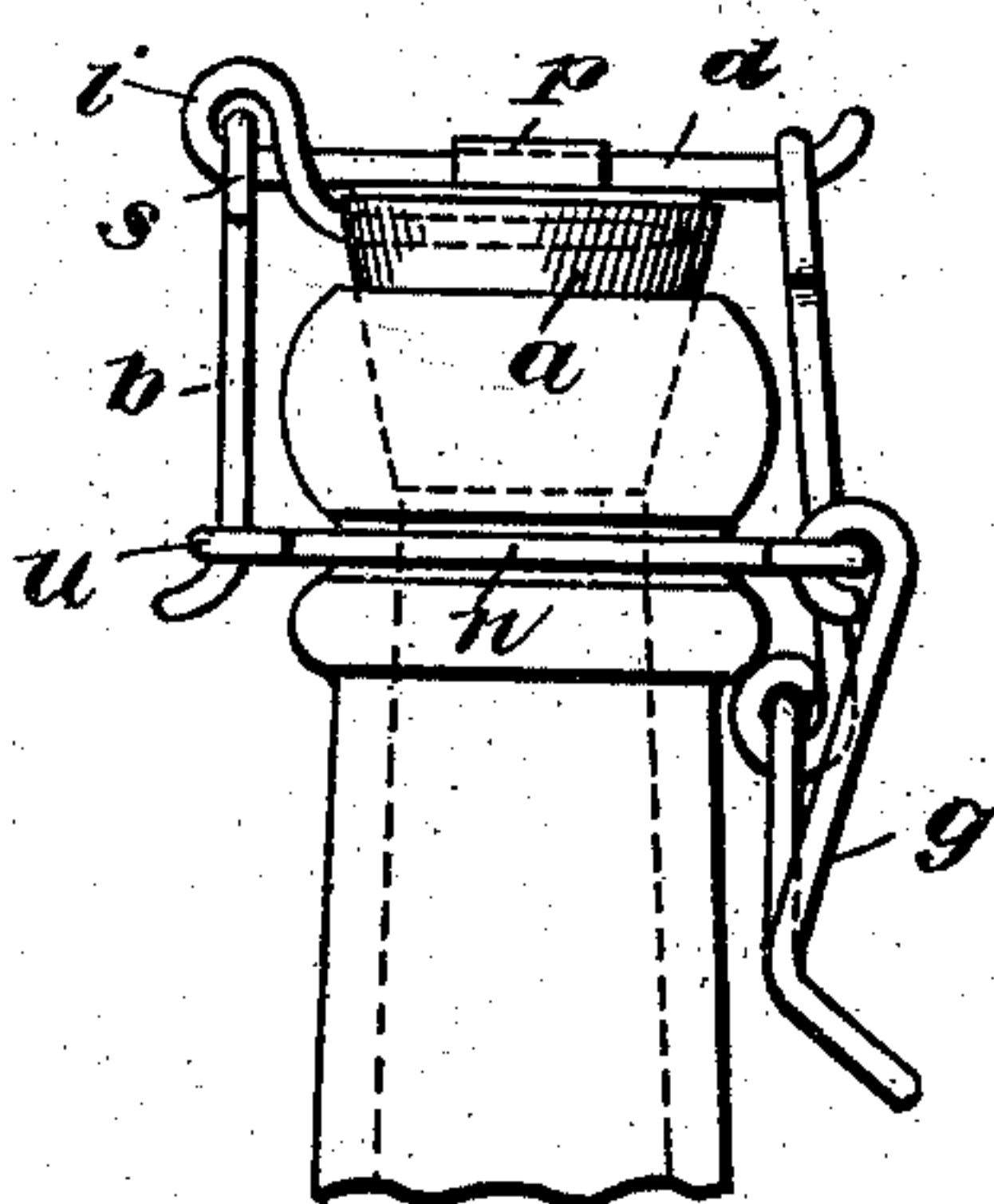


Fig. 3.

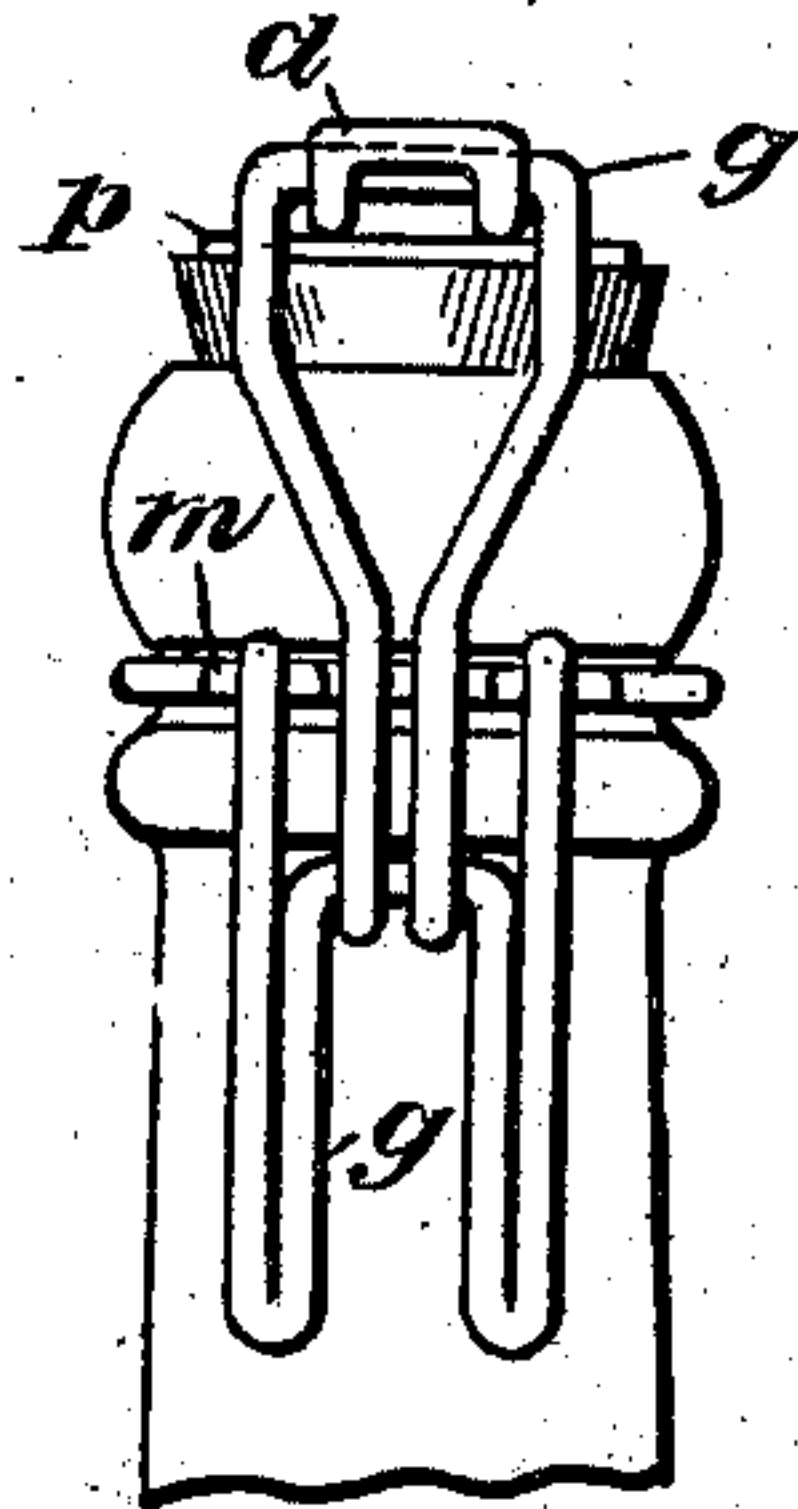


Fig. 4.

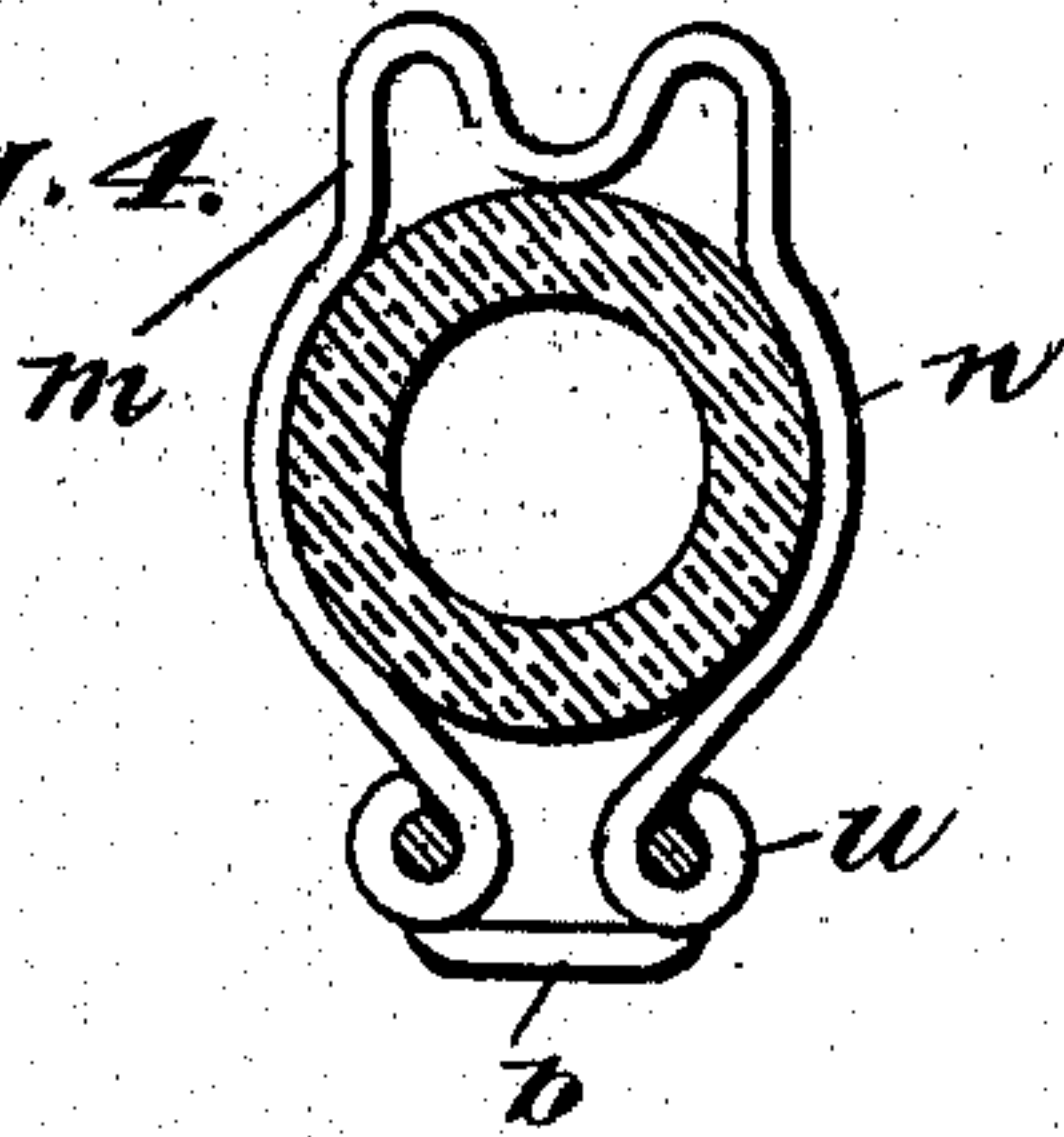


Fig. 5.

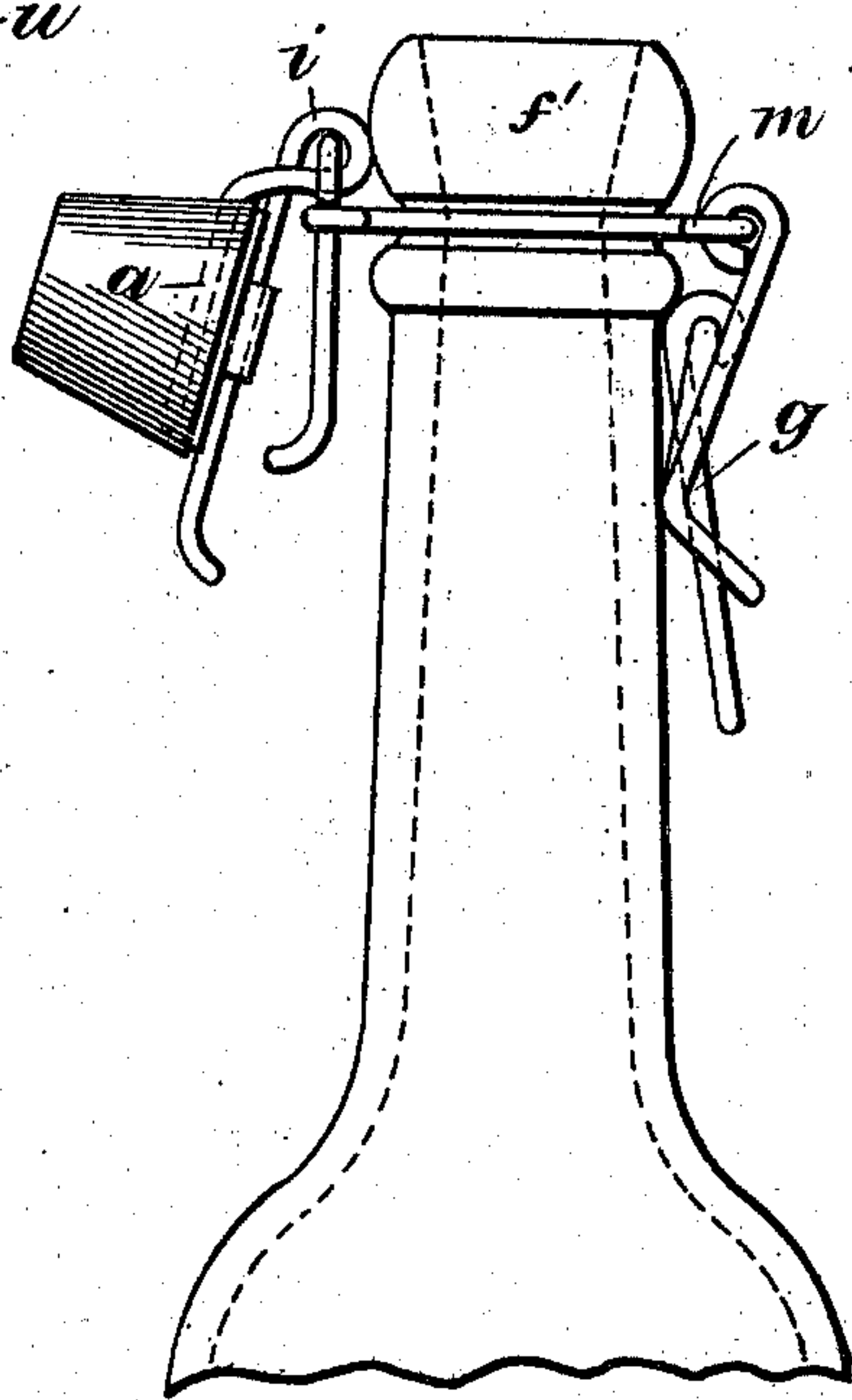
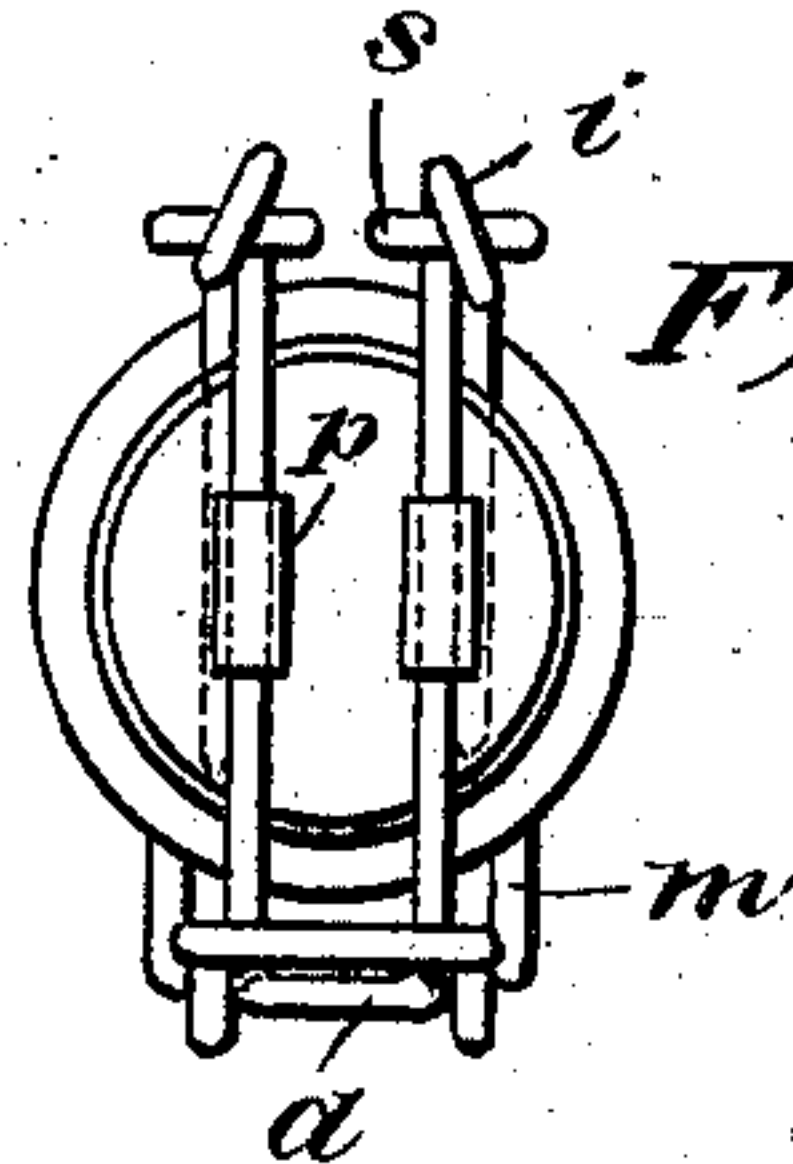


Fig. 6.



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# UNITED STATES PATENT OFFICE.

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## BOTTLE-CLOSING DEVICE WITH CORK STOPPER.

SPECIFICATION forming part of Letters Patent No. 681,104, dated August 20, 1901.

Application filed June 28, 1900. Serial No. 25,893. (No model.)

*To all whom it may concern:*

Be it known that I, HANS PETER HINRICH CLASEN, a subject of the Emperor of Germany, residing at Südergraben No. 3, Flensburg, Germany, have invented certain new and useful Improvements in Bottle-Closing Devices with Cork Stoppers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

In devices for closing bottles it is customary to employ a plug of glass or porcelain with a gasket of rubber or similar material, which is pressed against the mouth of the bottle. A closure of this kind is, however, always apt to accumulate dirt and unhealthy germs. Moreover, such a closure cannot be tight when the mouth of the bottle is not quite smooth and as often is the case parts of the glass have been broken out and the bottle has not been withdrawn from use. The present invention is intended to obviate these inconveniences.

The new device is shown in the accompanying drawings, forming a part of this specification.

Figure 1 shows the device in a rear elevation. Fig. 2 is a side elevation. Fig. 3 is a front elevation. Fig. 4 is a cross-section through the bottle-neck, showing the main supporting-ring. Fig. 5 shows the device when open. Fig. 6 is a top view.

The main feature in the present invention consists in the substitution of a conical cork stopper for the ordinary porcelain plug and rubber gasket. The stopper is secured on a wire *d*, which is bent, as shown, in such a way that two bars run parallel across the stopper, whereupon the wire is bent in the shape of eyes *i*, and then each end is run back parallel to the aforesaid bars a slight distance under the same. The ends are preferably tapered and pointed, so that they can be stuck easily into the cork of a stopper. A thin metal plate *p* can be secured under the bars *d* to prevent their embedding in the cork either by soldering or by bending part of the metal around the bars, as shown. The eyes *i* are linked into the eyes *s* of another metal wire strap *b*, bent into two parallel bars, which are run through the eyes *u* of the

main supporting-strip *n*, which is secured in a groove of the bottle-neck in the well-known manner. It is evident that the eyes *i* can be turned in the eyes *s*, and thus the stopper *o*, supported by the wire *d*, can be thrown back. It will also be understood that the rear strap *b* can be lowered in the eyes *u* until the eyes *s* come in contact with the latter. The forwardly-projecting end of the strap *d* is engaged by a catch in the form of a toggle-lever *g* in the ordinary well-known manner, the same being pivotally connected to the front part *m* in the main supporting-wire *n*.

Fig. 5 shows the device in open position. The strap *b* is lowered, which offers the advantage that the cork stopper *o* is lower than the opening of the bottle, thus making the opening fully free and bringing the parts in a position in which a cork can be easily exchanged when necessary.

I claim as my invention—

1. A bottle-closing device provided with a wire bent to form two parallel bars, adapted to lie across the top of a stopper and connected together at one end, eyes at the opposite ends of said bars whereby they may be pivotally secured to the bottle, and two bars extending backward from and in continuation of the wire of the eyes, below and parallel with the outer parallel bars and pointed, whereby the stopper may be impaled thereon, substantially as described.

2. A bottle-closing device provided with a wire bent to form two parallel bars, adapted to lie across the top of a stopper and connected together at one end, eyes at the opposite ends of said bars whereby they may be pivotally secured to the bottle, and two bars extending backward from and in continuation of the wire of the eyes, below and parallel with the outer parallel bars and pointed whereby the stopper may be impaled thereon, in combination with a supporting-strap secured about the bottle and provided with eyes, and a rear strap linked in the eyes of the parallel bars and slidably secured in the eyes of the securing-strap, substantially as described.

3. A bottle-closing device provided with a wire bent to form two parallel bars, adapted to lie across the top of a stopper and connected together at one end, eyes at the opposite ends of said bars whereby they may be piv-



otally secured to the bottle, and two bars extending backward from and in continuation of the wire of the eyes, below and parallel with the outer parallel bars and pointed  
5 whereby the stopper may be impaled thereon, in combination with a supporting-strap secured about the bottle and provided with eyes, a rear strap linked in the eyes of the parallel bars and slidably secured in the eyes of the  
10 securing-strap, and a thin metal plate se-

cured to the first-mentioned parallel bars and adapted to rest on top of the stopper, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HANS PETER HINRICH CLASEN.

Witnesses:

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