

(No Model.)

D. C. GUILTINAN.
BOTTLE STOPPER.

No. 454,731.

Patented June 23, 1891.

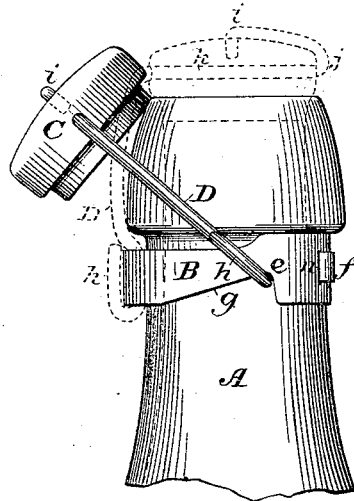


FIG. 1.

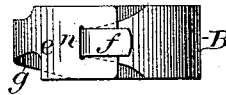


FIG. 2.

WITNESSES:

Charles H. Houghton.
Geo. F. Houghton.

INVENTOR:

DANIEL C. GUILTINAN,

BY *Franklin Scott,* ATTORNEY.

UNITED STATES PATENT OFFICE.

DANIEL C. GUILTINAN, OF BENNINGTON, VERMONT.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 454,731, dated June 23, 1891.

Application filed March 9, 1891. Serial No. 384,251. (No model.)

To all whom it may concern:

Be it known that I, DANIEL C. GUILTINAN, of the village of Bennington, in the county of Bennington and State of Vermont, have invented certain Improvements in Bottle-Stoppers, of which the following description, in connection with the accompanying drawings, is a specification, like letters in the drawings representing like parts.

10 This invention relates to means for stoppering bottles for holding aerated and mineral waters as well as other substances; and it consists in the special construction of devices for attaching the stopper to the band around the neck of the bottle and to the method of operating the stopper and band after they are so attached.

Figure 1 of the drawings shows an elevation of the neck of a bottle with the invention attached, and Fig. 2 is a detail view of the neck-band detached.

25 The neck-band consists of a strip of thin metal B, having a portion of its bottom edge cut away in the form substantially as shown at *g*, and having provisions for uniting its ends by passing a tongue *f* at one end through a slit *n* at the other end, as shown, or in any other suitable way, so that it may be passed around the neck of the bottle and fastened, said band being made a little larger than the circumference of the neck of the bottle for the purpose of affording space for the admission of the wire D between it and the bottle-neck.

30 The stopper C may be made of any suitable material, and has the wire D passing through it, as shown in the dotted lines, and clinched on the top, as seen at *i*. The wire D passes down the side of the mouth of the bottle, and opposite the bottom edge thereof it takes an inward bend and passes down behind the band or collar B under the edge thereof, and is then bent or returned up in the form shown at *h* in Fig. 1. This loop *h* is long enough to permit the wire D to be canted over to one side, as seen in Fig. 1. If found necessary, the upper edge of the collar-band B may be cut away a little, as shown, to facilitate the turning of the wire,

In practice the wire D and stopper C are so put together that when the stopper is thrown up onto its seat on the top of the mouth of the bottle its outside edge, or that side opposite the wire D or the point under the point *j*, will strike the edge of the bottle first, so that as the stopper is drawn down to its seat it will bear most firmly at the outside point. This may be accomplished by bending the wire D where it enters the stopper C on the side opposite the point *j* at an angle a little less than a right angle. This bend so arranged will insure that the opposite under edge of the stopper C will be first seated or entered in the mouth of the bottle.

In stoppering the bottle the stopper is thrown up into its position over the top of the bottle-mouth, and the collar-band is forced around, so that the inclined edge *g* shall be forced through the loop *h*, thereby drawing the stopper down into the position seen in dotted lines in Fig. 1, while in opening the bottle the wire D, or rather the loop *h*, is crowded back from the dotted position into the notch at *e*, whereby the stopper will be released and can readily be thrown back.

I therefore claim as my invention—

75 The combination of the collar B, having the bevel-notch *g e* in its lower edge, with the stopper C and the connecting-wire D, the latter being constructed with the loop *h*, which encircles the collar B and is adapted to cooperate with the notch *g e* of said collar, and the upper end of which passes through the stopper, as shown, and is fastened at its top, the whole being constructed and arranged to operate substantially in the manner described, and for the purpose set forth.

85 In testimony whereof I have hereto subscribed my name at Bennington, Vermont, this 13th day of February, 1891.

DANIEL C. GUILTINAN.

In presence of—

JOSEPH H. GUILTINAN,
FRANKLIN SCOTT.