

(No Model.)

F. S. GRANT.
BOTTLE SEAL.

No. 587,199.

Patented July 27, 1897.

Fig. 1.

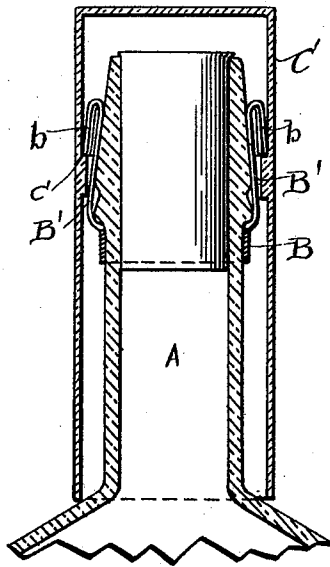


Fig. 4.

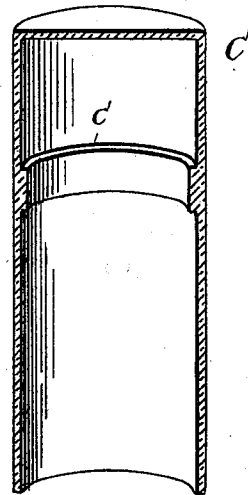


Fig. 3.

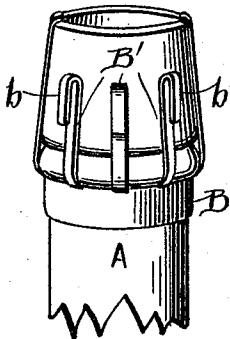


Fig. 2.

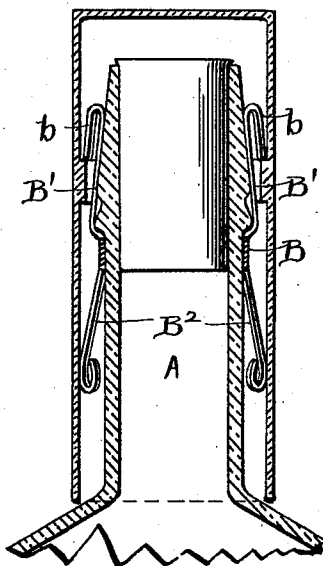
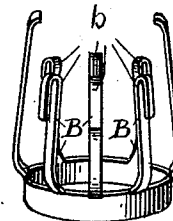


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

FRANK S. GRANT, OF WATERBURY, CONNECTICUT, ASSIGNOR TO JOSEPH GALLOND, OF SAME PLACE.

BOTTLE-SEAL.

SPECIFICATION forming part of Letters Patent No. 587,199, dated July 27, 1897.

Application filed January 12, 1897. Serial No. 618,998. (No model.)

To all whom it may concern:

Be it known that I, FRANK S. GRANT, a citizen of the United States, and a resident of Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Bottle-Seals; and I do 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a sectional view of neck portion of bottle having the invention applied thereto. Fig. 2 is a similar view showing modified form of invention. Fig. 3 is a perspective view of upper part of bottle with seal and cork removed, but with band B and its fingers in place. Fig. 4 is a perspective view of seal, one-half of same being cut away. Fig. 5 is a perspective view of band and fingers.

This invention is designed to provide a bottle-seal of improved character whereby after an original package has once been opened it cannot be refilled with goods of a different or inferior quality or brand and sold under the original name, label, or trade-mark.

With this object in view the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

Referring to the accompanying drawings, the letter A designates a bottle of any suitable or ordinary character, the only requisite being that the neck portion shall have an external shoulder or projection a short distance below the orifice.

B designates a band or collar which is secured around said neck portion and is retained thereon by means of said shoulder or projection. Said band or collar is provided with a number of upwardly-projecting fingers B' of yielding or spring character and which terminate at their upper ends in hooks or projections b.

C designates the seal, which is in the form of a hollow cap or shell, open at its lower end, closed at its upper end, and adapted to fit over the orifice and neck portion of the bot-

tle. It is provided with an interior shoulder or flange c, or it may be with any other suitable means, of such character that when it is slipped down over the neck of the bottle the fingers B' will be pressed inwardly and will not offer material resistance thereto, but which upon any attempt to withdraw the cap will at once engage with said fingers or their hooks or projections, and thereby effectually prevent the said cap from being removed until its integrity has been destroyed. The cap may be made of glass or of other frangible material, and the name, trade-mark, or other distinctive sign of the particular factor putting out the goods is to be blown into, stamped upon, or otherwise affixed to the same. The cap may also be of metal, in which case it must be cut with a suitable tool before it can be removed and access to the bottle-cork be gained. In order, therefore, for the bottle to be again filled and placed on the market with the distinctive marks of the original package, it is necessary to counterfeit the seal, which if practiced to any considerable extent would be easy to detect and would render the offender liable.

I usually form the collar or band B with a second series of fingers B², as shown in Fig. 2, which project downwardly around the neck of the bottle and are for the purpose of frictionally engaging the seal to prevent looseness or play of the same. These fingers may, however, be omitted.

I do not limit myself to the particular means herein shown and described for holding the seal in place while intact, as various devices might be used for this purpose without departing from the spirit and scope of my invention, nor do I wish to limit myself to the use of any particular kind of material in the manufacture of the seal or to the form thereof which I have illustrated.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a bottle, of a band or collar secured around the neck portion thereof and formed with a series of spring-fingers which extend upwardly around the mouth portion of the neck, each of said fingers having at its free end an outwardly and

downwardly bent hook, and a frangible cap or seal adapted to fit over said neck portion and to pass the said fingers and their hooks in a downward or seating direction, but having an internal annular shoulder or projection at its upper portion which is designed to engage the ends of the hooks upon reverse movement, substantially as specified.

2. The combination with a bottle, of a band or collar secured around the neck portion thereof and formed with a series of spring-fingers which extend up around the mouth portion of the neck, each of said fingers having at its free end an outwardly and downwardly bent hook, said collar also having a series of similar downwardly-extending fin-

gers whose free end portions are bent upwardly and inwardly, and a frangible cap or seal adapted to fit over said neck portion and to pass said fingers and hooks in a downward or seating direction, and having an internal annular shoulder or projection which is designed to engage with the hooks of the upwardly-extending fingers upon reverse movement of said cap or seal, substantially as specified.

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

FRANK S. GRANT.

Witnesses:

JOSEPH GALLOND,
THOS. F. LAWLOR.