

(No Model.)

L. GRAF.
BOTTLE STOPPER.

No. 348,461.

Patented Aug. 31, 1886.

Fig. 1.

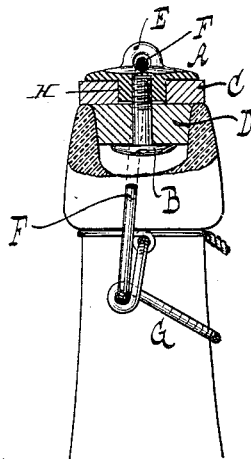


Fig. 2.

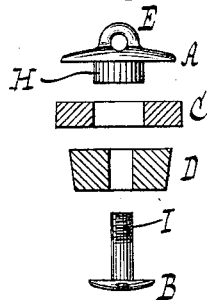


Fig. 4.

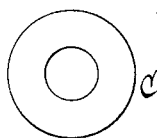
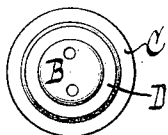


Fig. 5.



Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

LEOPOLD GRAF, OF NEWARK, NEW JERSEY, ASSIGNOR TO THEODOR A. GRAF, OF SAME PLACE.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 348,461, dated August 31, 1886.

Application filed June 30, 1886. Serial No. 206,716. (No model.)

To all whom it may concern:

Be it known that I, LEOPOLD GRAF, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented new and useful Improvements in Stoppers for Bottles and other Articles, of which the following is a specification.

This invention relates to stoppers for bottles, fruit-jars, and other articles; and it consists in the construction of stopper hereinafter described and claimed, whereby a stopper can be easily and cheaply manufactured and readily repaired when out of order.

This invention is illustrated in the accompanying drawings, in which Figure 1 is a side view, partly in section, of a stopper containing my invention applied to the mouth of a bottle. Fig. 2 is a side view, partly in section, of such stopper, the parts thereof being separated from one another. Fig. 3 is an inverted plan view of such stopper. Figs. 4 and 5 are detail views of body-sections.

Similar letters indicate corresponding parts.

A is a head, formed of metal or other suitable material, and B is a clamping device or retaining device of similar material as the head A. The retaining device consists of an externally-threaded shank, I, having a laterally-extended head at one end, said shank engaging a screw-thread formed on the interior of a tubular extension, H, of the head A. The stopper-body C D is held between the head A and retaining device B. The stopper-body can be formed of any suitable material sufficiently elastic or yielding to tightly close an opening to which the stopper is applied. The material of the body C D can be of such a kind that said body will not affect or be affected by the contents of the bottle or vessel. For example, for some purposes the stopper-body may be formed of cork, either plain or suitably prepared—as, for example, saturated or coated with oil or non-absorbent material—or the body may be formed of leather, india-rubber, or other suitable material. When the body becomes worn or useless, it can readily be removed from the stopper and a new body put in place of the former one. As seen in the drawings, I make the body of two sections, C and D, which sections can be made

of varying sizes to close various sizes of openings. Any one of these sections which is worn or useless can be readily removed from the stopper and replaced by a suitable section while the other body-section may remain on the stopper.

The retaining device B is provided with a groove or recess for the engagement of a screw-driver or suitable device for clamping or joining the head A and retaining device B firmly together.

The head A and retaining device B may be coated or plated in any suitable manner to prevent corrosion or oxidation.

The stopper can be used or applied to the bottle in any suitable way—as, for example, the stopper can be simply inserted into the mouth of the bottle like an ordinary cork; or the stopper may be applied, for example, in the manner shown in Fig. 1, where the head A has an eye, E, which engages with a bail or yoke, F. The bail or yoke F is joined to a lever, G, suitably fulcrumed on the bottle or vessel, and as the lever G is vibrated or swung the stopper is moved from or toward the mouth of the bottle or vessel. The tubular extension H and shank I hold the body C D firmly in place and prevent lateral or other displacement of the body.

By making the stopper of material which will not be affected by the contents of the vessel, and which material is tasteless, the contents of the vessel will be apt to be preserved in a natural condition.

What I claim as new, and desire to secure by Letters Patent, is—

A bottle-stopper consisting of the two yielding sections C D, placed one upon the other, the head A, having an internally-threaded tubular extension, H, entering the section C, and the externally-threaded shank I, having a head and engaging the tubular extension, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

LEOPOLD GRAF. [L. S.]

Witnesses:

W. C. HAUFF,

E. F. KASTENHUBER.