

(No Model.)

G. & H. E. G. LUYTIES.

BOTTLE STOPPER.

No. 265,118.

Patented Sept. 26, 1882.

Fig. 1.

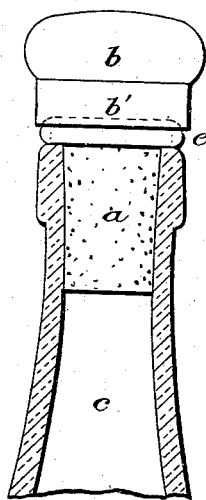
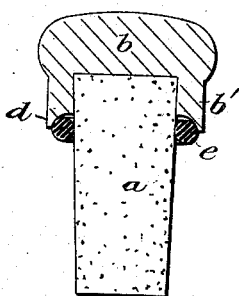


Fig. 2.



WITNESSES:

E. M. Smith
A. J. Gregory

INVENTORS:

Gerhard Luyties
Henry E. G. Luyties
By the Attorney,
T. B. Newell

UNITED STATES PATENT OFFICE.

GERHARD LUYTIES AND HENRY E. G. LUYTIES, OF NEW YORK, N. Y.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 265,118, dated September 26, 1882.

Application filed August 30, 1882. (No model.)

To all whom it may concern:

Be it known that we, GERHARD LUYTIES and HENRY E. G. LUYTIES, citizens of the United States, both residing at New York, in the county and State of New York, have invented a new and useful Improvement in Bottle Corks or Stoppers, of which the following is a specification.

Our invention relates to improvements in that class of bottle corks or stoppers which are made with a wooden head of enlarged dimensions, so as to permit of the stopper being grasped by the hand to withdraw it from the mouth of the bottle; and the object of our present improvement is to provide a device for re-enforcing or strengthening the cork at the point subject to the greatest strain, in order to overcome its tendency to split, or to break entirely off, when being drawn out of the bottle. We attain this object by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a bottle containing our improved cork or stopper, the body of the bottle being broken off; and Fig. 2 is a vertical sectional view of the cork, showing its grooved head.

The purpose of providing corks with an enlarged head is to enable them to be withdrawn from the bottle without the aid of a corkscrew, thereby facilitating the operation of removal, and also rendering them capable of repeated use by reason of their being preserved in a perfect condition. It has been found, however, in practice that when the cork is so perfectly fitted in the bottle as to preserve its contents air-proof considerable strength has to be applied to it to withdraw it, and that if in releasing it an effort is made to turn or twist it by the head the cork will almost invariably be broken off and be left in the bottle, or it will be so badly split that when withdrawn it will be worthless. To obviate this difficulty is the purpose of our improvement.

Let *a* represent the cork, and *b* a wooden head, which is recessed or hollowed out to receive one end of the cork, and which is permanently secured therein by cement or otherwise. *c* is the bottle holding said cork. The

neck *b'* of the head *b* is prolonged to a considerable extent over the ordinary-shaped heads, to give it an increase of bearing-surface. To relieve the cork of the strain which it is subjected to (when the neck *b'* bears directly upon it) in the process of removal, we cut away or bevel off the inner edge of the extremity of the neck *b'*, as seen in Fig. 2, so that an annular groove, *d*, is formed around the cork and within the head.

e is a ring, made of rubber or other suitable elastic material, which is preferably round in cross-section, and which fits snugly within the groove and tightly embraces the cork *a*. The ring *e* should project below or outside the groove somewhat, as seen in Fig. 2, so as to embrace and compress the cork at that point where it joins the neck in the ordinary form. The effect of the ring, when tightly fitting, is to preserve the cork at this point from the undue strain upon it when the cork is turned, twisted, or pulled up in withdrawing it from the bottle—a strain which cannot be avoided or lessened where the neck at its extremity joins the cork. In the use of the elastic ring the lower portion of the cork is caused to expand unduly, and thus, when inserted, affords better protection against leakage, and always insures a tight fit. By our construction it is possible to withdraw the cork without breaking it off or without fracturing it.

We are aware that corks provided with enlarged wooden heads are not new, and such, broadly, we do not claim as our invention; but

What we do claim, and desire to secure by Letters Patent, is—

A cork or stopper for bottles, formed with an enlarged wooden head having an elongated neck, the inner edge of said neck being beveled or cut away to form a groove, and an elastic ring fitting in said groove and compressing the cork-body, substantially as and for the purpose set forth.

GERHARD LUYTIES.
HENRY E. G. LUYTIES.

Witnesses:

L. DOBBIN,
JACOB WENK.