

(No Model.)

F. F. JEWETT.

BOTTLE STOPPER.

No. 276,822.

Patented May 1, 1883.

Fig. 1

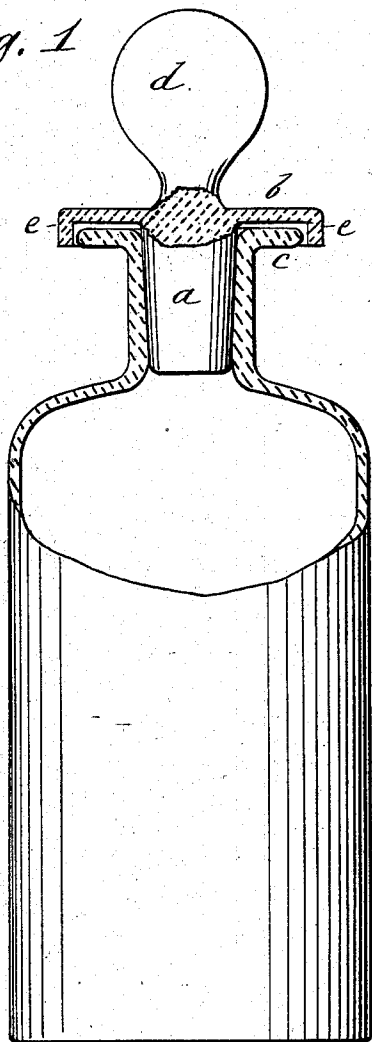


Fig. 2

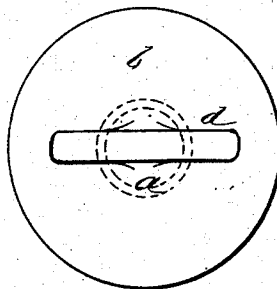
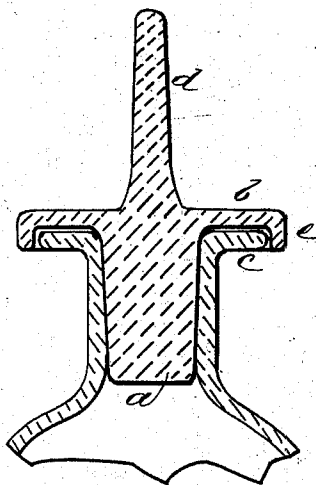


Fig. 3



WITNESSES:

C. Neveu
L. Sedgwick

INVENTOR:

F. F. Jewett
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

FRANK F. JEWETT, OF OBERLIN, OHIO.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 276,822, dated May 1, 1883.

Application filed November 2, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRANK F. JEWETT, of Oberlin, in the county of Lorain and State of Ohio, have invented a new and useful Improvement in Bottle-Stoppers, of which the following is a full clear, and exact description.

This invention, although applicable to bottles for various purposes, or rather for containing different substances, is more especially designed for bottles used in chemical laboratories, including bottles used for containing various reagents and acid or corrosive liquids. It will accordingly here be described more particularly with reference to bottles of the description or for the purposes herein last named. These bottles are usually fitted with two different kinds of stoppers, known respectively as the "flat-headed" stopper and the "hood" stopper. Both have their special advantages and both their peculiar defects.

The flat-headed stopper consists of a taper plug or body of circular form in its transverse section, mounted by a flat-sided finger-piece or head arranged to project in line with the longitudinal axis of the plug. This form of stopper not only furnishes a good purchase by which the stopper can be loosened and turned when stuck in the mouth of the bottle, so that it requires more than ordinary force to remove it, but it is very easily and conveniently held between the second and third or other fingers of the inverted or upturned hand, while the same hand is employed without inconvenience in holding the bottle to pour the liquid from it, leaving the other hand free to hold another bottle or vessel into which the liquid is to be poured, or for any other purpose. Such form of stopper, however, has its disadvantages. Thus its flat head does not protect the mouth of the bottle from dirt, caused by the accumulation of dust about or around it, and which, in order to keep the reagent or liquid pure when pouring from the bottle, must be carefully wiped off. Such stopper, too, when removed and held inverted by the fingers, as above described, is apt to have a drop or more of the contents of the bottle on it, and this, as in the case of an acid or corrosive liquid, in trickling down, soils or injures the fingers.

The hood form of stopper consists of a like

taper plug or body mounted by a flat cover or disk which fits down moderately close to the mouth of the bottle and protects said mouth from dust; but the shape of such cover or head does not present the same facility or purchase as the flat-sided head does for removing the stopper when stuck; nor does it allow of the removal and holding of the stopper between the fingers by the same hand which holds the bottle, but necessitates the removal of the stopper by one hand and the holding of the bottle by the other hand, and after the stopper has been removed it must of necessity, when pouring from the bottle, be laid down on any convenient surface, which exposes it to being soiled, and, when reinserted, causing it to impair the purity of the reagent or other contents of the bottle; and here it may be observed that in chemical laboratories it is very important that the purity of the chemicals should be preserved.

My invention combines all the advantages of these two forms of stoppers without the defects of either; and it consists in a bottle-stopper having its plug or body part mounted by a hood or shield arranged to cover the mouth and outer end of the neck of the bottle, and having a pendent flange arranged to fit outside of the rim or collar of the neck of the bottle, and this, again, surmounted by a flat-sided head or finger-piece, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a partly-sectional elevation of a bottle having my improved stopper applied, the stopper being partly in section; Fig. 2, a top view of said stopper. Fig. 3 is a vertical section of the stopper and neck of the bottle to which it is applied.

Referring to the drawings, the stopper is represented as having its plug or body part *a* mounted by a hood or shield, *b*, arranged to cover and preferably extend beyond the outer rim, *c*, of the neck of the bottle, and to fit moderately close to or over the mouth and neck, and is provided with a pendent flange, *e*, arranged to snugly but not tightly inclose the rim or collar *c* of the neck of the bottle, there-

by more effectually excluding dust from getting under the hood onto the mouth of the bottle. Mounted upon this hood or shield *b* is a flat-sided head, *d*, in line with or parallel to the longitudinal axis of the plug. Such stopper affords all the protection that the usual hood-stopper possesses of excluding dust from the mouth of the bottle, and at the same time admits of its being manipulated as the ordinary flat-headed stopper is worked and held, and not only possesses all the advantages, as hereinbefore enumerated, of said flat-headed stopper, but the additional advantage, when inverted, as it is held between the fingers after being drawn from the bottle, of catching on the hood or shield any drip of acid or corrosive or other liquid that may have been taken up by the stopper from the bottle.

The plug or body portion *a*, hood or cover *b*, and flat-sided head or finger-piece *d* of this double-headed bottle-stopper are made of glass and in one piece.

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

As an improved article of manufacture, a bottle-stopper consisting of the body *a*, the hood or shield *b*, having the pendent flange *c*, and the flat-sided head *d*, all constructed in one and the same piece, substantially as described.

FRANK FANNING JEWETT.

Witnesses:

JOSEPH B. CLARKE,
WM. B. MUNGER.