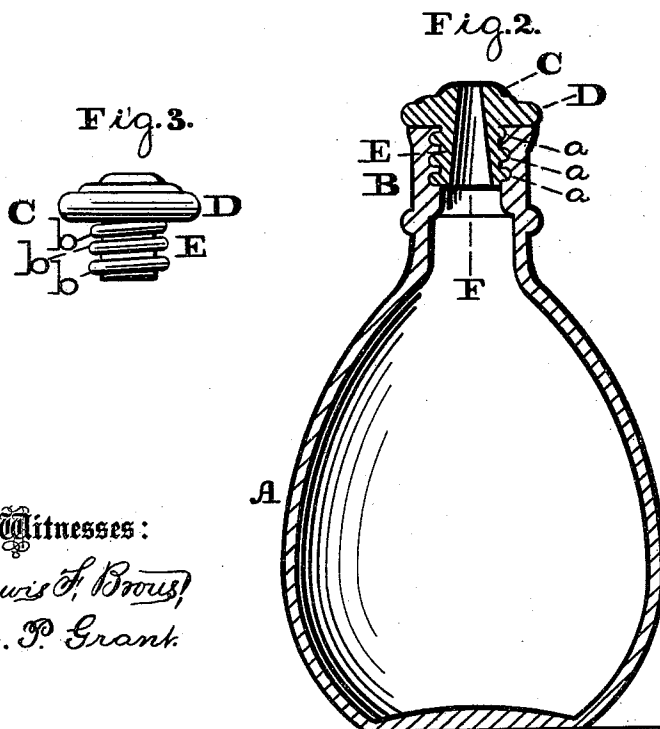
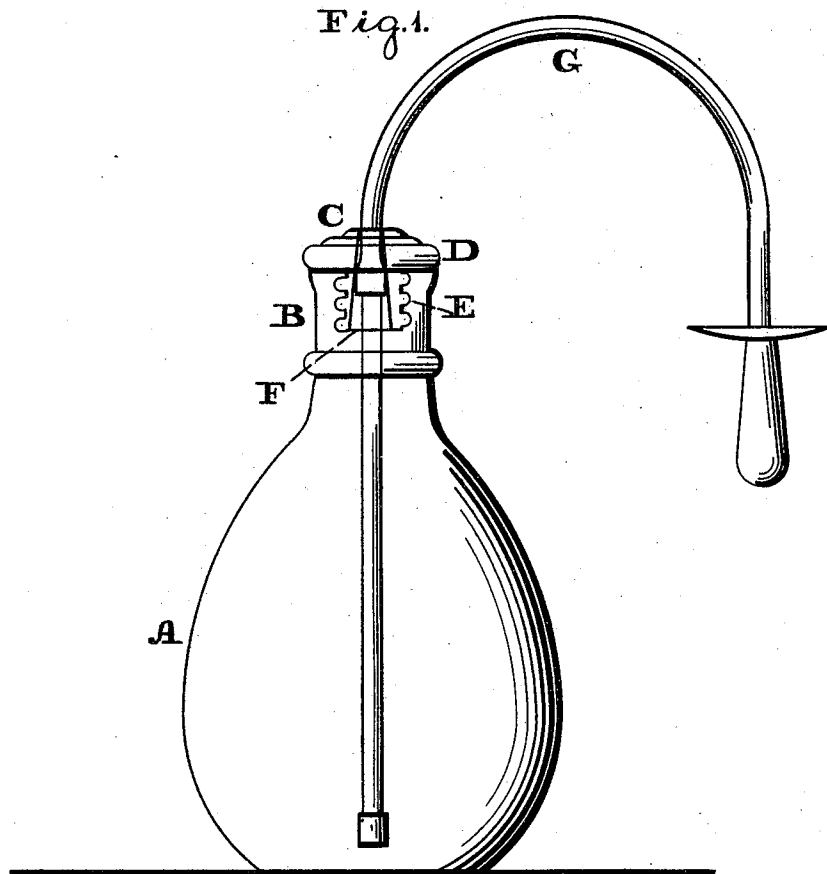


S. A. WHITNEY.
NURSING-BOTTLE.

No. 177,185.

Patented May 9, 1876.



Witnesses:
Lewis F. Brown,
Do. P. Grant.

Inventor:
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UNITED STATES PATENT OFFICE.

SAMUEL A. WHITNEY, OF GLASSBOROUGH, NEW JERSEY.

IMPROVEMENT IN NURSING-BOTTLES.

Specification forming part of Letters Patent No. **177,185**, dated May 9, 1876; application filed April 22, 1876.

To all whom it may concern:

Be it known that I, SAMUEL A. WHITNEY, of Glassborough, in the county of Gloucester and State of New Jersey, have invented a new and useful Improvement in Nurse-Bottles; and I do hereby declare the following to be a clear and exact description of the nature thereof sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side view of the nurse-bottle embodying my invention. Fig. 2 is a central vertical section thereof. Fig. 3 is a side view of the stopper and tube-holder. Fig. 4 is a bottom view thereof.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a nurse-bottle stopper constructed of a disk and threaded collar, both formed of glass, and having a central perforation for the reception of the conveying-tube, whereby metallic screw-caps or other fastenings are avoided, the contents of the bottle cannot become sour or tainted by contact with the stopper, and the conveying-tube will be properly held. It also consists in constructing the central perforation of a stopper of tapering form, whereby the conveying-tube will be tightly held therein with a closed joint.

Referring to the drawings, A represents a nurse-bottle, which may be of any desired form, and on the inner face of its neck B there is a screw-thread, *a*. C represents the stopper of the bottle, and it is constructed of a disk, D, to whose under side is joined a collar, E, the surface of which is formed with a screw-thread, *b*, which is adapted to engage with the thread *a* of the neck B. The disk D and collar E are made of glass, and they have a perforation, *f*, centrally through both of them, said perforation receiving the conveying-tube G of the nurse-bottle.

The operation is as follows: The stopper is

applied to the neck of the bottle so that the threads *a b* engage, and rotated, whereby the collar E enters the neck, and the disk D comes in contact with the upper edge of the neck, the mouth of the bottle thus being closed by the stopper with a tight joint.

It will be seen that the contents of the bottle cannot escape except through the conveying-tube, and they are in contact with glass at all points, (excepting, however, the small piece of rubber of the conveying-tube, if such material is employed,) so that the stopper will not cause souring or tainting of the fluid, since the stopper, owing to its nature, cannot absorb the fluid, and it is readily washed and kept clean. Moreover, all metallic fastenings are avoided, the advantages of which are apparent.

In order to hold the conveying-tube firmly in the perforation of the stopper, said perforation is of tapering form, the widest part being at the base of the stopper.

It is usual to employ a glass tube within the bottle and attach it to the rubber conveying-tube. The junction of the tubes causes a lap, which, when the rubber tube is drawn out, comes in contact with the walls of the perforation of the stopper, and is wedged thereagainst, whereby the conveying-tube will be securely held in the stopper, and the joint between the tube and stopper tightly closed.

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

1. A nurse-bottle stopper, consisting of a disk and threaded collar formed of glass, and having a central perforation, substantially as and for the purpose set forth.

2. The nurse-bottle stopper, having a perforation of tapering form, the widest portion of which is at the base thereof, substantially as and for the purpose set forth.

S. A. WHITNEY.

Witnesses:

S. W. WARRICK,
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