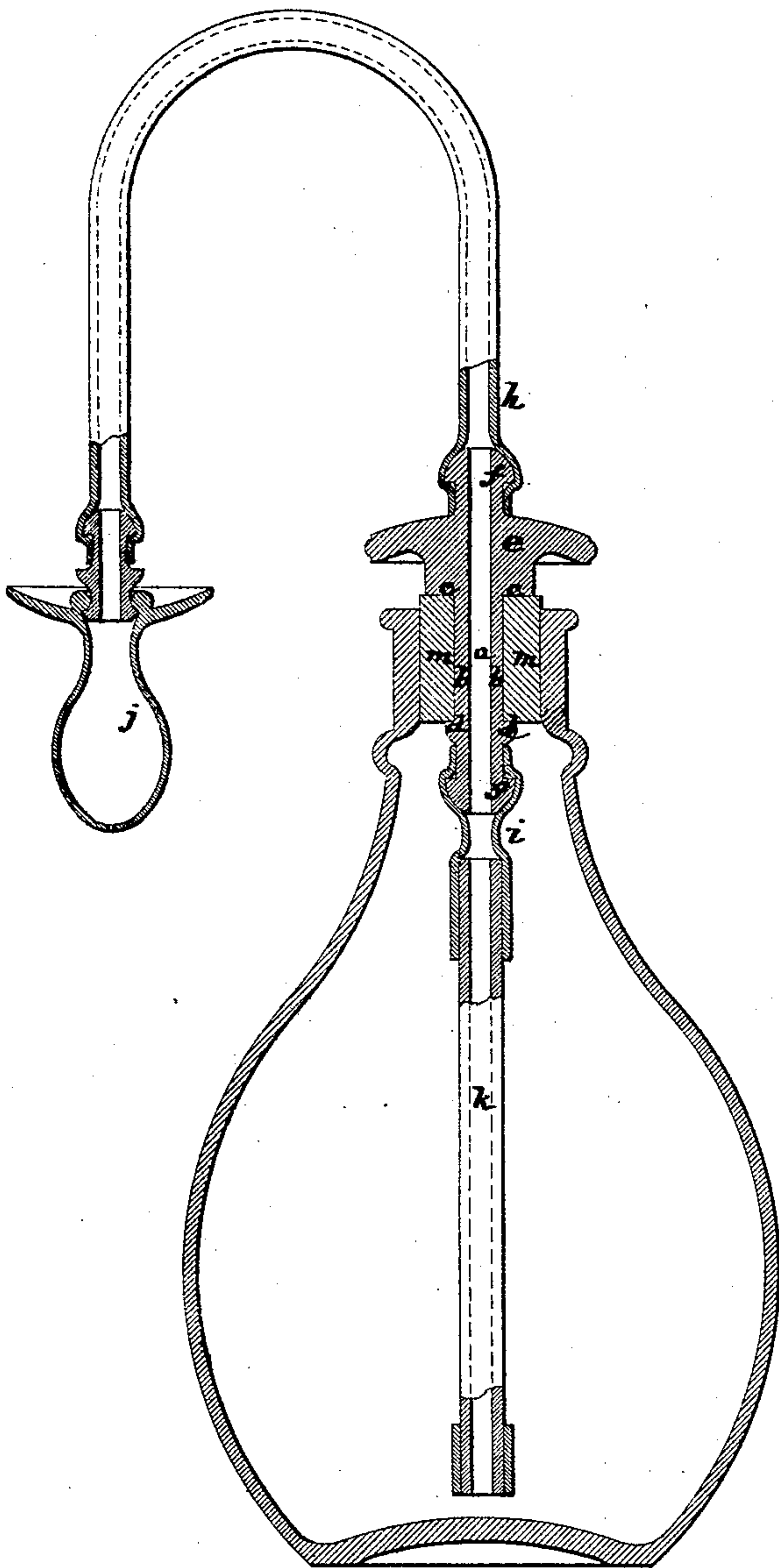


T. J. MAYALL.
Nursing-Bottles.

No. 140,518.

Patented July 1, 1873.



Witnesses:

John E. Querry
W. C. Chaffee

Inventor:

Thor J. Mayall
by his atty H. H. H. H.

UNITED STATES PATENT OFFICE.

THOMAS J. MAYALL, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN NURSING-BOTTLES.

Specification forming part of Letters Patent No. **140,518**, dated July 1, 1873; application filed June 20, 1873.

To all whom it may concern:

Be it known that I, THOMAS J. MAYALL, of Boston, Suffolk county, Massachusetts, have invented certain new and useful Improvements in Stoppers or Corks for Nursing-Bottles, of which the following is a specification:

My invention consists of an improved cork or stopper for nursing-bottles, constructed as follows, reference being had to the accompanying drawing, which represents a vertical central section of the stopper and the bottle to which the same is applied.

The main or central portion of the stopper is made of wood, glass, or metal formed in the shape represented, with a hole, *a*, extending through it from end to end; a central cylindrical portion, *b*, turned down to a smaller diameter than the remainder of the stopper, so as to produce the upper and lower flanges or shoulders *c d*; a head, *e*; and top and bottom knobs *f g*, formed at the extremities of the wooden stem. Around the central cylindrical portion *b* is snapped or sprung a sleeve, *m*, of vulcanized India rubber, preferably pure rubber, and slightly tapering on the exterior, its smaller end being at the bottom. This sleeve, of proper thickness, is held on the part *b* by the shoulders *c d*, between which it fits, and it is the part designed to fit in and close the neck of the bottle, as represented. Upon the upper and lower knobs *f g* are fitted the ends of the flexible tubes *h i*, which carry the external mouth-piece *j* and the internal glass tube *k*, as usual.

A stopper thus made is cheap, convenient, and admirably adapted for use. The body,

when made of wood, can be readily turned out in one piece in the shape represented, and all that is then needed to fit it for use is to snap or spring the rubber sleeve onto the stem *b* where it fits, and is securely held between the two shoulders which terminate that sleeve. It can be readily cleaned whenever desired, and it is but the work of a moment to take off and put on the rubber sleeve, as well as the top and bottom tubes *h i*.

I am aware that rubber tubes have been attached to bulbs or knobs, one at each end of a central metallic tubular stem for a nursing-bottle; this I do not claim.

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

The herein-described stopper for nursing-bottles, consisting of a main body or portion formed of one piece of wood or other suitable material with top and bottom knobs for attachment of the flexible suction-tubes, a head by which the stopper can be readily handled, and a central cylindrical stem terminating in two shoulders, upon which stem is sprung a rubber sleeve, clasping said stem and confined between said shoulders and constituting the stopper proper to fit the neck of the bottle, as shown and set forth.

In testimony whereof I have signed my name in the presence of two subscribing witnesses.

THOS. J. MAYALL.

Witnesses:

JOHN BULKLEY,
EDM. F. BROWN.