

(No Model.)

F. P. MORHOUS.
BOTTLE STOPPER.

No. 377,043.

Patented Jan. 31, 1888.

Fig. 1.

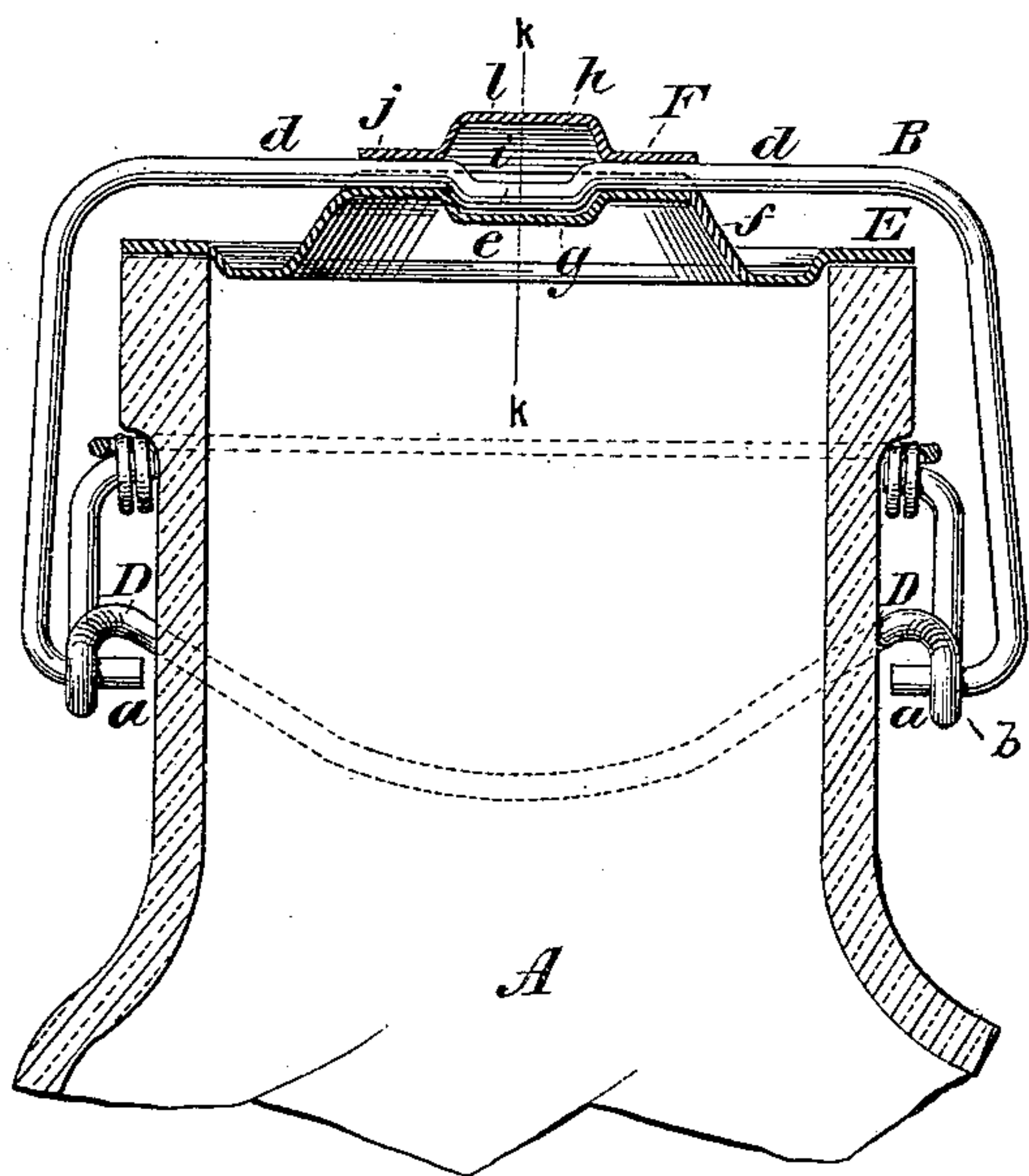


Fig. 2.

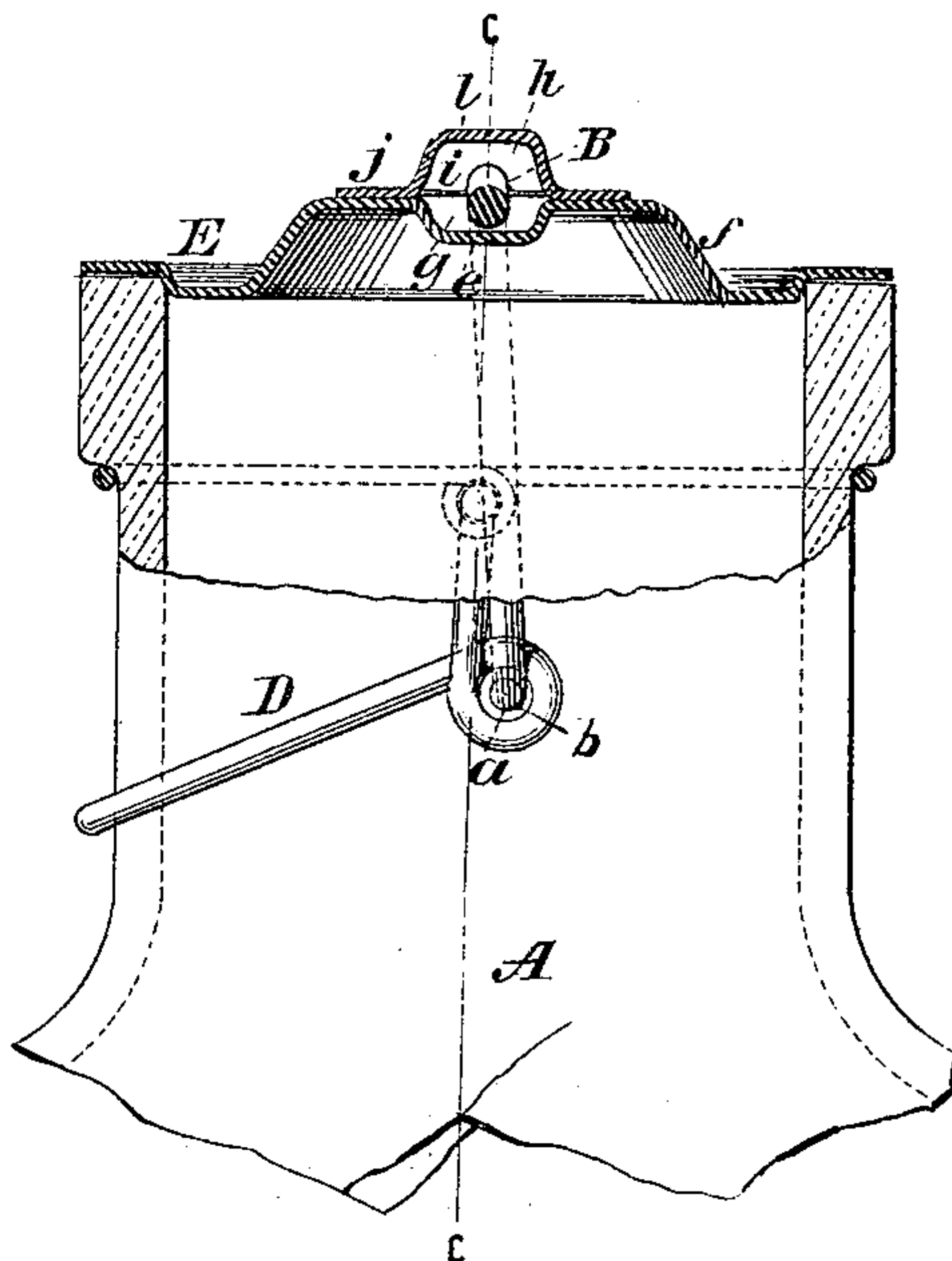


Fig. 3.

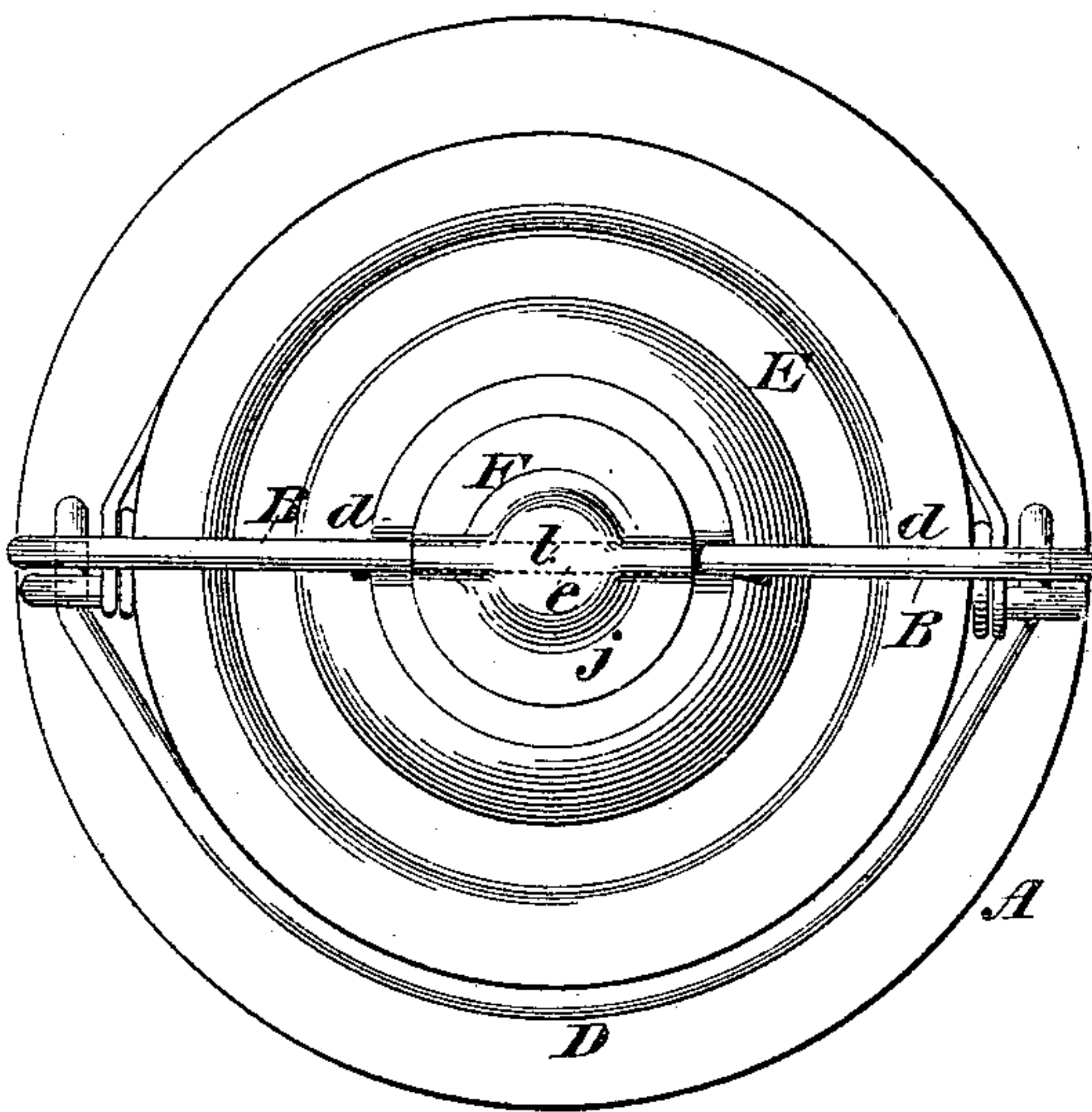
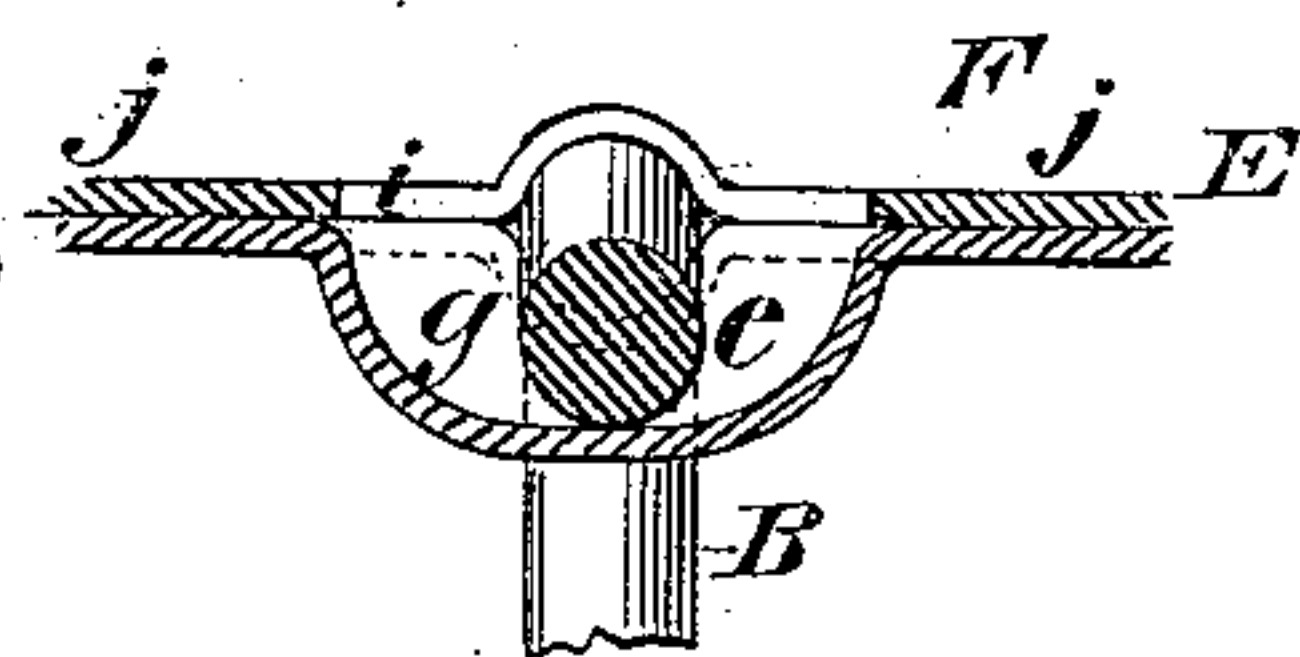


Fig. 4.

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UNITED STATES PATENT OFFICE.

FREDERICK P. MORHOUS, OF BENNINGTON, VERMONT, ASSIGNOR TO HENRY W. PUTNAM, OF SAME PLACE.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 377,043, dated January 31, 1888.

Application filed December 1, 1887. Serial No. 256,603. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK P. MORHOUS, of Bennington, Bennington county, Vermont, have invented an Improved Bottle-Stopper, of which the following is a specification.

This invention relates more particularly to that class of bottle-stoppers in which the stopper proper is carried by a bail, which is pivoted to a lever supported by the bottle.

The object of this invention is to permit the stopper to rotate freely upon the bail, but to have no longitudinal movement along said bail.

The invention consists in the combination, with a bail having a bend or enlargement on its horizontal part, of a stopper having a recess arranged beneath the bend in the bail, and of a cap-piece carried by the stopper and covering the bend in the bail. The recess in the stopper and in the cap-piece forms a hollow space in which the bend in the bail is free to play as the stopper rotates on the bail. The meeting edges of the stopper and the cap close this hollow space and prevent the bend in the bail passing out of the space, thus preventing the stopper sliding on the bail.

Reference is to be had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical cross-section on the line *c c*, Fig. 2; through the neck of a jar or bottle, showing my improved stopper in position on the bottle. Fig. 2 is a central cross-section taken on the plane of the line *k k*, Fig. 1, part of the bottle being in full lines. Fig. 3 is a plan view; and Fig. 4 is a detail sectional view, on an enlarged scale, taken on the line *k k*, Fig. 1, showing, however, the top of the cap F removed.

In the accompanying drawings, A represents the neck of a bottle or jar of suitable construction. B is a bail adapted to embrace said bottle-neck, and it is provided at its ends with hooks or bends *a*, which fit into eyes *b* in a lever, D, carried by the bottle-neck. Near the center of the horizontal part *d* of the bail B is a bend or enlargement, *e*, which is preferably of the form shown—that is, the bend

forms a somewhat abrupt angle with the horizontal part *d*.

E is the stopper, which may be of approved form. In the drawings it is shown as a piece of thin metal, the central portion of which is preferably elevated, as at *f*, to serve as a rest for the bail. In the center of the stopper is a recess or depression, *g*, into which the bend or enlargement *e* of the bail fits when the stopper is in position on the bail.

F is a cap-piece adapted to fit on the stopper E, and to cover the recess *g* and the bend *e* in the bail. The cavity *h* in the cap-piece F preferably conforms to the shape and size of the recess *g* in the stopper. When the cap F is on the stopper E, the cavities *g* and *h* form a hollow space, *i*. In this hollow space the bend *e*, or enlargement of the bail, is free to play. The rim *j* of the cap F fits snugly on the stopper E and covers part of the bail. The cap F may be secured to the stopper E by suitable means, preferably by solder. The edges of the recesses or cavities *g* and *h* preferably register, as in Figs. 2 and 4, whereby the inner wall of the hollow, *i*, thus formed is left comparatively smooth.

When the stopper so constructed is in position on the bail with the bend *e* in the hollow *i*, the stopper will be free to rotate on the bail B, as the bend *e* has free play within said hollow. The stopper E can have no longitudinal movement along the bail, as the bend *e* will strike the inner wall of the cavity *i*.

This construction will be found very useful in jars or bottles for many purposes, especially where milk is transported in bottles and where repeated washing of the bottle and lower side of the stopper is necessary, as this stopper can be turned completely over and thoroughly cleaned.

In place of the cap F completely covering the bend *e* in the bail, the raised part *l* of said cap could be removed, the rim *j* of the cap or other strip of metal being placed over the part *d* of the bail to hold the stopper in place on the bail.

Having now described my invention, what I claim is—

1. In a bottle-stopper, the combination of

the bail B, having bend or enlargement *e*, stopper E, having recess *g* for the reception of the bend or enlargement *e*, and a cap, F, for holding the stopper on the bail and permitting its
5 rotation thereon, substantially as described.

2. In a bottle-stopper, the combination of the bail B, having bend or enlargement *e*, stopper E, having recess *g*, and cap F, having

cavity *h*, over the recess *g*, said cap being secured on the stopper, substantially as described.

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Witnesses:

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