

A. P. BROOKE.

FRUIT-JAR.

No. 174,773.

Patented March 14, 1876.

Fig. 1.

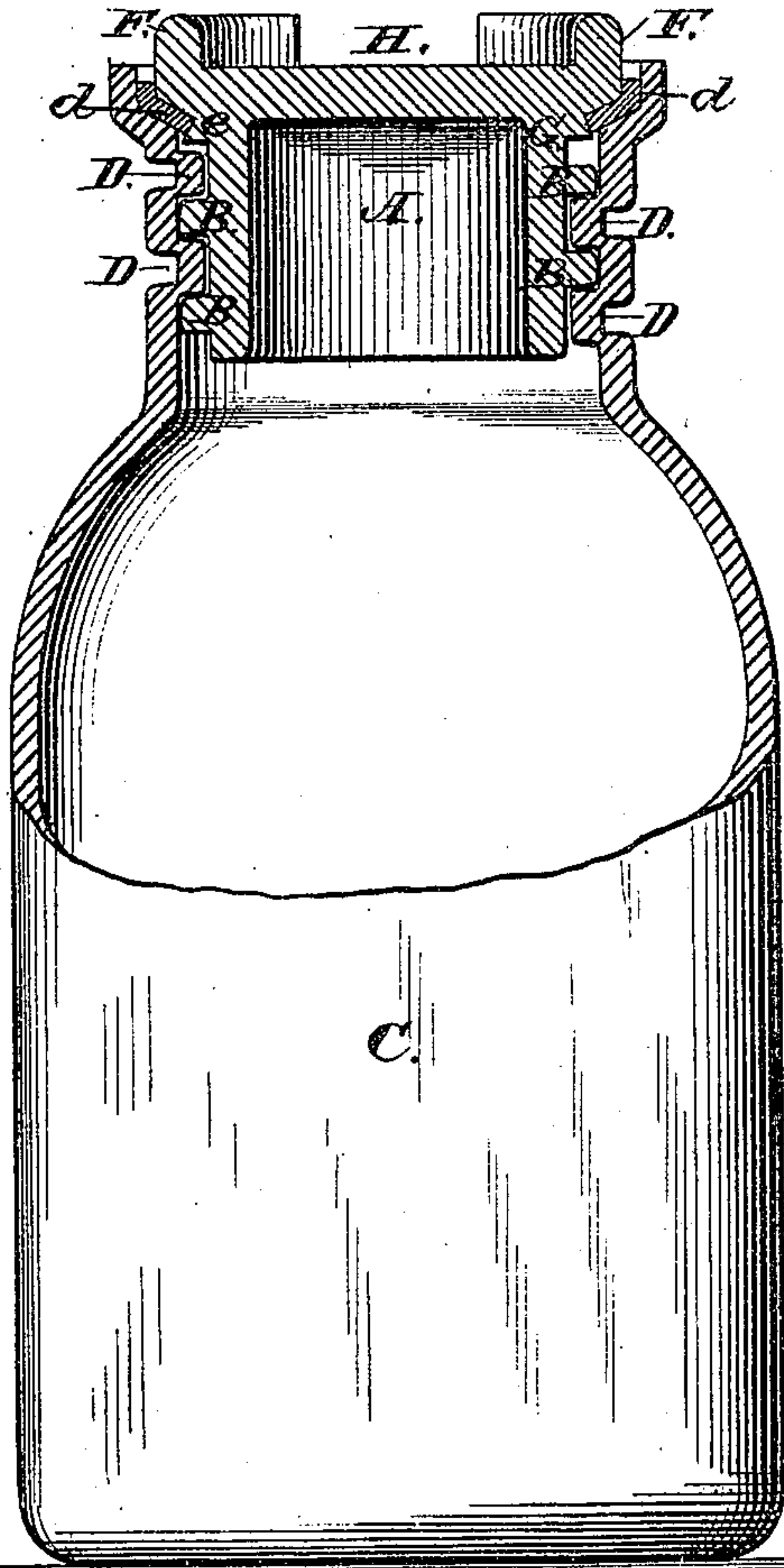
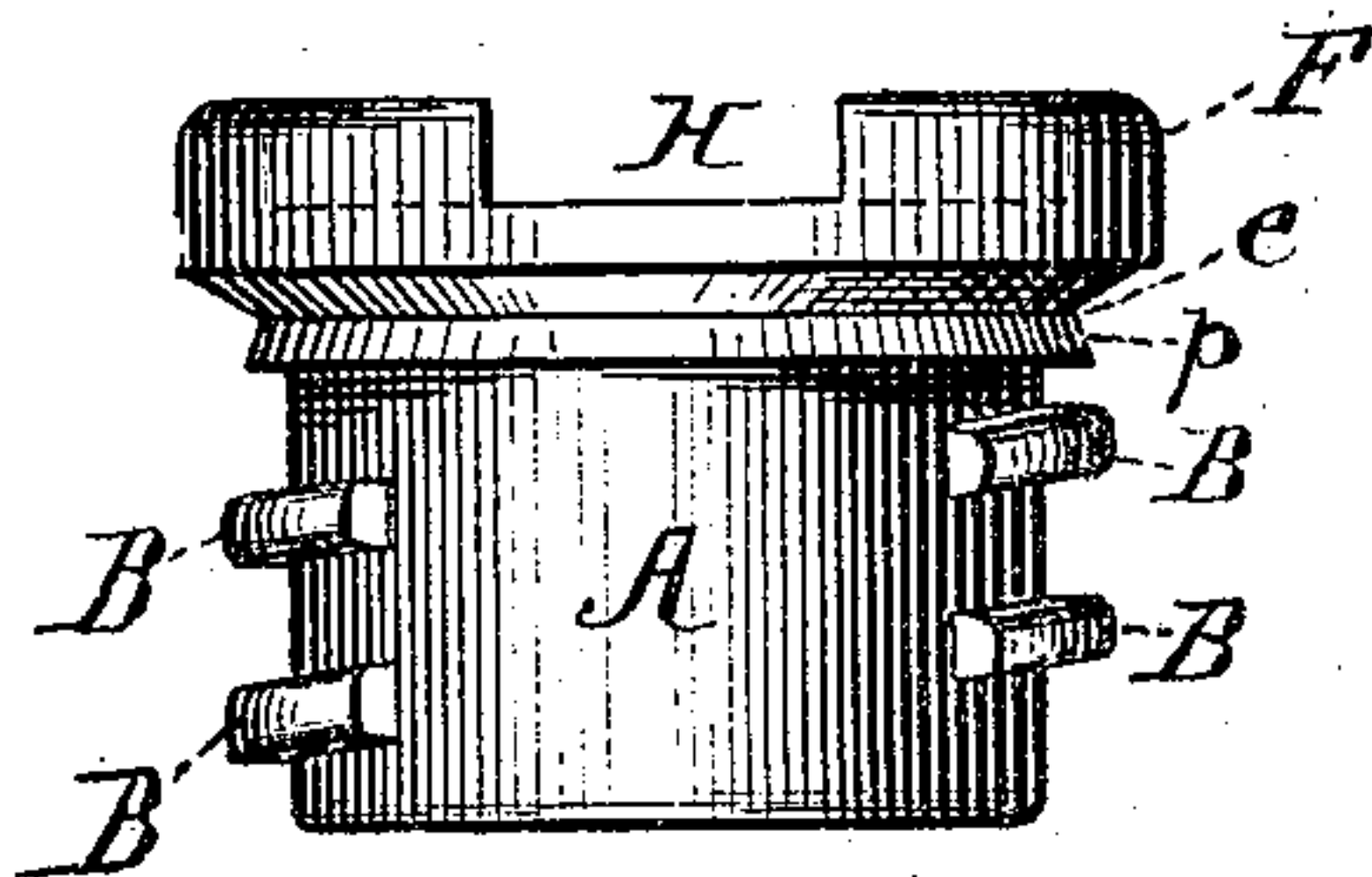


Fig. 2.



Attest:
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UNITED STATES PATENT OFFICE.

ARIES P. BROOKE, OF BAYONNE, NEW JERSEY, ASSIGNOR TO JAMES M. BROOKFIELD.

IMPROVEMENT IN FRUIT-JARS.

Specification forming part of Letters Patent No. 174,773, dated March 14, 1876; application filed May 7, 1875.

To all whom it may concern:

Be it known that I, ARIES P. BROOKE, of Bayonne, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Fruit-Jars, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 shows a sectional side elevation. Fig. 2 is a side view of the stopper detached.

Similar letters indicate corresponding parts.

This invention relates to certain improvements in fruit-jars; and consists of a fruit-jar provided in its neck with inclined grooves, and with a gasket-supporting shoulder above the grooves and below the edge of the mouth, in combination with a stopper having projections to engage with the grooves, and a flange, against which the gasket is placed, as will more fully be hereinafter described, and pointed out in the claim.

In the drawing, the letter A designates a stopper constructed according to my invention. The stopper has a cylindrical form, and is made hollow for a portion of its length, in order to reduce its weight, the hollow portion being made, as shown, Fig. 1, to open toward the top of the stopper. Opposite to each other on the outer side of the stopper A are formed segments B, which are arranged one above the other, and inclined in like directions, so as to form segments of a screw-thread. The letter C designates a fruit-jar, on the inner side of whose neck are formed segments D, corresponding to those of the stopper A—that is to say, the segments D are arranged one above the other, and have a pitch corresponding to that of the segments. The length of the segments of the jar D is such as to admit of the passage between their ends of the segments B of the stopper, so that by a proper adjustment of the stopper it may be thrust into the neck of the jar A to a sufficient extent to admit of an engagement of the segments B D with each other.

When the stopper is thus inserted in the jar, and slightly turned to the right hand, the segments B D engage with each other and draw the stopper inward or downward, while

at the same time the stopper becomes locked in position. By re-turning the stopper, or turning it to the left hand, it not only becomes unlocked, but by the screw-like action of the segments is forced outward against the resistance of the atmosphere, and the partial vacuum in the jar becomes broken, and the stopper can be readily removed.

The neck of the jar C is provided with an annular shoulder, *d*, on its inner side, and below its top edge, to which shoulder is fitted an enlarged portion, F, formed on the upper end of the stopper. Between the shoulder and the enlargement F is interposed a gasket, G, of india-rubber or other suitable material. The gasket forms part of the stopper A, its inner edge being inserted in a groove, *e*, formed immediately below the enlargement F of the stopper, so that the gasket is not liable to become lost or displaced when the stopper is removed from the jar. The enlargement F is so arranged relatively to the gasket-shoulder *d* and to the segments B D that when it comes in contact with the shoulder the segments are brought in a position to engage with each other. In the upper edge of the stopper A are formed notches H H, in order to admit of locking or unlocking the stopper by means of a wrench or key, the notches being opposite to, and forming a continuation of, each other. By this means an exceedingly firm union of the stopper with the jar may be produced.

By this arrangement I obtain a compact, strong, and durable fastening, and one which is not liable to work loose, nor to get out of order; and, furthermore, by arranging the gasket-supporting shoulder below the top edge of the neck, I am enabled to form said shoulder in the mold together with the segments D, so that these parts will be perfectly true in regard to each other, and by inserting the stopper, and turning it in the proper direction, a tight joint is produced without subjecting the jar to any further operations, such as grinding off its top edge.

The stopper is provided with a flange, *p*, which sets below the gasket-shoulder in the mouth of the jar, filling the same, and pre

venting the contents of said jar from coming in contact with the gasket and absorbing the disagreeable odor of said gasket.

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

A fruit-jar provided in its neck with inclined grooves, and a gasket-supporting shoulder above the grooves and below the edge of the mouth, in combination with a stopper having projections to engage with the grooves, and a flange against which the gasket is placed, whereby the gasket is prevented from coming in contact with the contents of the jar, and

by turning the stopper in one direction it is locked, while by turning it in the opposite direction it is raised against the pressure of the atmosphere, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 28th day of April, 1875.

ARIES P. BROOKE. [L. s.]

Witnesses:

J. VAN SANTVOORD,
FRANCIS FORBES.