

HUGHES, SHAFFER & THOMPSON.

Fruit Jar.

No. 88,296.

Patented March 30, 1869.

Fig. 1.

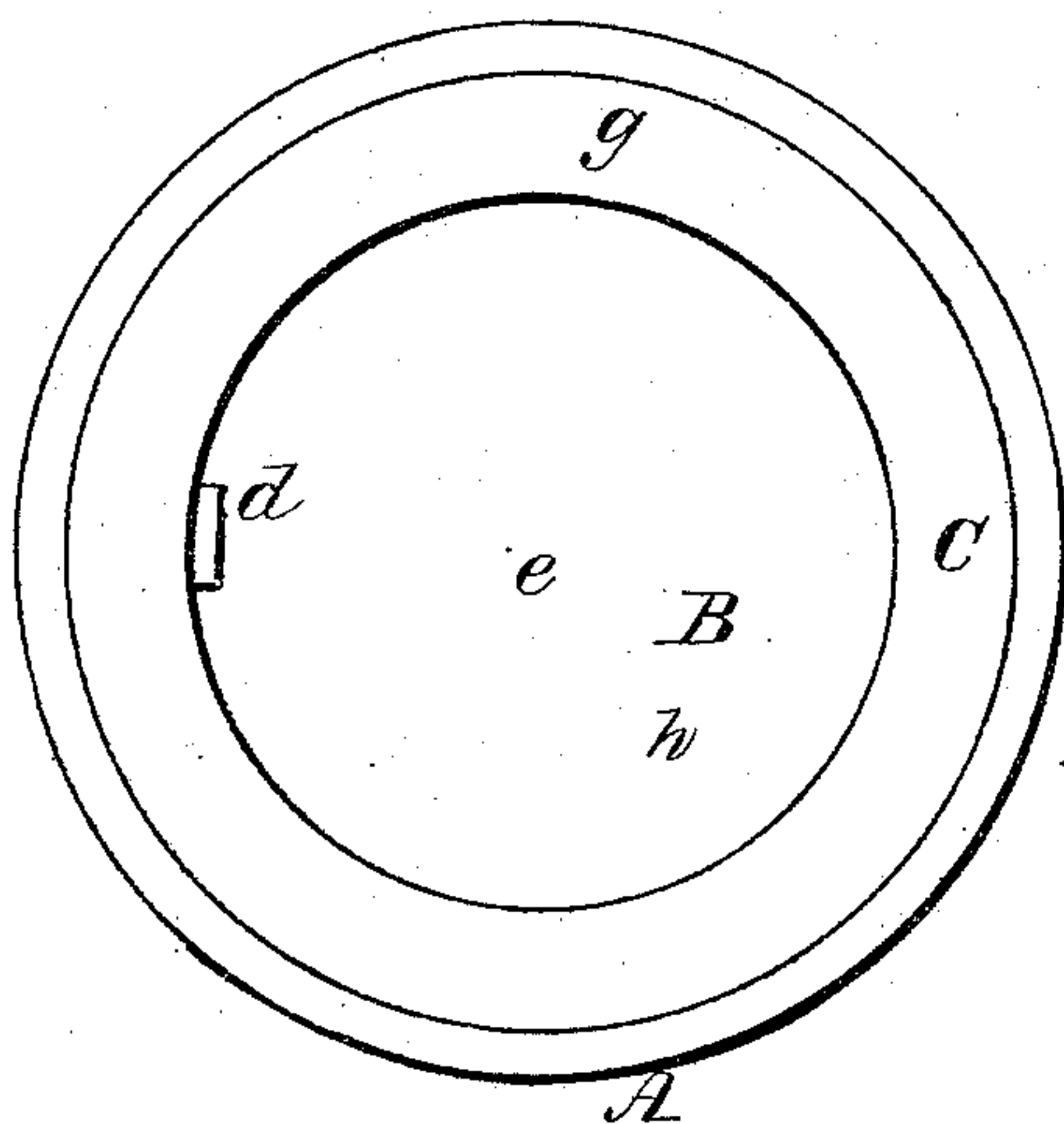
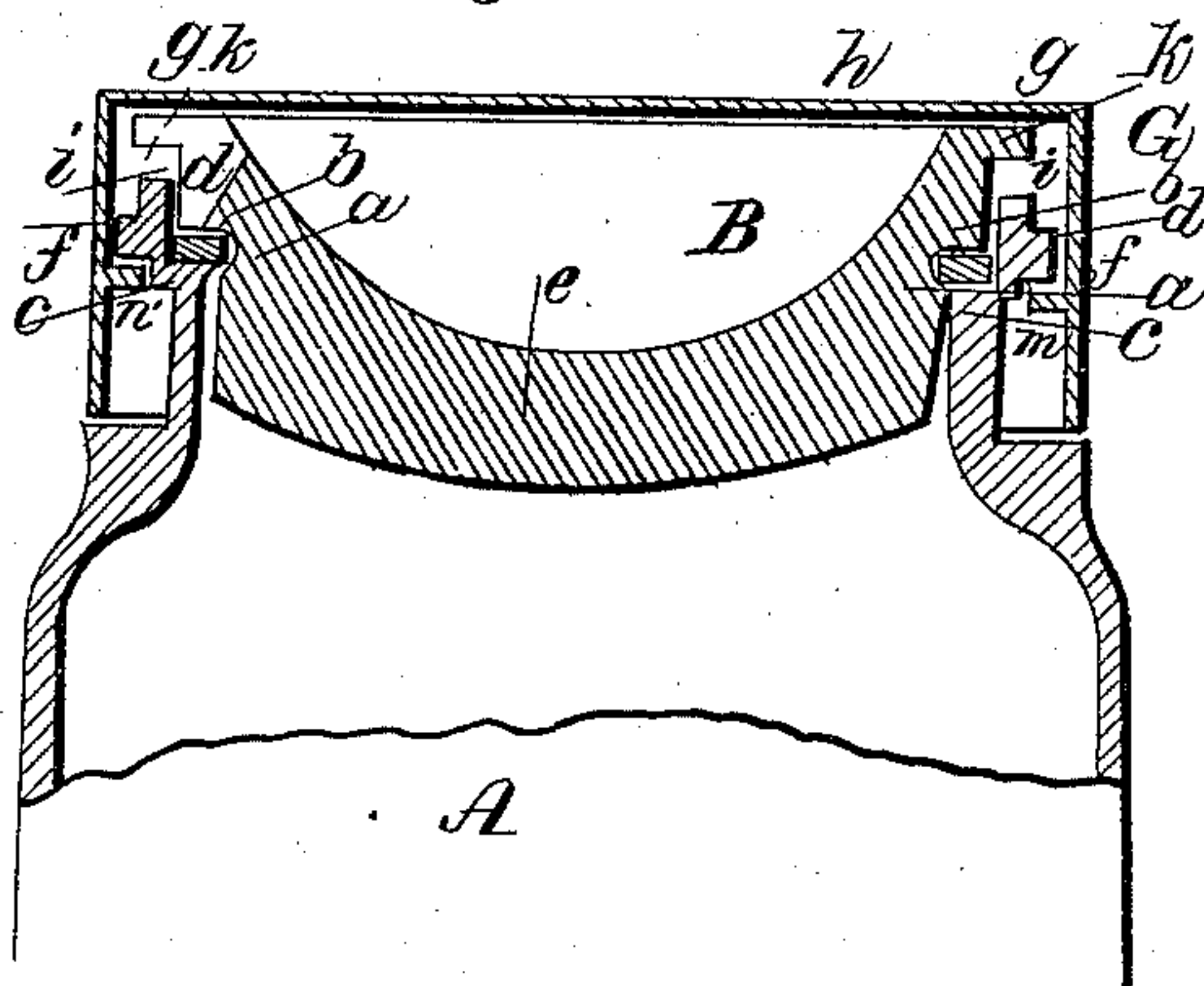


Fig. 2.



Witnesses.

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DANIEL HUGHES, HENRY E. SHAFFER, AND WILLIAM S. THOMPSON, OF ROCHESTER, NEW YORK, ASSIGNORS TO HENRY E. SHAFFER AND WILLIAM S. THOMPSON, OF SAME PLACE.

Letters Patent No. 88,296, dated March 30, 1869.

IMPROVED FRUIT-JAR.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, DANIEL HUGHES, HENRY E. SHAFFER, and WILLIAM S. THOMPSON, assignors to HENRY E. SHAFFER and WILLIAM S. THOMPSON, of the city of Rochester, county of Monroe, and State of New York, have invented a certain new and useful Improvement in Fruit-Jars; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a plan of our improved jar.

Figure 2 is a section of the top of the same.

Like letters of reference indicate corresponding parts in both figures.

Our invention consists in the arrangement of the cover and the clamping-ring, as hereinafter set forth, whereby said cover is made to fill the air-space over the fruit; and a special provision is made for the admission of air and the removal of the clamp-ring.

In the drawings—

A indicates an ordinary jar;

B, the cover; and

C, the clamping-ring.

The cover is made of glass, with a bevelled groove, *a*, to receive the packing-ring *b*, which latter rests upon the usual shoulder *c*, within the neck of the jar.

The top of the cover is also made concave on the upper side, and convex on the under side, as shown at *e*, so as to rest down in the air-space in the neck of the jar, and come in close proximity to the fruit.

By this means the air is excluded from the neck of the jar, and thus the great difficulty which occurs in common jars, from moulding, is obviated.

On one edge of the cover is also made a notch, *d*, which exposes a portion of the width of the packing-ring below, the object of which is to admit air by the insertion of a proper instrument, as will be presently described.

The clamp-ring consists simply of a vertical rim, *f*, which shuts down over the outside of the neck of the jar, thereby enclosing and shielding the edge of the cover, and a horizontal flange, *g*, of only sufficient width to bear down upon the edge, *k*, of the cover to fix it in place thereby, having an open space, *h*, in the top, which exposes the cover, as shown.

By this means it will be seen that the notch *d* is also exposed, so that the knife-blade, or other instrument, may be run down from the top without the least difficulty, so as to admit the air in opening the fruit.

This arrangement of the notch *d*, at the top, in connection with the open space *h* of the clamp-ring, we consider as one of the novel features of our invention, since it allows the clamp-ring to project down over the neck of the jar to shield the cover, and yet allow a free entrance for the instrument, which could not otherwise take place.

Another special advantage is, that a space, *i*, is left between the top of the jar and the flange *k* of the cover, to allow the insertion of a lever or key for raising the cover up under pressure.

In all other jars with which we are acquainted, the flange *k* of the cover shuts down closely upon the jar.

In the sides of the neck of the jar are formed inclined lugs *l l l*, under which catch points *m m m*, (three, more or less,) that draw the clamp-ring down upon the cover, to tighten the latter in place. Instead of the points, any equivalent arrangement may be employed, for instance, grooves, struck in from the inside of the ring, to exactly correspond in position and incline with the lugs on the side of the jar.

The novel features in this invention consist, as before stated, in the concavo-convex topped cover for filling the air-space, with a notch, *d*, in one edge, which is exposed at the top by the open ring C, allowing the insertion of a knife-blade in the jar, and also in the elevation of the flange *k*, above the top of the jar, to allow leverage to be applied.

These features we believe to be new in our jar.

In this jar, it will also be noticed, the bottom, *e*, of the cover projects below the shoulder *c*, so that the fruit is excluded from the rubber.

It will be noticed that the clamp-ring must fit accurately the neck of the jar, and the flange *k* must fit accurately the clamp-ring, so as to centre the cover properly, since the thickness of the jar frequently varies, and therefore sometimes there is considerable play of the cover inside.

We do not, of itself, claim as new the raised flange of the cover, or the depressed top thereof, nor the air-admitting device; but

What we claim as our invention, and desire to secure by Letters Patent, is—

The arrangement and combination, in a cover for fruit-jars, of the concavo-convex stopper B, when so constructed as to insure greater thickness of the periphery to occupy the space usually left vacant around the neck of the jar, and prevent the fruit from approaching the joint, said stopper being grooved and shouldered at the periphery, and provided with the elevated flange *k*, notch *d*, and extended horizontal-bearing plane for the inwardly-projecting flange of the clamp-ring C, substantially as and for the purposes set forth.

In witness whereof, we have hereunto signed our names, in the presence of two subscribing witnesses.

DANIEL HUGHES.
HENRY E. SHAFFER.
WM. S. THOMPSON.

Witnesses:

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GEO. W. MIATT.