

(No Model.)

H. CAIN.  
FRUIT JAR.

No. 279,535.

Patented June 19, 1883.

Fig. 1.

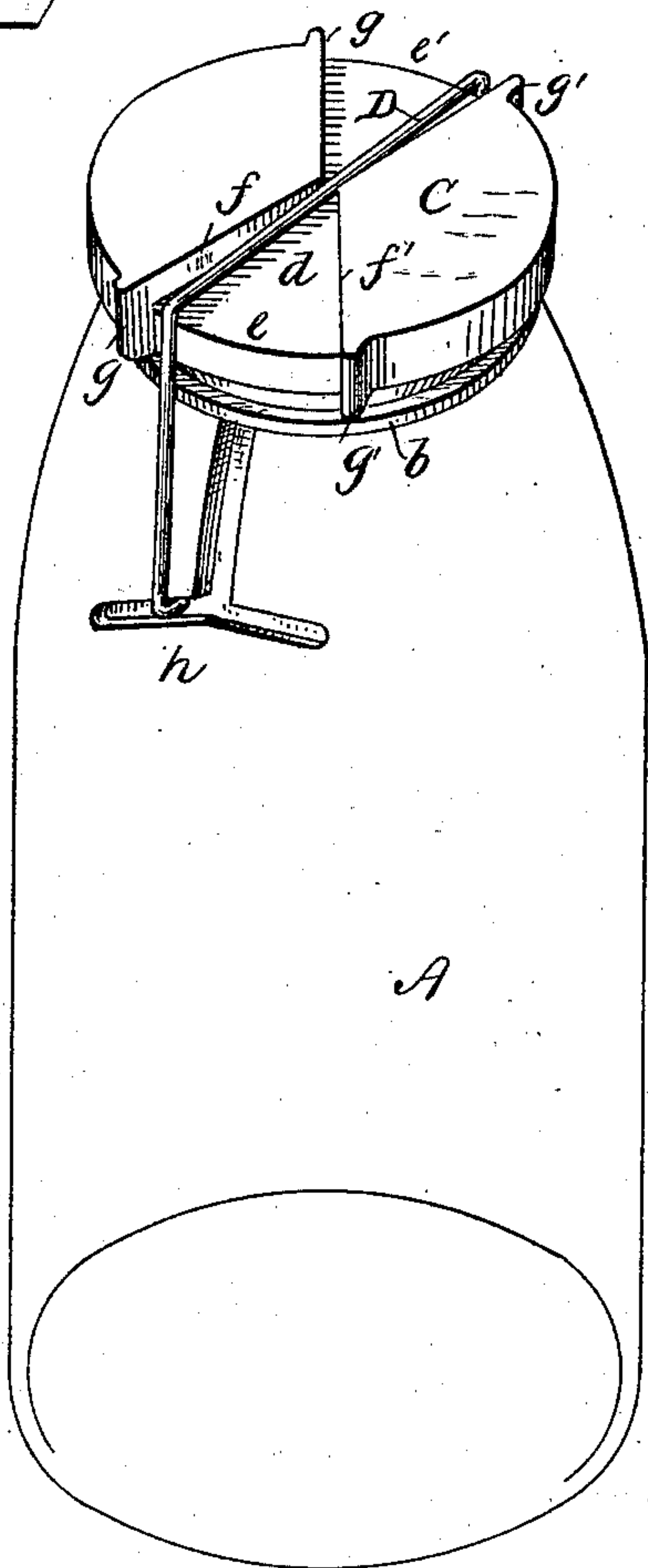


Fig. 4.

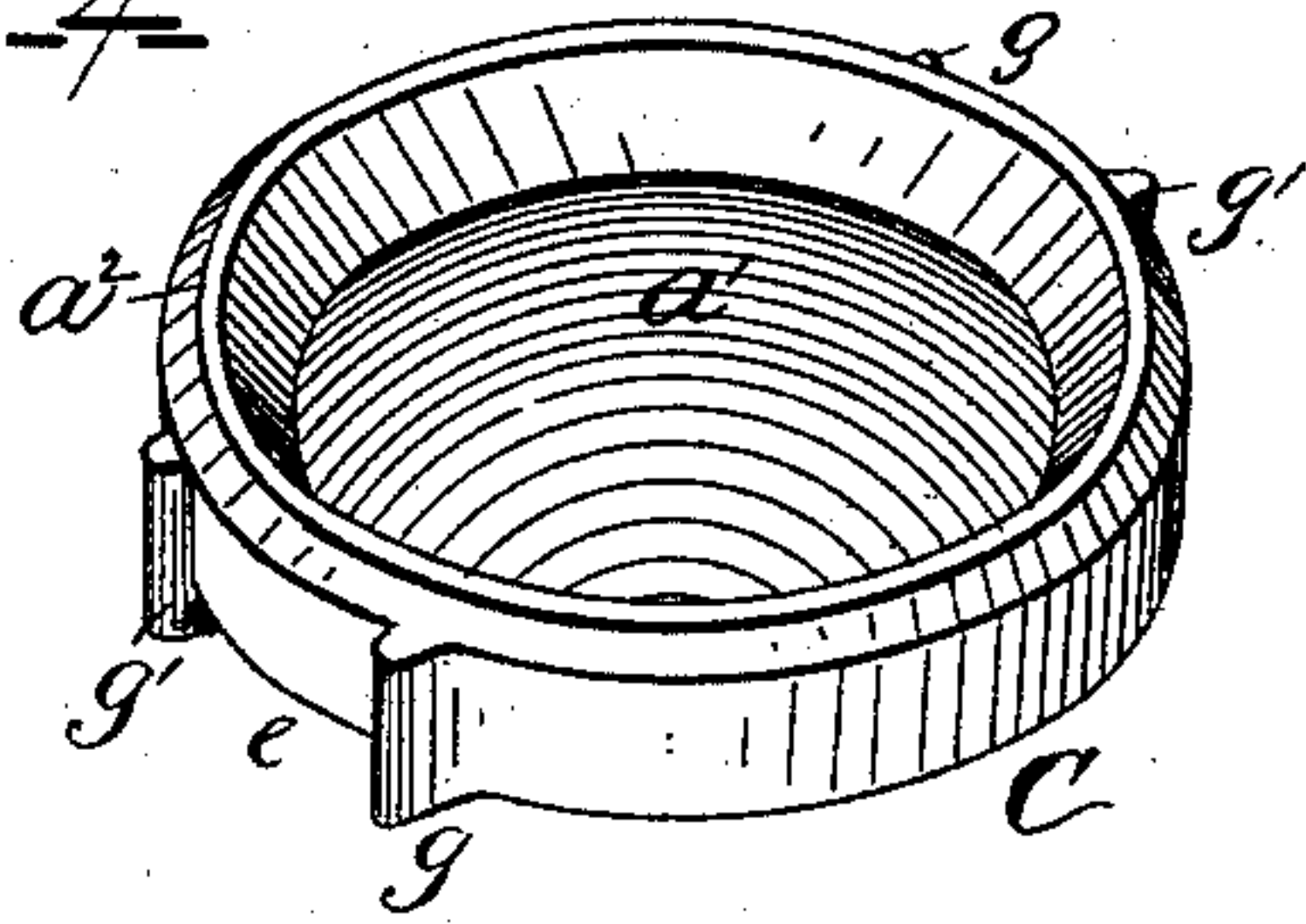


Fig. 5.

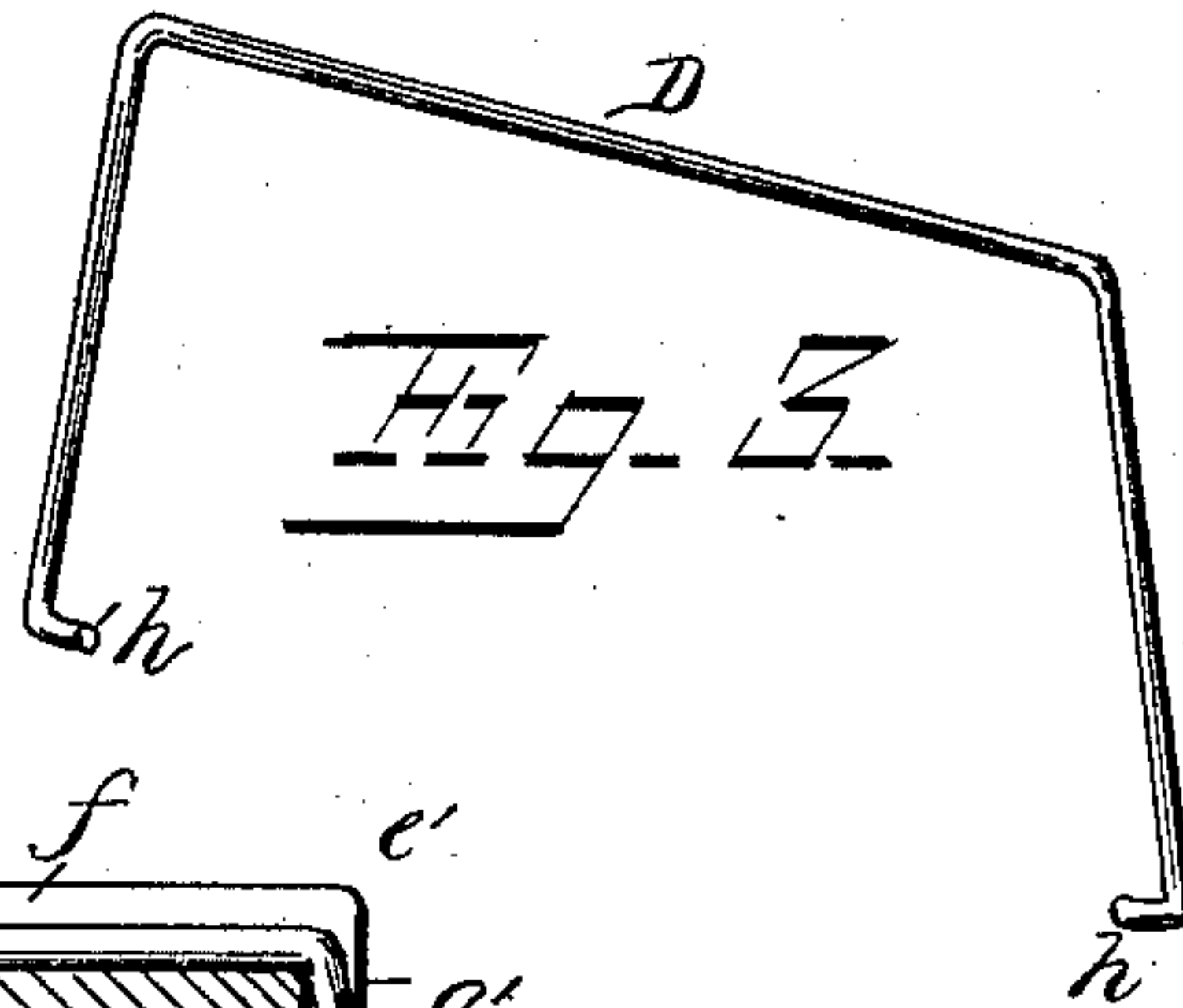
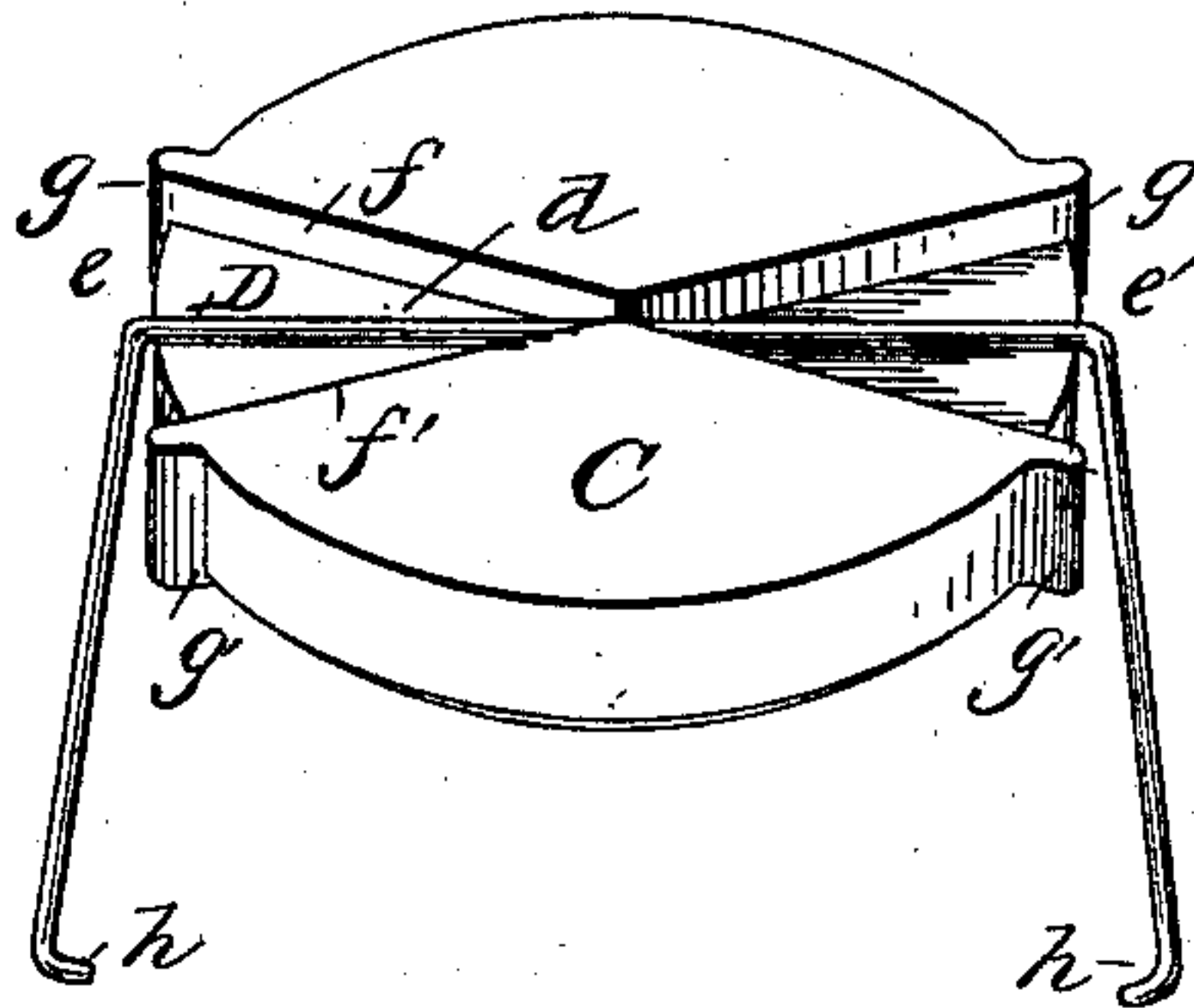
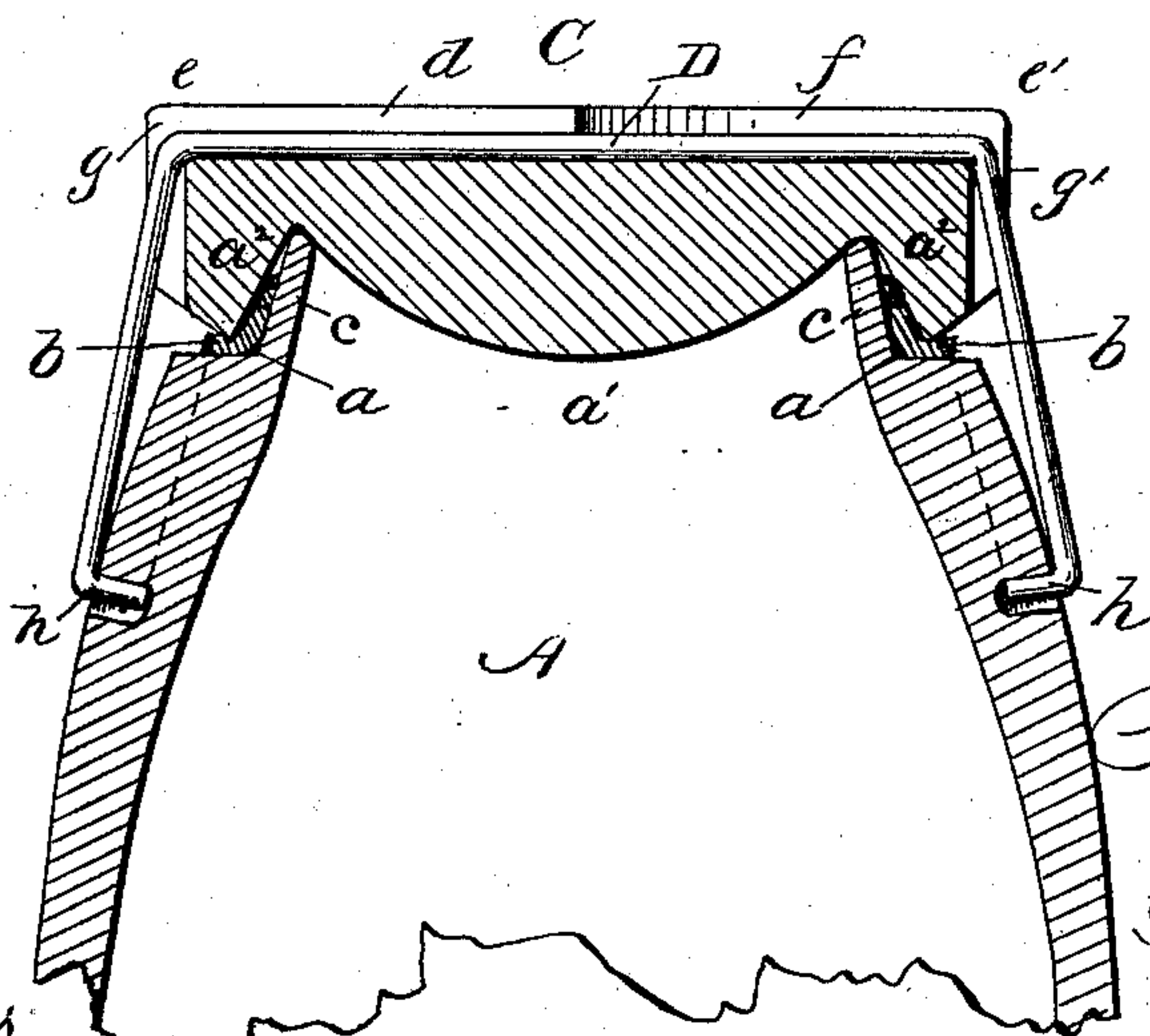


Fig. 2.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

HARRY CAIN, OF BRIDGETON, NEW JERSEY, ASSIGNOR OF ONE-HALF TO  
CHARLES H. MICKEL, OF SAME PLACE.

## FRUIT-JAR.

SPECIFICATION forming part of Letters Patent No. 279,535, dated June 19, 1883.

Application filed April 10, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HARRY CAIN, a citizen of the United States, residing at Bridgeton, in the county of Cumberland and State of New Jersey, have invented a new and useful Fruit-Jar, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to fruit-jars; and it has for its object to provide a simple, inexpensive, and efficient self-sealing jar, which is specially applicable to meet the requirements of packers and dealers in fancy canned goods.

Heretofore self-sealing jars have been constructed in a great variety; but, as a rule, they have been devised with special reference to their use in families. My improvements render the jars no less desirable for domestic use; but at the same time they are especially intended to more fully meet the requirements of dealers in canned goods than has heretofore been attained with any jar of this class of which I am aware.

To these ends my invention consists in certain novel constructions and arrangements of parts, as will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of a jar embodying my improvements. Fig. 2 represents a vertical section of the same, only a portion of the jar in this view being shown. Fig. 3 represents a detail view of the clamping-yoke. Fig. 4 represents a detail view, showing the shape of the cover on the under side thereof; and Fig. 5 represents a detail view of the clamping-yoke and cover placed in position together.

Like letters refer to corresponding parts in all the figures.

Referring to the drawings, A designates the jar, composed, preferably, of glass molded in any desired form. A circumferential groove, *a*, is formed in the upper part of the jar, along the top edge, for the reception of a packing-ring, *b*, which fits tightly around a flange, *c*, extending from the top of the jar. On each side of the jar is a recess shaped like an inverted T, and this T-shaped recess is for the purpose of allowing the ends of the clamping-yoke to engage with either wing of the recess and be held thereby.

C designates the recessed cover. The recess *d* of the cover is flaring at the outer ends, *e e'*, and said recess forms and leaves on each side of the same diagonal abutting walls *f f'*, which latter serve to guide and limit the clamping-yoke in its movements. Shoulders *g g'* are formed at suitable distances in the rim of the cover, and are adapted to protect the downward ends of the clamping-yoke from displacement.

D designates the clamping yoke or bail, extending across the cover and fitting within the recess of the same. This yoke has a flat upper portion with two depending legs, each of which is provided with fingers *h*, curved inwardly and adapted to fit within the recess in the jar. In operation the clamping-yoke is turned from one side to the other, and in this movement the yoke travels over the flaring outer ends, *e e'*, abutting against the walls *f f'*. As seen, the depending legs of the yoke abut against the shoulders *g g'*, and thus the legs are protected from lateral displacement, as stated. The said yoke is preferably constructed of heavy soft-iron, copper, or brass wire, which will admit of the necessary bending to form the fingers of the yoke. The under side of the cover is formed convex, as at *a'*, and the inside surface of the rim *a''* is beveled to fit nicely over the packing of the jar. The object of the convex curvature is to form an air-tight jar, as will be further mentioned.

The jar is sealed as follows: After filling the jar to its utmost the packing-ring is placed on, then the cover. The convex under surface of the jar-cover, by being pressed downward, causes the superfluous juice to be forced out over the sides of the jar. While pressure is being applied the clamping-yoke is put on over the cover, and fitting within the recess of the same, the fingers sitting within the T-shaped recesses of the jar. Then take hold of each leg of the clamping-yoke, turning one laterally in one direction and turning the other leg in the opposite direction. By this turning, one of the curved fingers is under the right-hand wing of one of the clamp-receiving recesses, while the other finger is under the left-hand wing of the opposite recess, and thus the clamp is securely fastened and the cover sealed. The jars are then washed to remove the overflow-



ing fruit-juice, and after drying they are ready  
for packing and transportation. For opening  
the jar, the legs of the yoke are turned in the  
opposite directions from what they are now,  
5 and the cover can then be removed.

By my method of sealing, an air-tight jar is  
insured, as there will be no space left in the  
jar, after the superfluous liquid has overflowed,  
for an air-space to exist. The slight trouble  
10 of washing the jars will be well worth that  
trouble when the accomplishment of the se-  
curing of an air-tight jar is taken into con-  
sideration.

It will be seen that my jars are very simple  
15 and inexpensive, that they can be readily and  
securely sealed, and are easily opened.

Having thus described my invention, what I  
claim is—

1. In fruit-jars, the combination, with the  
20 jar having vertical and lateral recesses in its  
top, of a cover provided with a recess flaring  
outwardly at each end, and a clamp fitting  
within the recess of the cover and the recesses  
of the jar, as set forth.

2. In fruit-jars, the combination, with the 25  
jar having vertical and lateral recesses in its  
top, of the cover provided with a recess flaring  
outwardly at each end, shoulders on the rim  
of the cover, and a clamp fitting within the  
recess of the cover and the recesses of the jar, 30  
as set forth.

3. In fruit-jars, the combination, with the  
jar having L-shaped recesses in the top, on each  
side, of the cover, provided with an outwardly-  
flaring recess in its top, shoulders on the rim 35  
of the cover, and a clamp engaging with the  
recess in the cover, and provided with fingers  
engaging with the recesses in the sides of the  
jar, as set forth.

In testimony that I claim the foregoing as 40  
my own I have hereto affixed my signature in  
presence of two witnesses.

HARRY CAIN.

Witnesses:

FRANK M. PORCH,  
W. A. VOGNE.