

(No Model.)

H. COTTRELL.
CLAMP FOR CAN COVERS.

No. 373,274.

Patented Nov. 15, 1887.

Fig. 1.

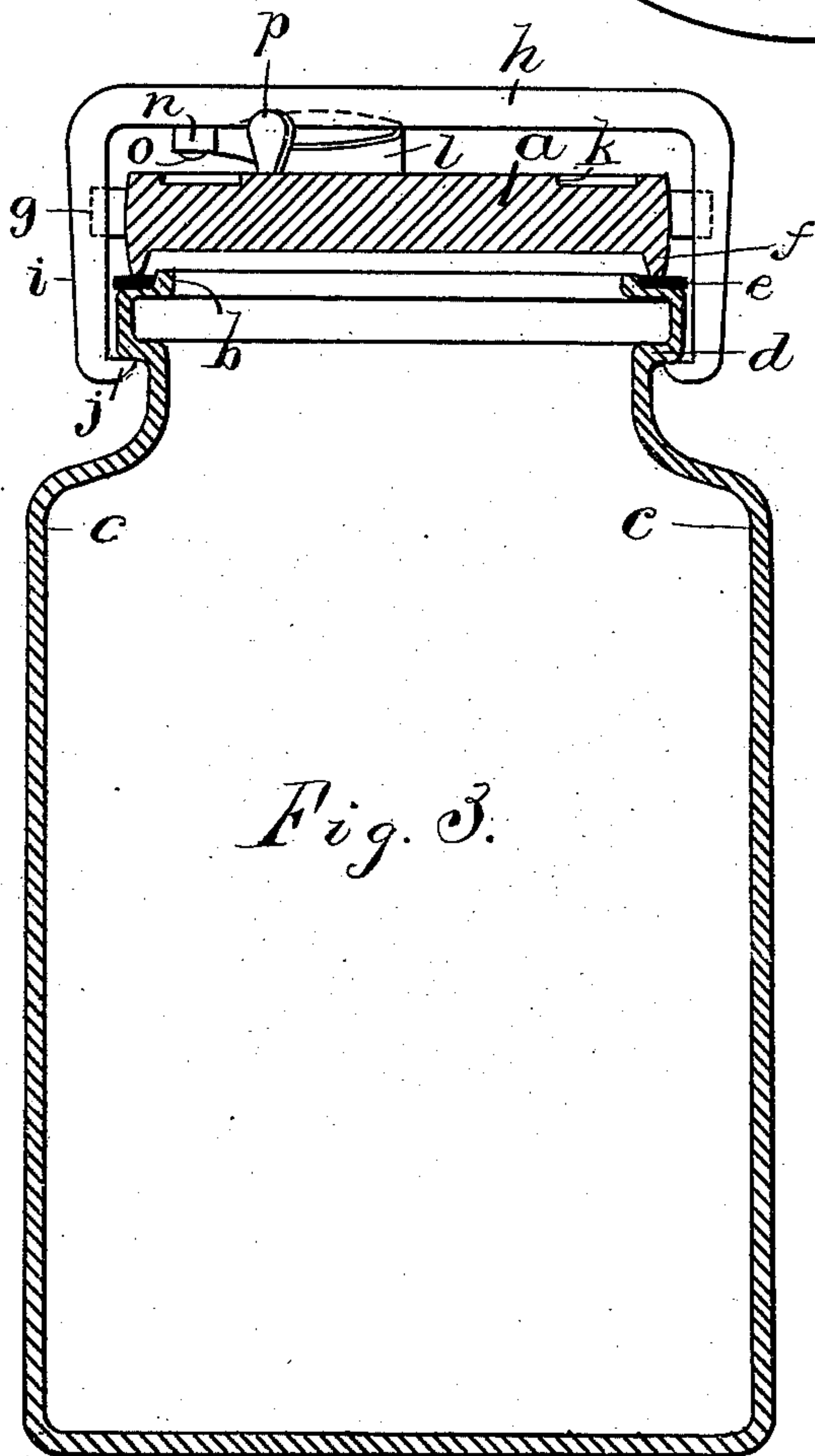
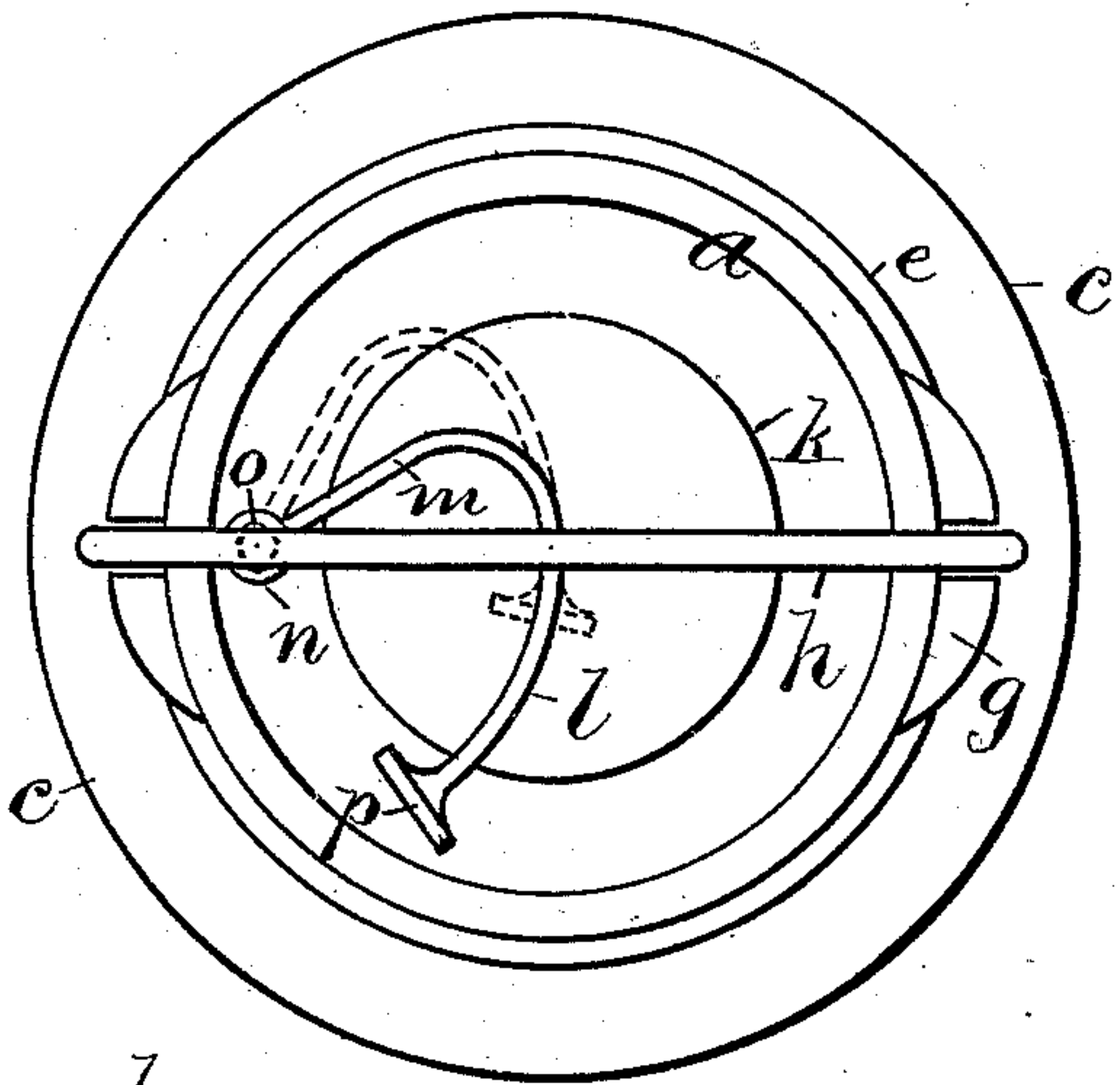


Fig. 3.

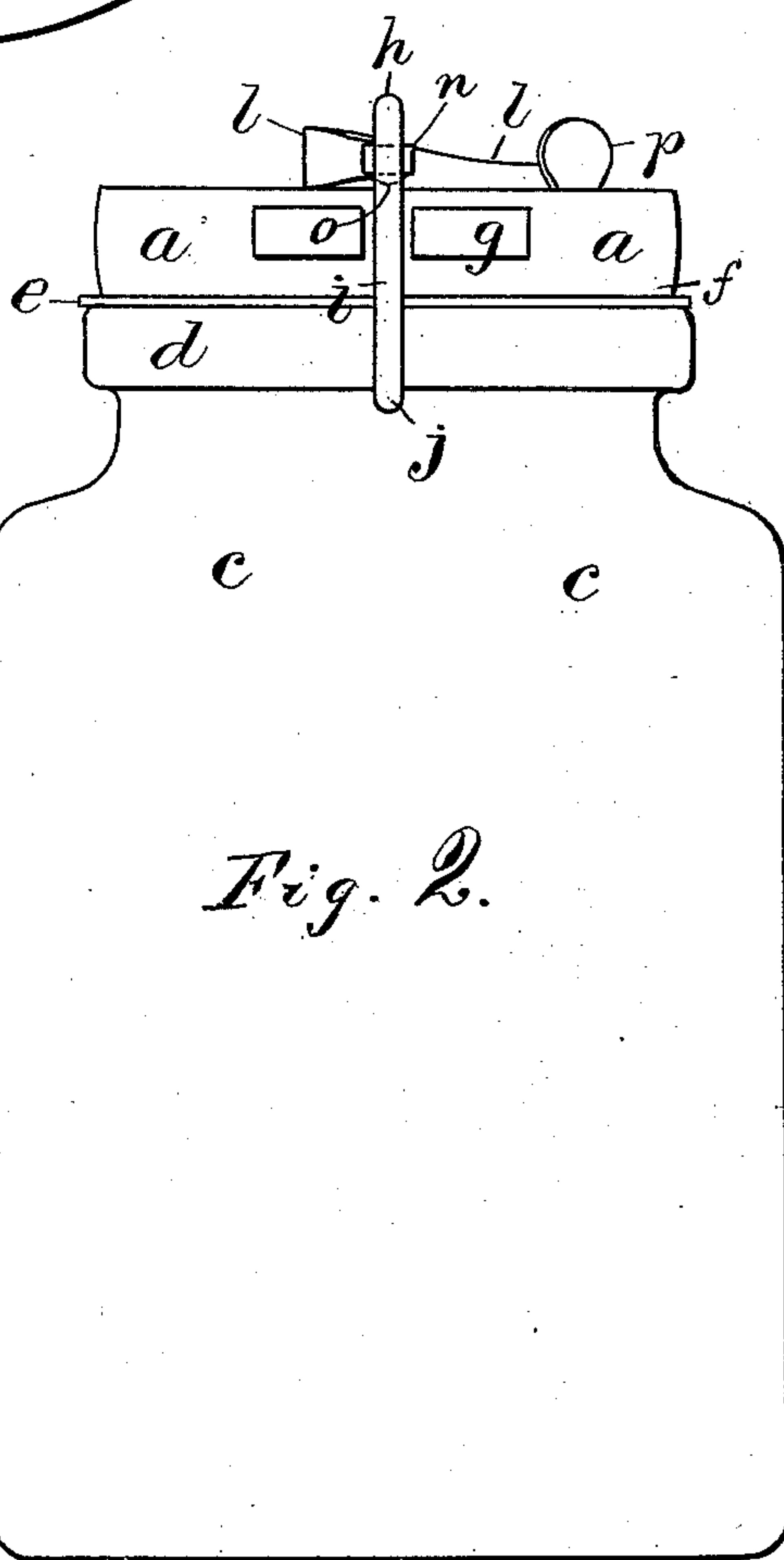


Fig. 2.

Attest:
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per Crane & Miller, Atty.

UNITED STATES PATENT OFFICE.

HERBERT COTTRELL, OF NEWARK, NEW JERSEY.

CLAMP FOR CAN-COVERS.

SPECIFICATION forming part of Letters Patent No. 373,274, dated November 15, 1887.

Application filed September 20, 1887. Serial No. 250,190. (No model.)

To all whom it may concern:

Be it known that I, HERBERT COTTRELL, a citizen of the United States, residing at Newark, Essex county, New Jersey, have invented certain new and useful Improvements in Clamps for Can-Covers, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

10 The object of this invention is to furnish a simple and cheap device for clamping a cover upon a preserving-can, the can and cover being preferably made of glass, with a rubber gasket inserted between the two to form a packing.

15 In my construction the neck of the can is provided with a lateral flange about the top, as in similar constructions, and a yoke is extended across the cover with ends extended downwardly and hooked under such flange, and the yoke is provided upon its under side with a swinging sector pivoted to the under side of the yoke near one edge of the cover, and having its concentric rim of wedge shape and fitted between the center of the yoke and cover, so that when turned upon its pivot it operates to press the cover firmly down upon the can.

20 The invention will be understood by reference to the annexed drawings, in which Figure 1 is a plan of the construction. Fig. 2 is an edge view of the can top and cover with the clamping device, and Fig. 3 is a vertical section of the can top and cover with the clamping device.

35 *c* is the can-top or upper part of the can-body; *b*, the neck projected up within the cover *a*.

40 *d* is the lateral flange about the top, *e* a rubber gasket seated upon such flange, and *f* an edge projected downwardly from the cover upon such packing.

45 *g* are lugs formed upon opposite sides of the cover to guide the yoke, which consists of the cross-bar *h*, having its ends bent downwardly at *i* and terminated in hooks *j* beneath the flange *d*.

50 The cover is shown formed on top with a central raised seat, *k*, and the clamping agent consists of a metallic sector, *l*, tapered longitudinally, as shown in Fig. 2, attached by an

arm, *m*, and eye *n* to a pivot, *o*, formed upon the under side of the yoke. The sector is provided with a thumb-piece, *p*, at its extremity, and its tapering rim bears upon the center of the yoke and upon the center of the cover, so as to distribute the pressure which it exerts equally upon the rubber packing. The taper of the sector is sufficient to permit the lifting of the cover above the top of the neck *b*, when the entire cover can be moved sidewise to release the hooks upon the yoke from the flange *d*.

When the can is filled, the cover is applied in a similar manner by sliding it laterally until the edge *f* fits around the neck *b*, when a single movement of the sector, effected by pressing upon its thicker end *l*, or upon the inner side of the thumb-piece *p*, suffices to wedge the cover downward upon the packing and to hold it permanently. The pivot *o* is formed integral with the yoke-piece *h*, and the sector or clamping-wedge is also cast complete with the eye *n*. The mere fastening of the eye upon the pivot *o*, by riveting the same, suffices to effect the connection of the two parts, and the entire device is thus fitted up with the least possible labor and weight of material.

80 The advantage of my construction lies in its simplicity and cheapness.

I hereby disclaim the general form of the yoke, the top of the can, and the fitting of the cover thereto, as such constructions have long been used; and I am also aware that various cams with wedge-shaped surfaces have been interposed between the yoke and the cover to clamp the latter to the can. Such devices have, however, always been pivoted at the center of the cover, and presented a much greater surface of contact with the cover than my device. I do not therefore claim, broadly, a wedge or cam fitted between the yoke and cover.

My invention differs from others in having its bearing-surface upon the center of the yoke and center of the cover, and operating upon a narrow line which is formed by the edges of the sector *l*. Such construction greatly diminishes the friction of the clamping device and enables the same amount of force, when applied thereto, to close the can more tightly, while it necessitates the location of the pivot near one side of the cover, and thus distinguishes my construction

from those cams or clamps which are pivoted at the center of the cover, and therefore require two inclined surfaces to operate at opposite points upon the yoke. The seat is provided upon the top of the cover to diminish the friction of the sector in contact with the cover; but such seat may be omitted without departing from my invention.

In a round can the flange *d* would be preferably formed around the entire top; but it may be formed at one part only, of sufficient size to engage the hooks *j* upon the yoke, and it is obvious that the can-top may be made square or of any other desired form, and the hooks secured thereto by other means than a continuous flange, if desired.

Having thus set forth my invention, what I claim herein is—

1. The combination, with the cover and the can-top, of the yoke fitted transversely above the cover and provided with hooks *j*, secured to the neck of the can by flange *d*, or its equivalent,

and the sector *l*, pivoted to the under side of the yoke and bearing upon the centers of the yoke and cover, as and for the purpose set forth.

2. The combination, with the cover and the can-top, of the yoke fitted transversely above the cover and provided with hooks *j*, secured to the neck of the can by flange *d*, or its equivalent, the seat *k* at the center of the cover, the yoke provided with integral pivot *o* upon its under side, and the sector *l*, tapered longitudinally and connected with the pivot *o* and provided with thumb-piece *p*, as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

HERBERT COTTRELL.

Witnesses:

THOS. S. CRANE,
L. LEE.