

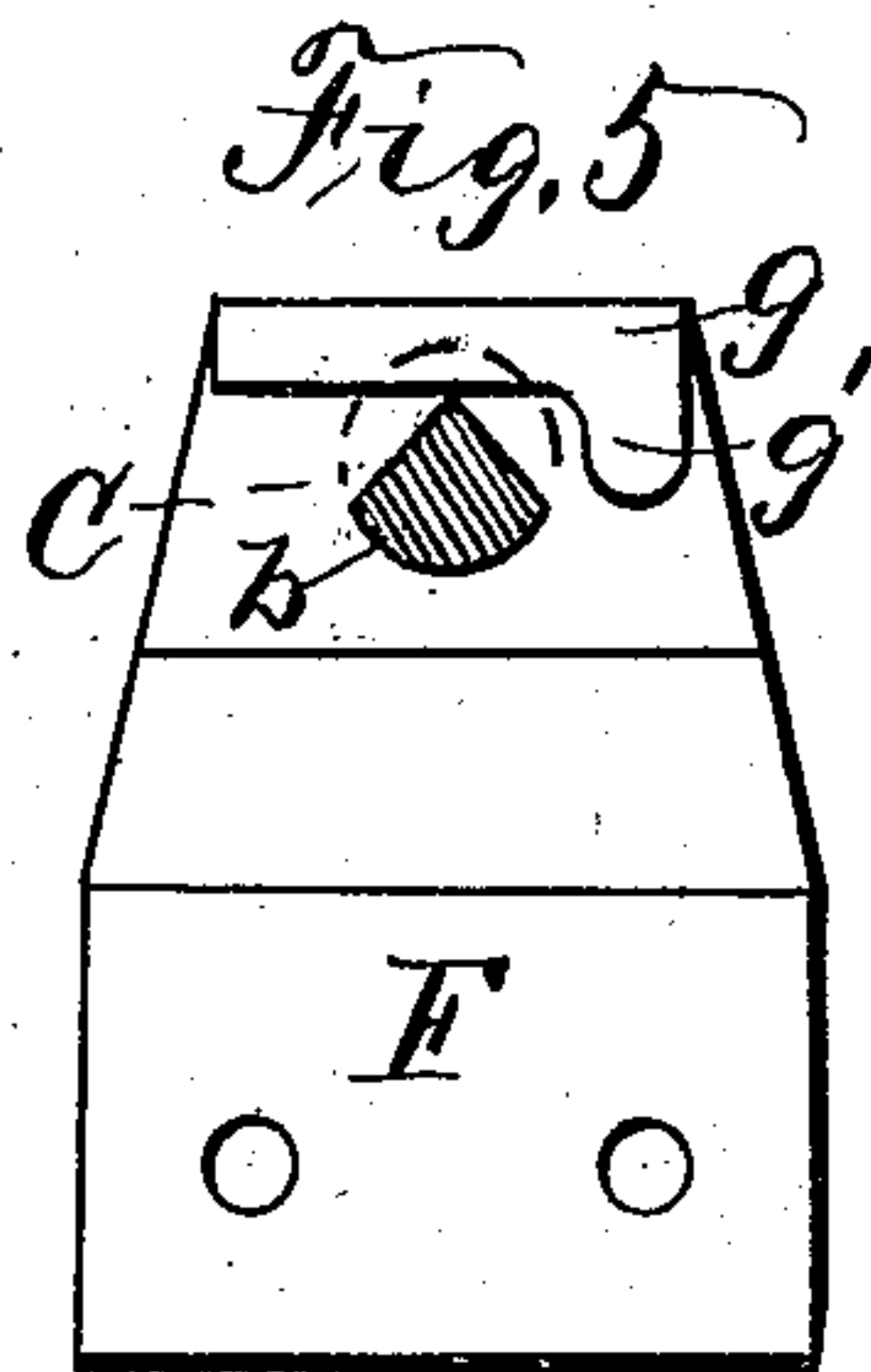
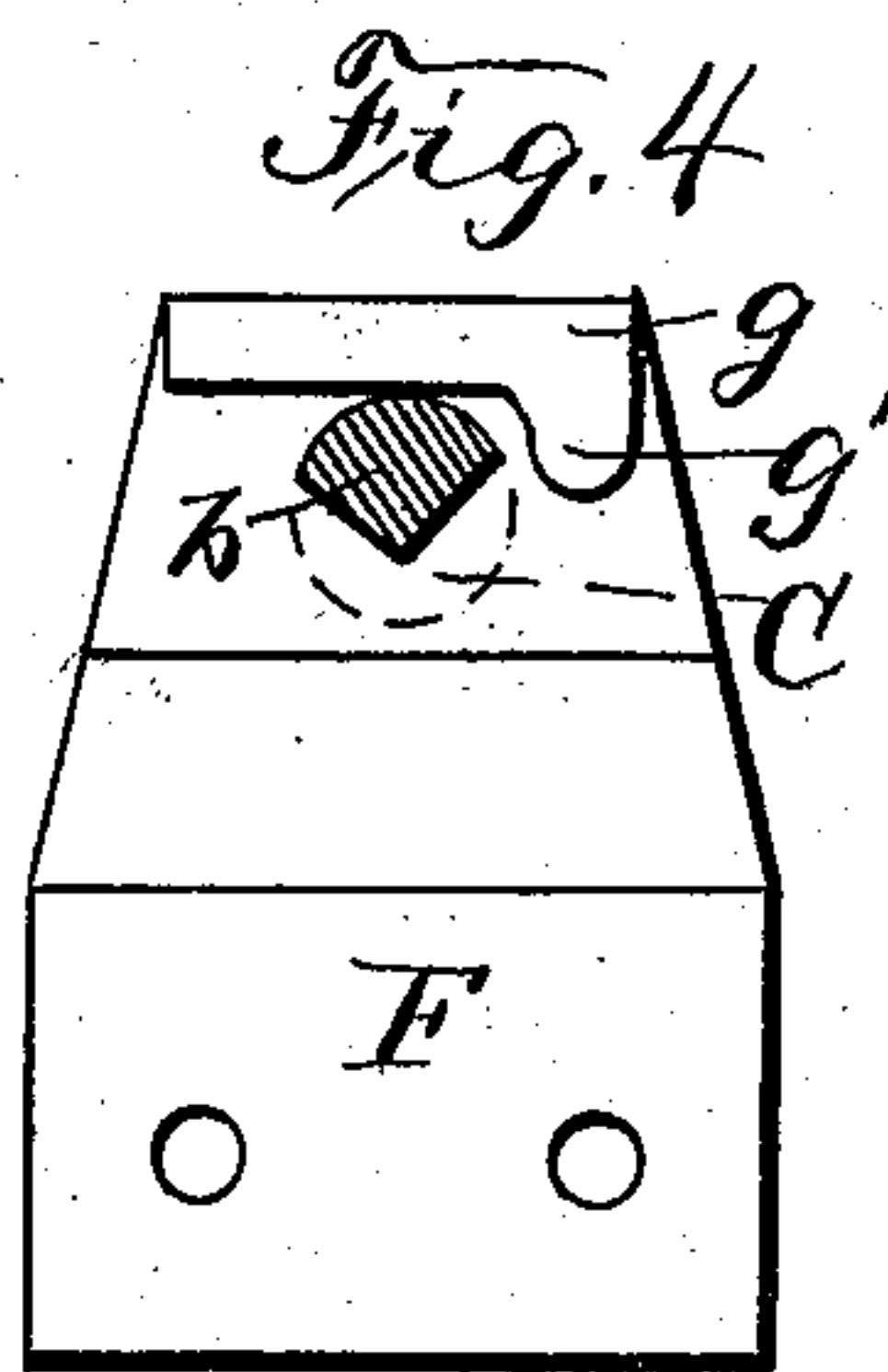
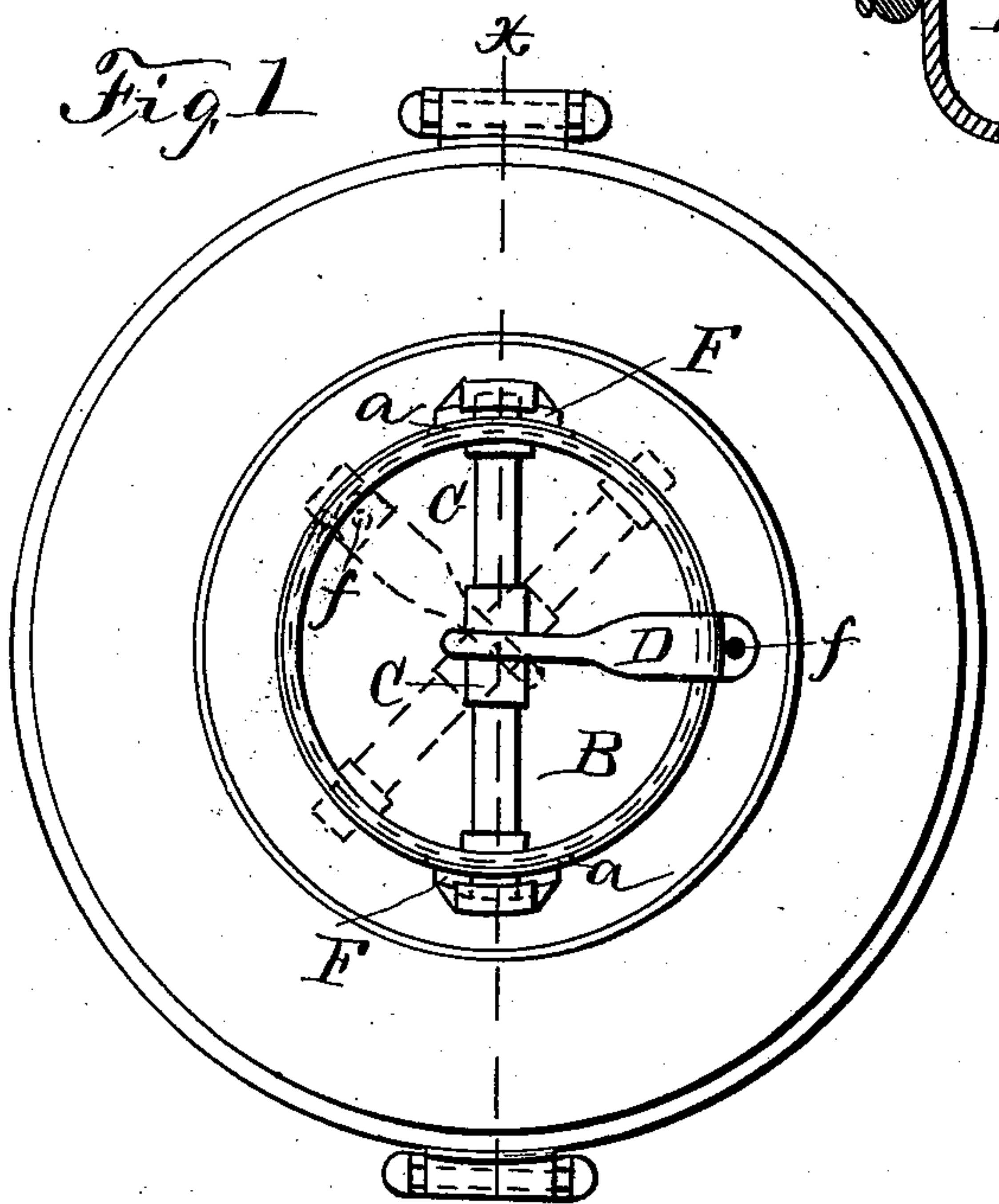
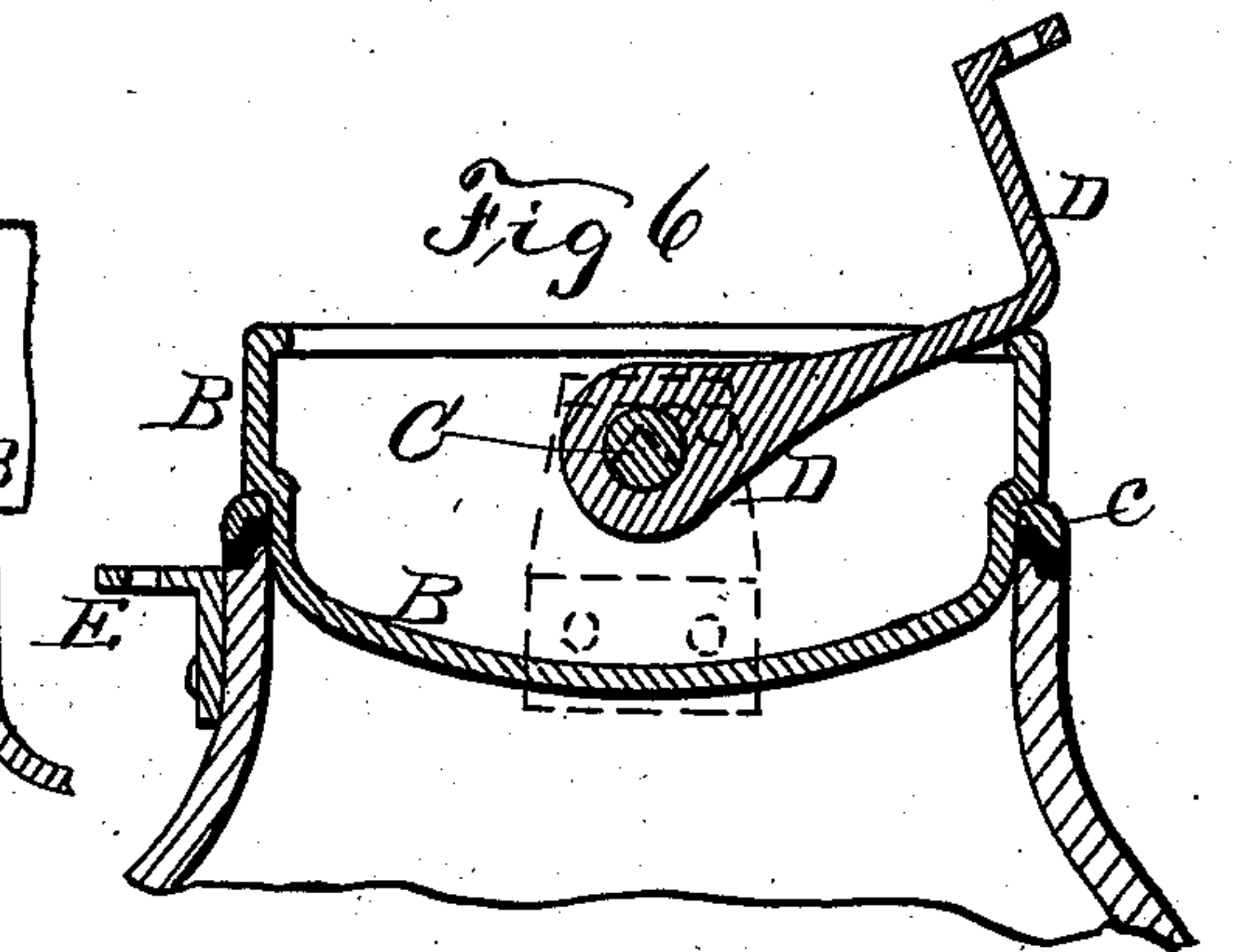
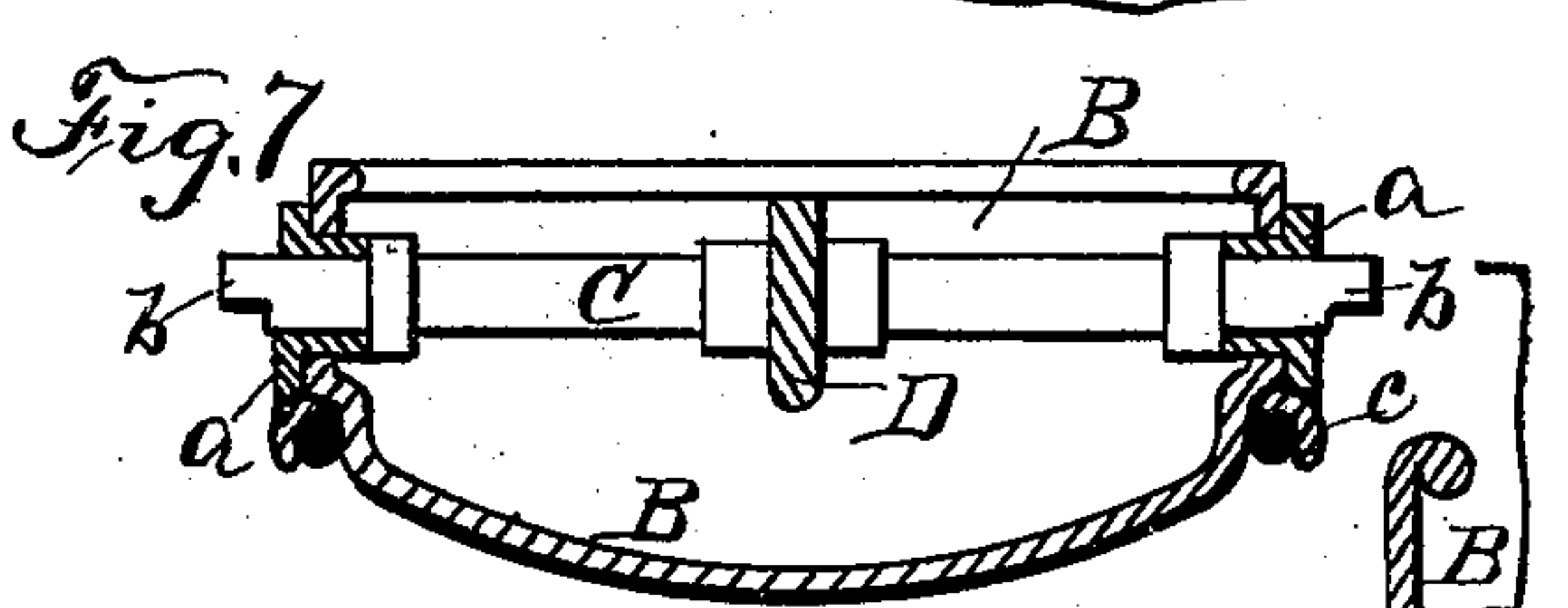
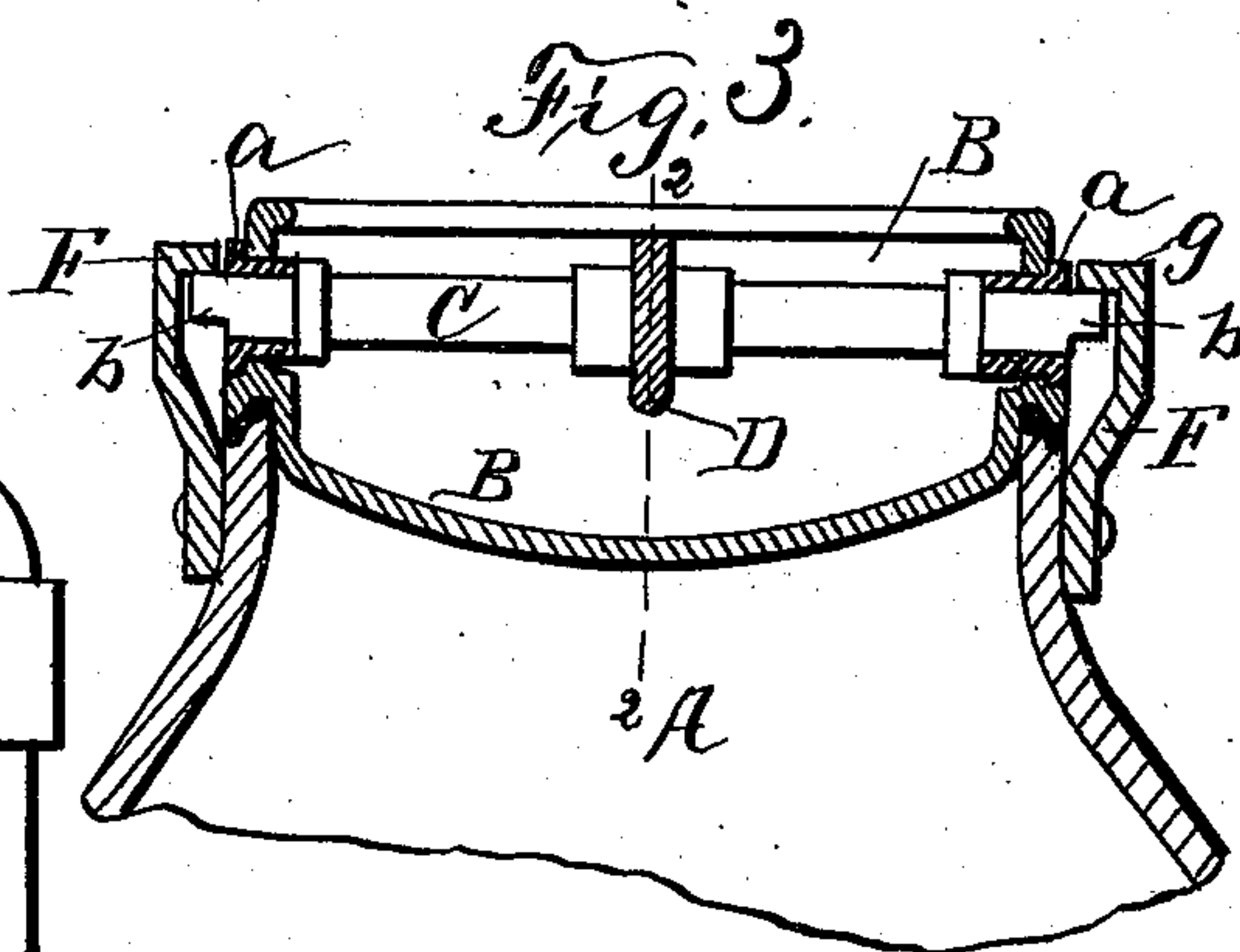
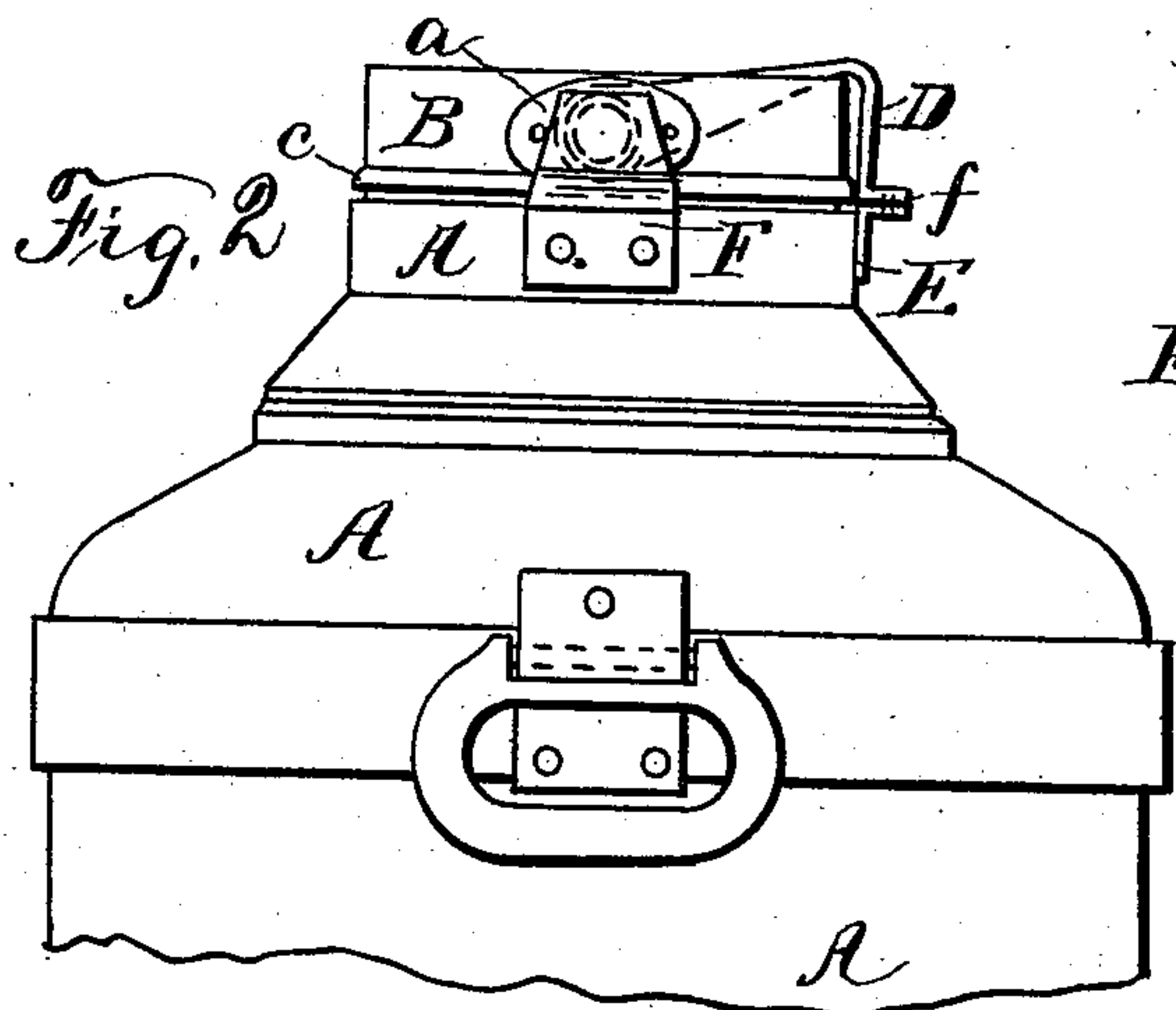
(Model.)

O. VON RODEN.

MEANS FOR CLOSING MILK CANS.

No. 376,690.

Patented Jan. 17, 1888.



Witnesses

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Chas. B. Mackrille

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# UNITED STATES PATENT OFFICE.

OTTO VON RODEN, OF NEW YORK, N. Y., ASSIGNOR TO THE VON RODEN MANUFACTURING COMPANY, OF NEW YORK.

## MEANS FOR CLOSING MILK-CANS.

SPECIFICATION forming part of Letters Patent No. 376,690, dated January 17, 1888.

Application filed June 5, 1886. Serial No. 204,279. (Model.)

*To all whom it may concern:*

Be it known that I, OTTO VON RODEN, of the city, county, and State of New York, have invented certain new and useful Improvements in Means for Closing Milk-Cans and other Vessels, of which the following is a specification.

This invention is more especially designed for milk-cans, but may also be applied to other vessels when desired. Its object is to enable the lid or cover to be compressed firmly and snugly down upon its seat to substantially hermetically close the vessel, and then to be so fastened that this closed position or condition of the lid shall be maintained during any required period of time.

My invention comprises certain novel constructions and combinations of parts whereby the said object is effectually secured.

Figure 1 is a plan view, Fig. 2 is a side view, and Fig. 3 a vertical transverse sectional view, taken on the line *x* of Fig. 1, representing my said invention as applied to a milk-can. Figs. 4 and 5 are detail views, on a larger scale, representing certain parts of an apparatus embraced in my said invention. Fig. 6 is a vertical section on the line 2 of Fig. 3, and Fig. 7 shows the cover in section.

A is the body of the milk-can or other vessel in connection with which my said invention is to be used, and B is the lid or cover thereof. The said lid or cover rests upon the top of the usual neck or opening of the can or vessel, and the relation of the said two parts may be of any usual or suitable construction. Extended through the lid or cover B is a shaft, C, the ends of which are supported or journaled in suitable bearings, *a*, provided at the circumference of the said lid or cover. Upon each end of this shaft is formed a cam or eccentric, *b*, the shape of which is more fully indicated in Figs. 4 and 5.

Extended laterally from this shaft is a hasp-arm, D, the outer extremity of which is so shaped as to extend down upon and act in conjunction with a bracket, E, which latter is attached to the can A. The hasp-arm and the bracket may be of any suitable construction and arrangement in relation with each other, so long as they may be brought in conjunction to secure the hasp-arm after the lid or cover

has been put in place upon the can or vessel, as represented in the drawings; and, as preferably constructed, the hasp-arm has a horizontal lip, *f*, with a vertical hole therethrough, and the bracket is arranged horizontally to correspond with the position of this lip and has a corresponding hole therethrough, so that when the holes are brought coincident the shank of a padlock may be passed through them and the padlock when closed or locked secures the two together, the purpose of which will hereinafter appear.

Screwed upon or connected to the opposite sides of the neck or top of the can or vessel A are two lugs or ears, F, at the inner side of each of which is a shoulder, *g*, provided with a downwardly-projecting stop, *g'*, for limiting the axial movement of the lid when the shaft C strikes said stop, as represented more fully in Figs. 4 and 5. When it is desired to apply the lid or cover to close the can or vessel, the former is placed upon the latter, with the cams or eccentrics *b* in the position indicated in dotted outline in Fig. 1, and with the hasp-arm thrown over upon its back, as also indicated in dotted outline in said figure. An axial movement is then given to the cover to bring the cams or eccentrics under the shoulders *g* of the lugs or ears F, the cams or eccentrics being in the position first described—*i. e.*, depressed to permit them to pass under said shoulders. The cams or eccentrics being thus brought under the shoulders *g*, the hasp-arm is turned over, thereby giving substantially half a turn to the shaft C and bringing the lip *f* down upon the bracket E. This movement of course turns the cams or eccentrics, so that they bear upward against the shoulder *g*, and consequently forces the lid or cover firmly downward upon its seat, thereby hermetically closing the opening or mouth of the can or vessel. The shape of the cams or eccentrics is preferably such that they will retain their places when brought into position, as just described; but for the sake of security and the prevention of accidents it is preferred that a padlock or other suitable fastening device should be employed to connect the hasp-arm with the bracket.

The cover is cup shaped, and is therefore



open at its top, so that its hasp arm-closing device works within the open top. The bearings of the shaft are formed in thimbles *a*, as seen in Figs. 3 and 7, so that the shaft can be easily-  
5 put in position before the thimbles are, and the latter are then riveted by their flanges to the cover, so that the cam ends of the shaft project out beyond the thimble-flanges. The packing-confining flange *c* is preferably a separate ring-piece soldered onto the cover at the  
10 shoulder formed in its vertical walls, and I prefer to stamp the cup-cover of sheet metal with such shoulder.

What I claim as my invention is—

- 15 1. The combination of the vessel A, having flanged lugs F *g*, the cover B, having the cross-

shaft C journaled therein, formed with end cams, the hasp D, secured upon said shaft and terminating in a lip, *f*, at its free end, and the fastening-bracket E for said hasp secured to  
20 the cam, substantially as shown and described.

2. The combination of the vessel A, having the flanged lugs F *g*, and the stop *g'*, the cover B, having the cross-shaft journaled therein, formed with end cams, the hasp D, secured  
25 upon said shaft and terminating in the lip *f*, and the fastening-bracket E for said hasp, substantially as shown and described.

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Witnesses:

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