

(Model.)

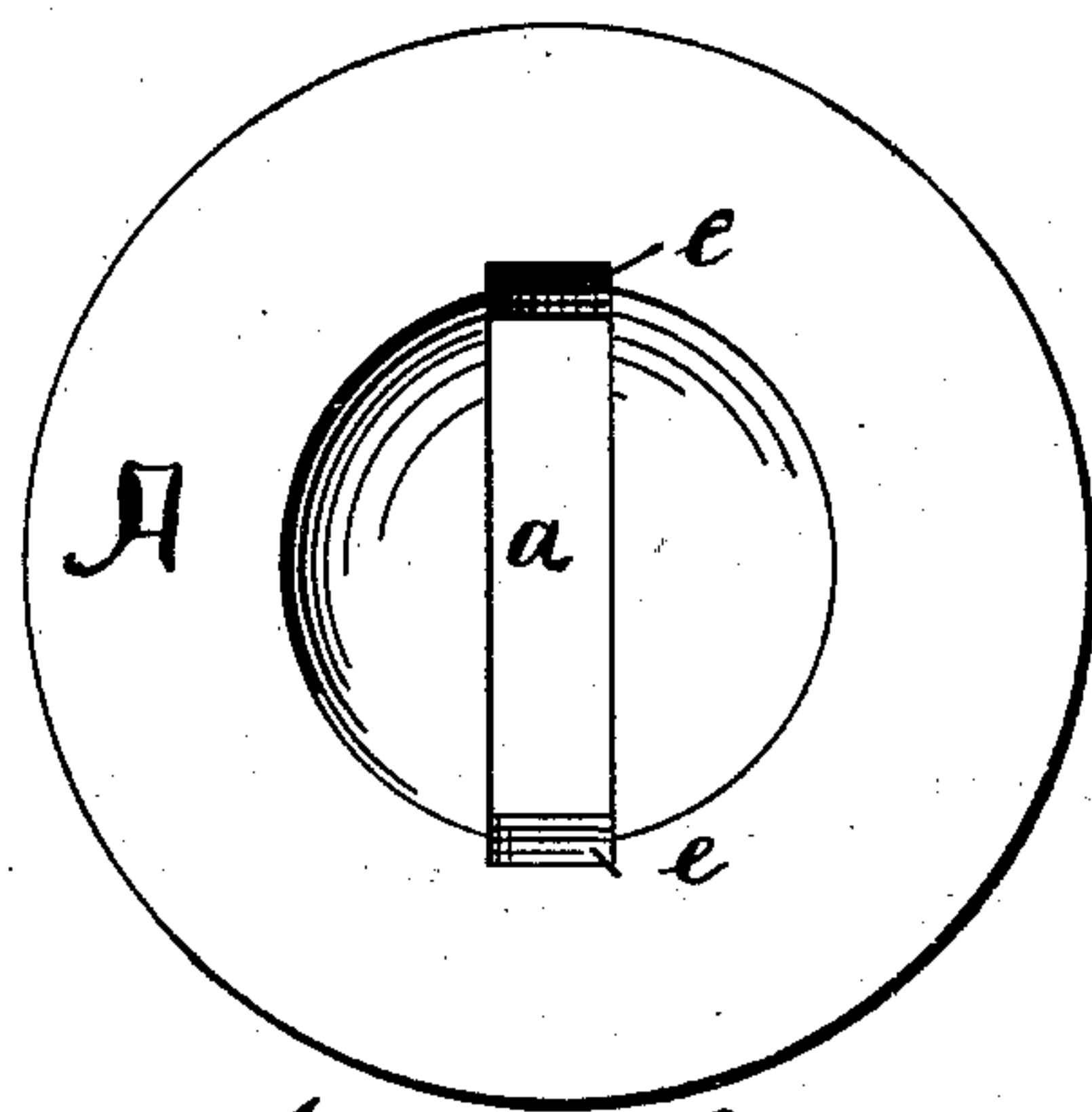
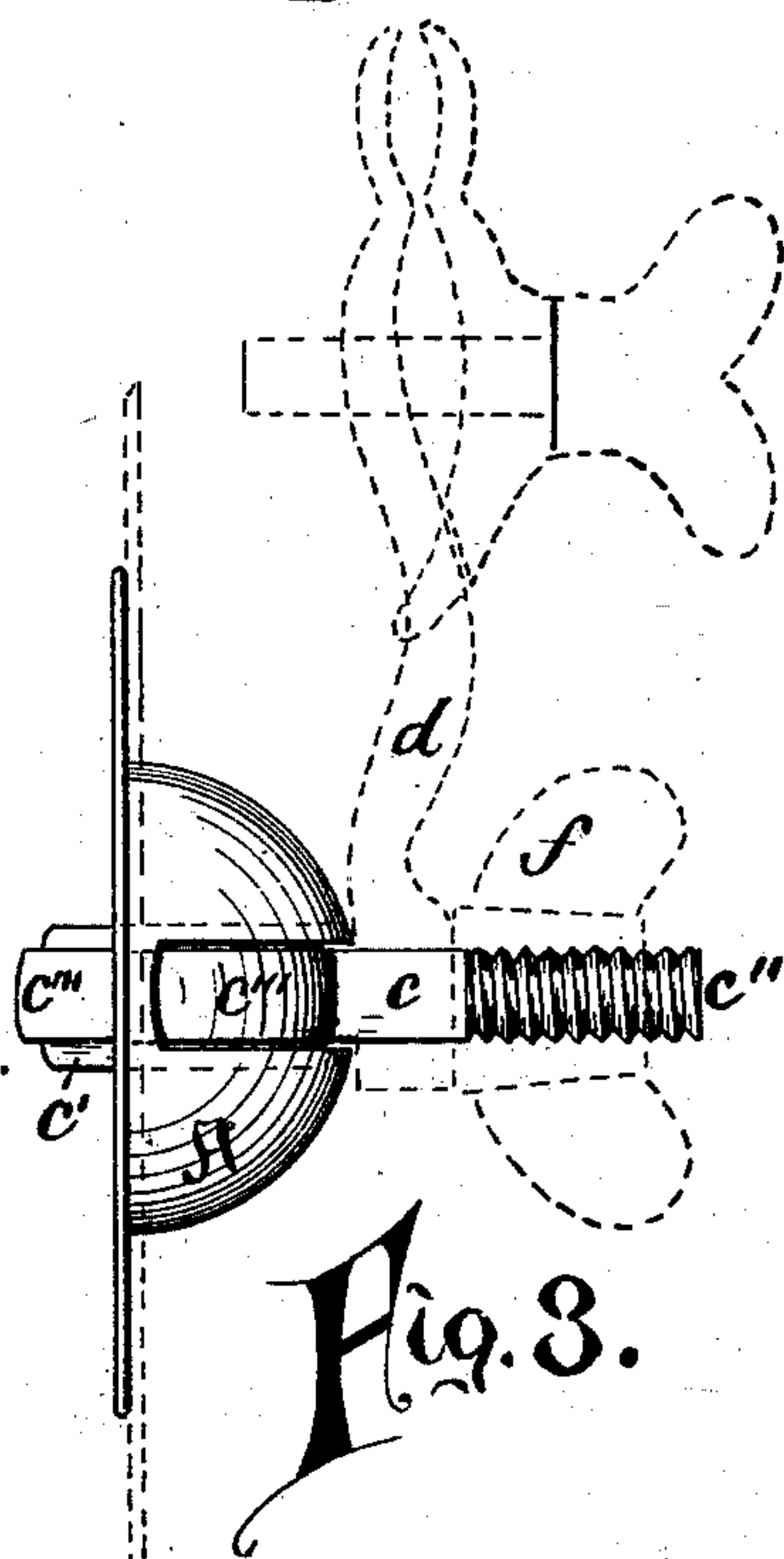
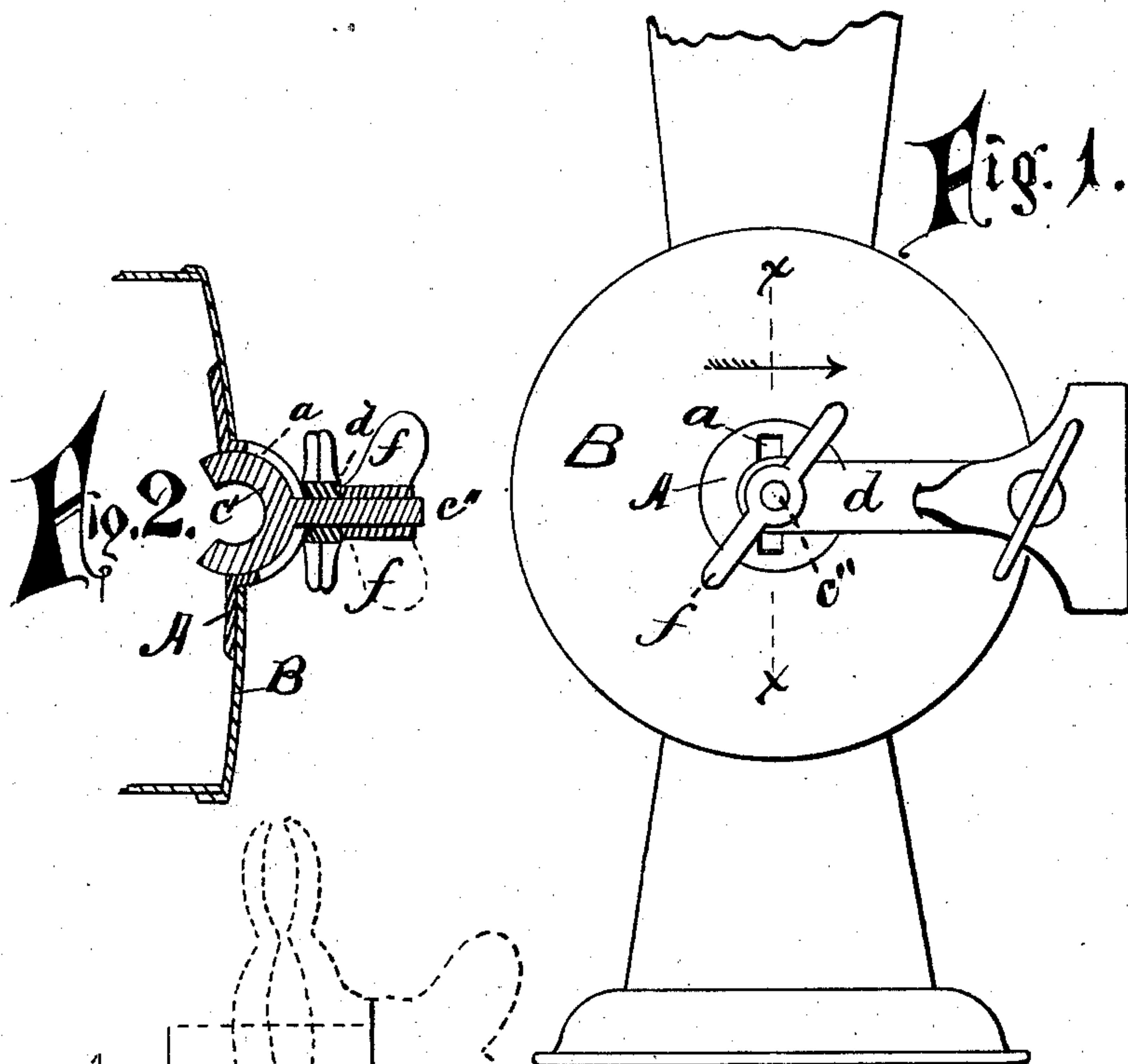
3 Sheets—Sheet 1.

W. WALTER.

Adjustable Attachment for Carriage Lamps.

No. 239,411.

Patented March 29, 1881.



Witnesses:

Charles H. Bell
Chas. H. Bell

Inventor:

William Walter.
By O. Drake, Atty.

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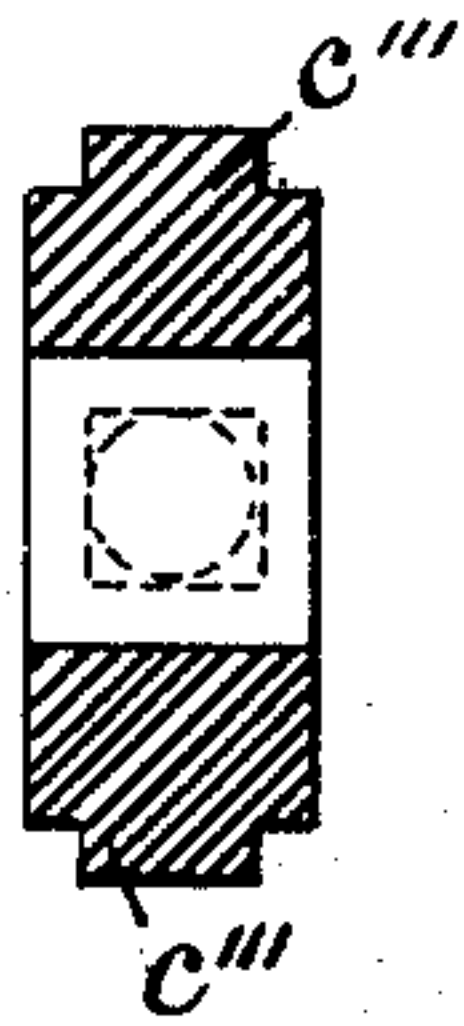


Fig. 6.

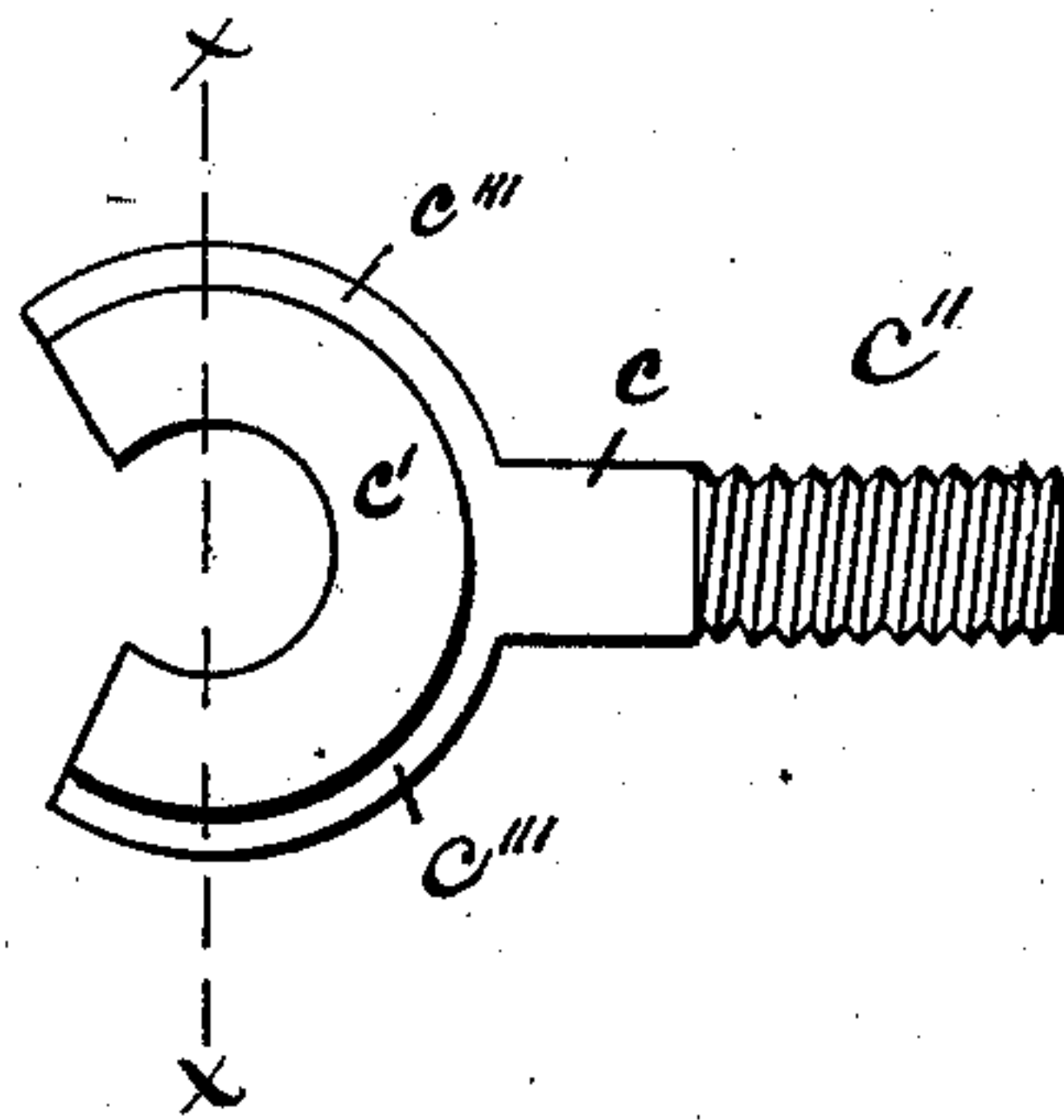


Fig. 5.

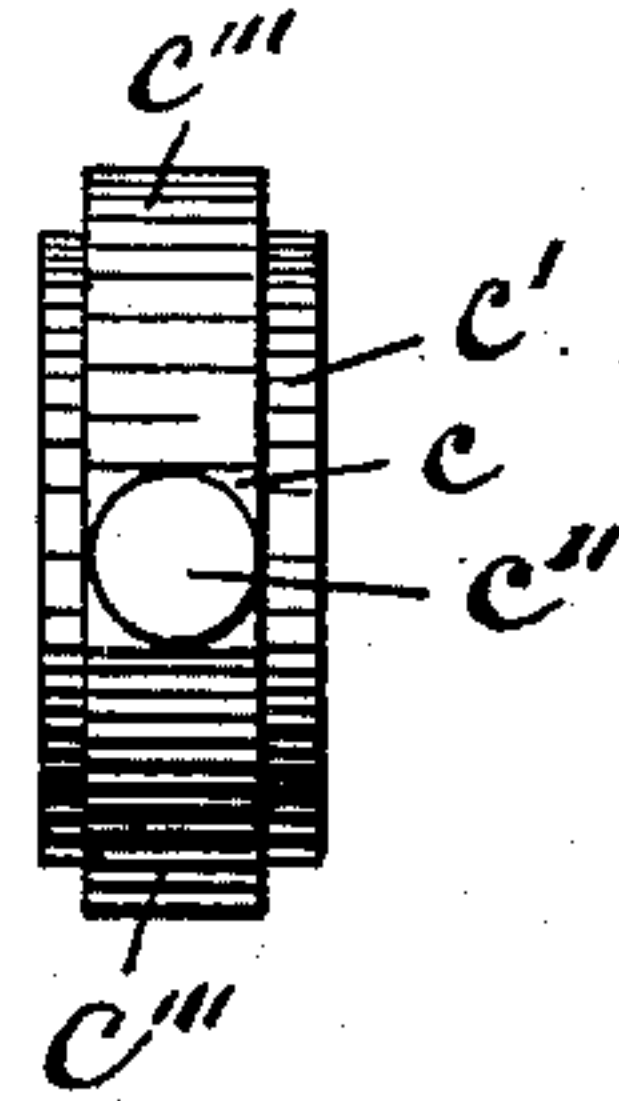
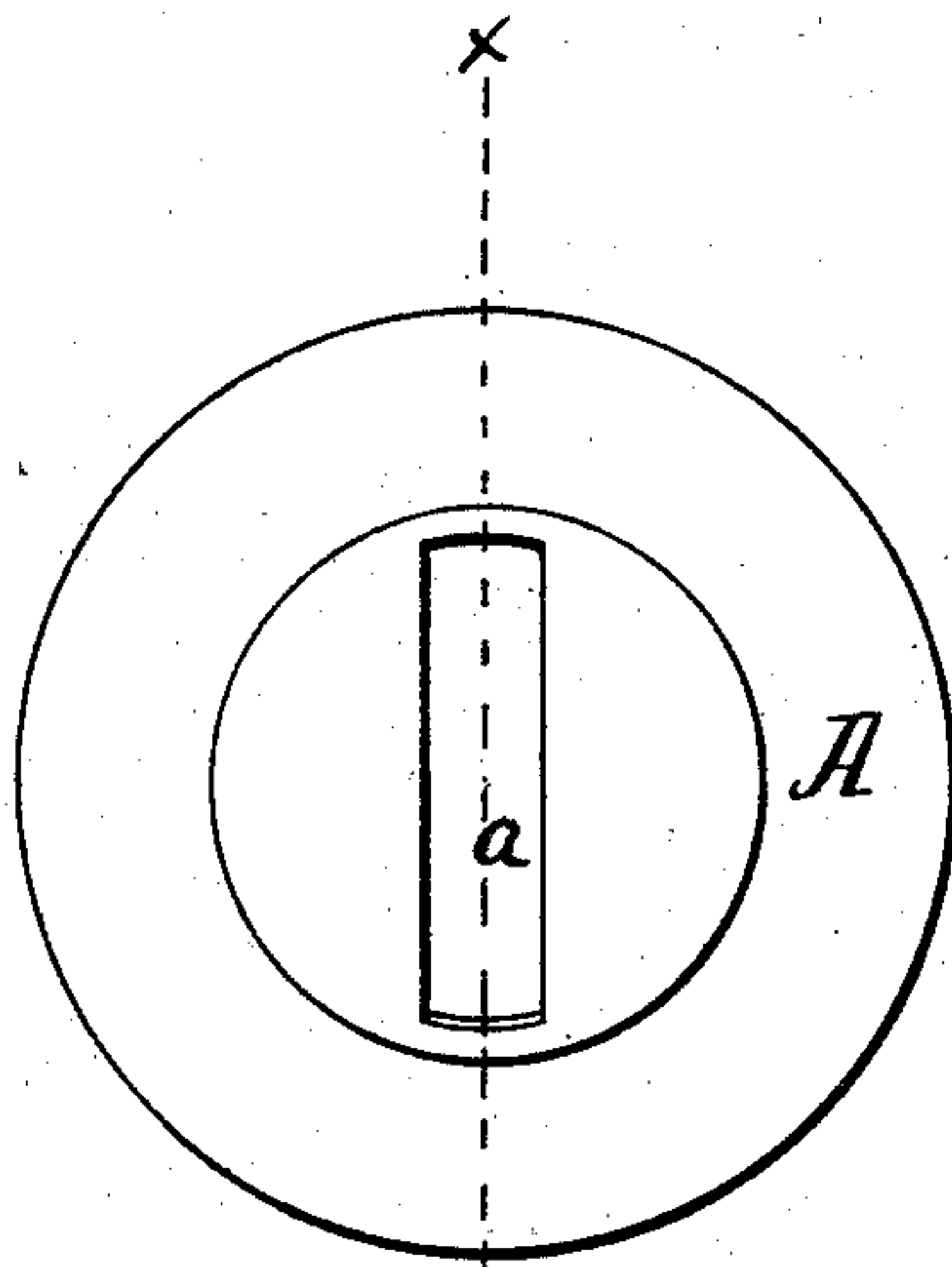


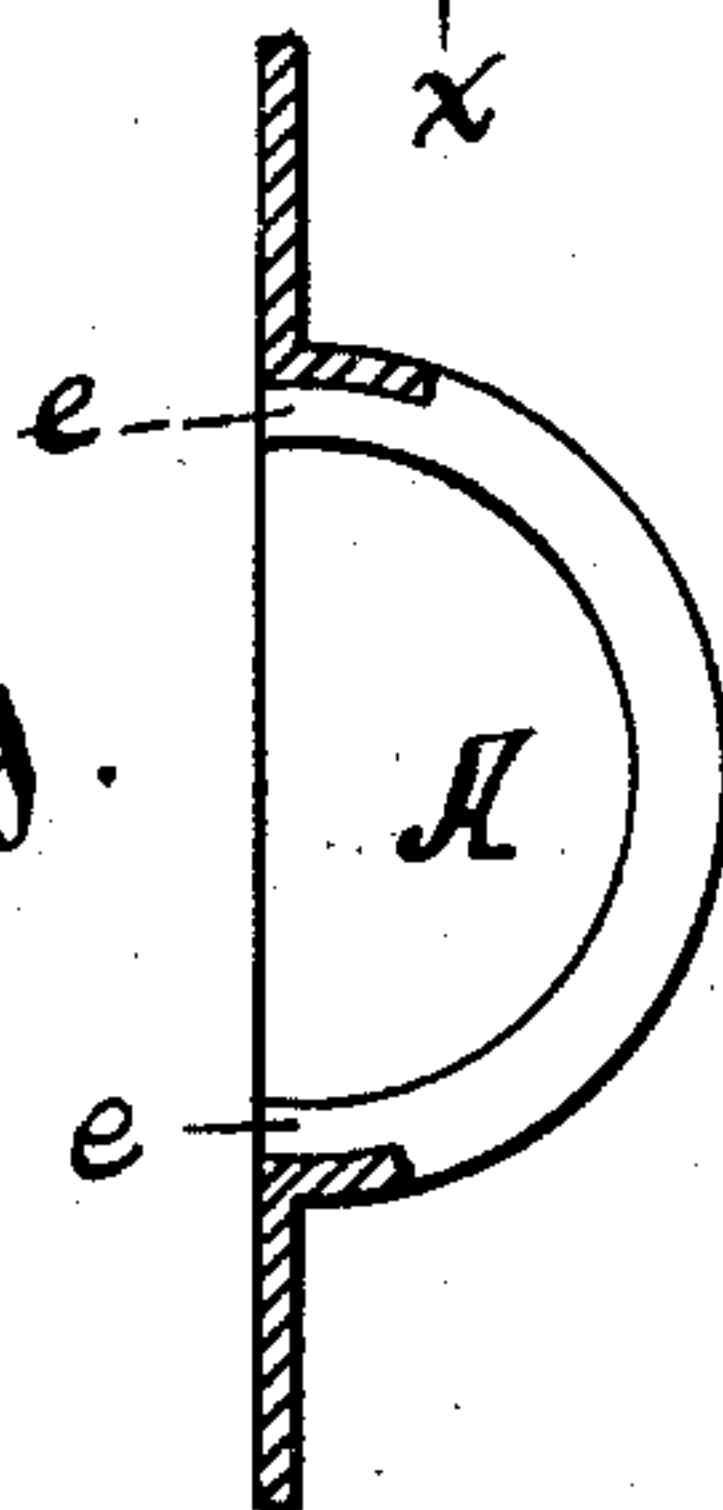
Fig. 7.

Fig.



8.

Fig.



9.

Witnesses:
Charles H. Pell
Chas. Herr.

Inventor:
William Walter,
By O. Drake, Atty.

(Model.)

3 Sheets—Sheet 3.

W. WALTER.

Adjustable Attachment for Carriage Lamps.

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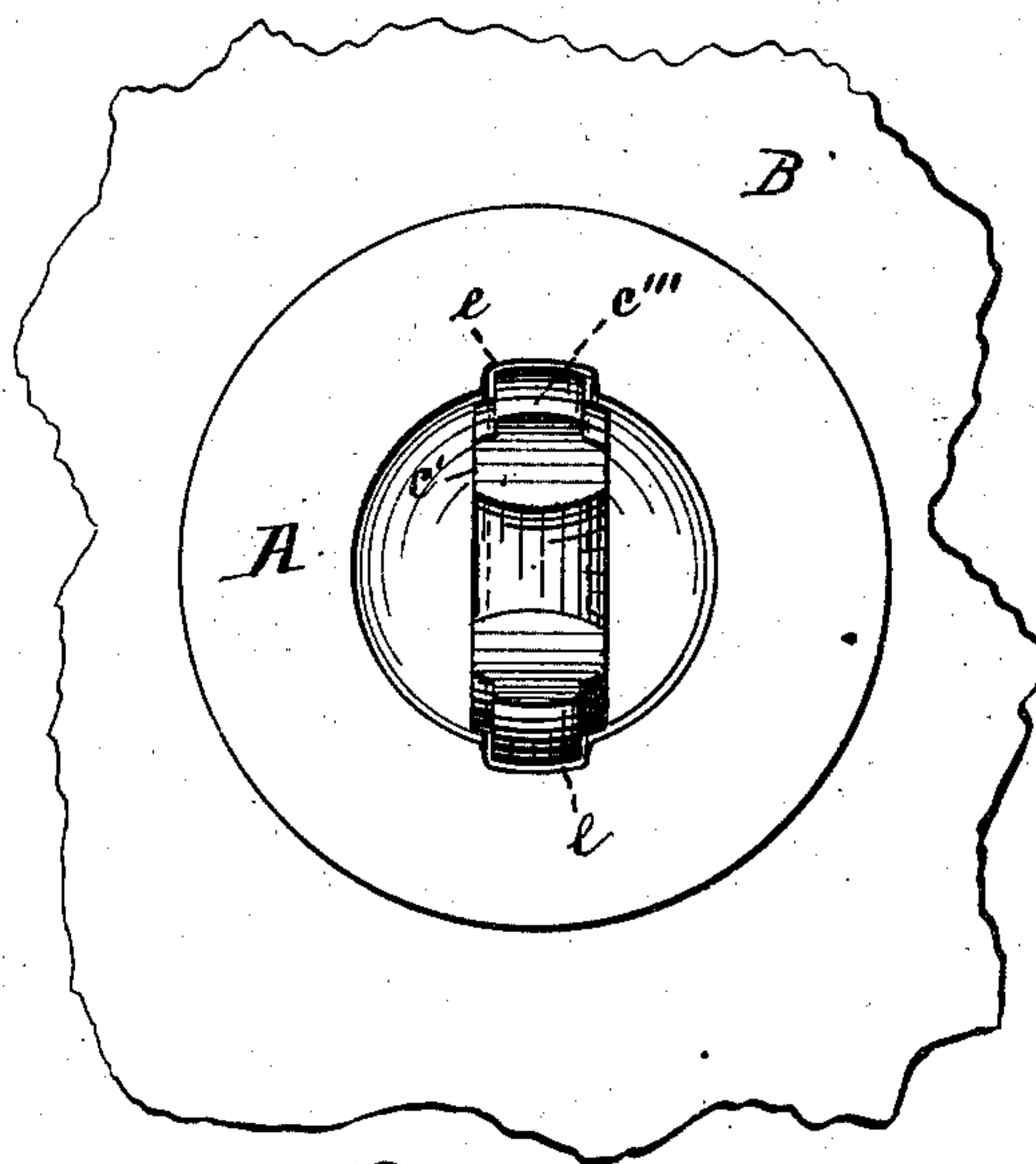


Figure 10.

Attest:

Charles H. Pell
Chas. Herr.

Inventor

William Walter,
O. Drake. by
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM WALTER, OF NEWARK, NEW JERSEY, ASSIGNOR TO C. N. LOCKWOOD & CO., OF SAME PLACE.

ADJUSTABLE ATTACHMENT FOR CARRIAGE-LAMPS.

SPECIFICATION forming part of Letters Patent No. 239,411, dated March 29, 1881.

Application filed October 18, 1880. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM WALTER, of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Adjustable Attachments for Carriage-Lamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to increase the utility of the lamp to which it is attached by rendering it capable of being clamped upon either the right or left edge of the dash-board, upon the top thereof, or upon any appropriate part of the carriage capable of receiving the clamping-jaws, allowing the lamp to be adjusted vertically regardless of the angle of inclination or position of the part to which it is attached. A further object is to render the lamp clamped upon the dash-board, or other convenient part of the carriage, capable of being so adjusted as to send the light in any direction desired.

Heretofore carriage-lamps have either been permanently attached to the carriage or adjustably fastened thereto. In the latter case a prominent method has been to attach the lamp by means of a clamping device adapted to secure the lamp to the dash-board of the carriage; but by the said clamping device the same said device was adapted to allow of being fastened to but one edge of the dash-board—that is to say, if the fixtures were intended to be used upon the upper edge of the dash-board they were incapable of being applied to either the right or left edges of the same without interfering with the working of the lamp. It was necessary, therefore, to have the attachments suited to the position. Should the edge to which the device was adapted to be applied be so constructed as to be incapable of receiving the clamp of said fixtures, it was necessary to procure one adapted to engage with one of the other edges. Could no such fixture be obtained the lamp was rendered in a degree worthless.

To overcome these defects I have constructed the device forming my invention, which is capable of being applied to the top of the dash-board, to either of the sides thereof, or to any appropriate part of the carriage capable of receiving the clamping-jaws.

The invention consists in the combination, with the carriage or coach lamp, of adjustable clamping-fixtures adapted to allow said lamp to be held in the usual upright position upon either the right or left hand sides of the dash-board, the top thereof, or in any similar situation upon said carriage capable of receiving the clamping-jaws, substantially as will be herein more fully set forth and illustrated.

It consists, further, in the combination, with the lamp, of a projecting arm pivoting in or upon said lamp, substantially as in the manner shown, of a clamp-carrying arm, *d*, adapted to lie in any desired position in a plane intersecting at right angles the plane of action of said projecting arm, for the purposes specified.

It further consists, in the combination, with a coach or carriage lamp, of a slotted and socketed plate, substantially as will be shown, an arm projecting from and working in the same, having a head conforming, as will be indicated and described herein, to said socketed plate, and also having an angular shank and threaded extremity, a clamp carried by said arm, and a thumb-screw engaging with said threaded extremity and holding the parts rigidly in combination.

It finally consists in the further combination and more definite conformations of parts, as will be hereinafter more fully described, illustrated, and finally claimed.

Referring to the accompanying drawings, in which similar letters of reference indicate like parts in each of the several figures, Figure 1 represents a back elevation of a coach-lamp to which my invention has been applied. Fig. 2 is a partial section of the same, taken through line *x*, the view taken as indicated by the arrow. Fig. 3 is a detached view of the socketed plate and projecting arm, the clamp attached thereto being shown in dotted outline. Figs. 4 to 9, both inclusive, are detail views, showing the form of construction of the socketed plate, and projecting arm having a

peripherically-ridged head; and Fig. 10 is a rear view of the socketed plate and projecting arm working therein, more clearly illustrating the manner of engagement of said arm with
5 said socketed plate.

In carrying out the invention, I attach, by soldering or any other appropriate method, the plate A (of which Figs. 4 and 8 are back and front representations, and Fig. 9 a section
10 taken through line *x* of Fig. 8) to the back plate, B, of the lamp, the slotted socket of the former projecting through the latter, as plainly indicated in Fig. 2. I may fasten the plate
15 directly to the outside of the back plate, B; but the method described evidently makes a better piece of workmanship. Said plate A has, in the socket before mentioned, the slot *a*, which is continued, in a manner illustrated by Figs. 3, 4, and 9, at each end by the re-
20 cesses *e*. Through said slot projects the clamp-carrying arm *c c' c''*, which has its outer extremity, *c''*, threaded to receive a thumb-nut, an angular shank, *c*, to engage with a corresponding perforation in the clamp-arm *d*, and,
25 finally, it has a cross-head, *c'*, conforming to the before-mentioned socket in the manner shown. The said cross-head *c'* has thereon a peripheral ridge, *c'''*, Fig. 3, which engages with the recesses *e*, Fig. 4, and is thereby pre-
30 vented from turning radially in the socket, as will be apparent. The arm *d* of the clamp has an angular perforation therein, into which the before-mentioned angular shank *c* is received; but the clamp on said arm is constructed substantially as now commonly used
35 for the purpose, and separately forms no part of my claims; and, again, I can substitute for the said clamp a plate having the same perforated arm, adapted to be screwed or other-
40 wise fastened to the stable-wall or other convenient place. Usually both the plate and clamp will accompany the lamp when sold.

The manner of operating my invention is as follows: The clamp-carrying arm *c c' c''* pro-
45 jecting from the socket has a vertical swing or center movement, as illustrated more clearly in Fig. 2. This enables the lamp to be held in an upright position with but little reference to the position of the clamping-jaws. The clamp-
50 ing-arm *d* can be placed upon the projecting shank *c* in as many positions as there are sides and angles therein. In the present case the said shank having four angles and the angular perforation in the arm *d* corresponding, the
55 said arm *d* can, evidently, be placed in four positions—an upper and lower vertical, and a

right and left horizontal. The latter positions enable the same lamp to be held either on the right or left side of the carriage—a new and useful feature of improvement never before
60 possessed by attachments for the purpose of adjusting lamps to carriages.

It is evident that by increasing the number of angles upon the shank *c* of the arm, and in the corresponding perforation in the arm *d*, the
65 number of positions of the clamping-arm can be increased indefinitely.

Having thus described my invention, what I claim, and wish to have secured by Letters Patent, is—
70

1. The combination, with a coach or carriage lamp, of a slotted and socketed plate formed substantially as shown, an arm projecting from and adapted to work in the same, having a head conforming, as indicated, to said socketed
75 plate, and a shank, a clamp carried by said arm, and means for securing said clamp on said shank and holding the parts rigidly in combination, the several parts being arranged and operating substantially as and for the purposes
80 set forth.

2. The combination, with the coach or carriage lamp, of a slotted and socketed plate formed substantially as shown, an arm projecting from and adapted to work in the same,
85 having a head conforming, as indicated, to said socketed plate, and also having an angular shank and threaded extremity, a clamp carried by said arm, and a thumb-nut engaging with said threaded extremity and holding the
90 parts rigidly in combination, all the parts being arranged and adapted to operate substantially as and for the purposes herein shown and described.

3. In coach or carriage lamp attachments, the combination, with the back plate, B', of the
95 socketed plate A, having the slot *a* therein, and the arm *c c' c''*, having the head *c'* conforming to and adapted to work in said socket, said head having the ridge *c'''* thereon adapted
100 to engage with a corresponding recess, *e*, in the plate A, all arranged and operating substantially as and for the purposes set forth and shown.

In testimony that I claim the foregoing I
105 have hereunto set my hand this 5th day of October, 1880.

WILLIAM WALTER.

Witnesses:

CHARLES H. PELL,
OLIVER DRAKE.