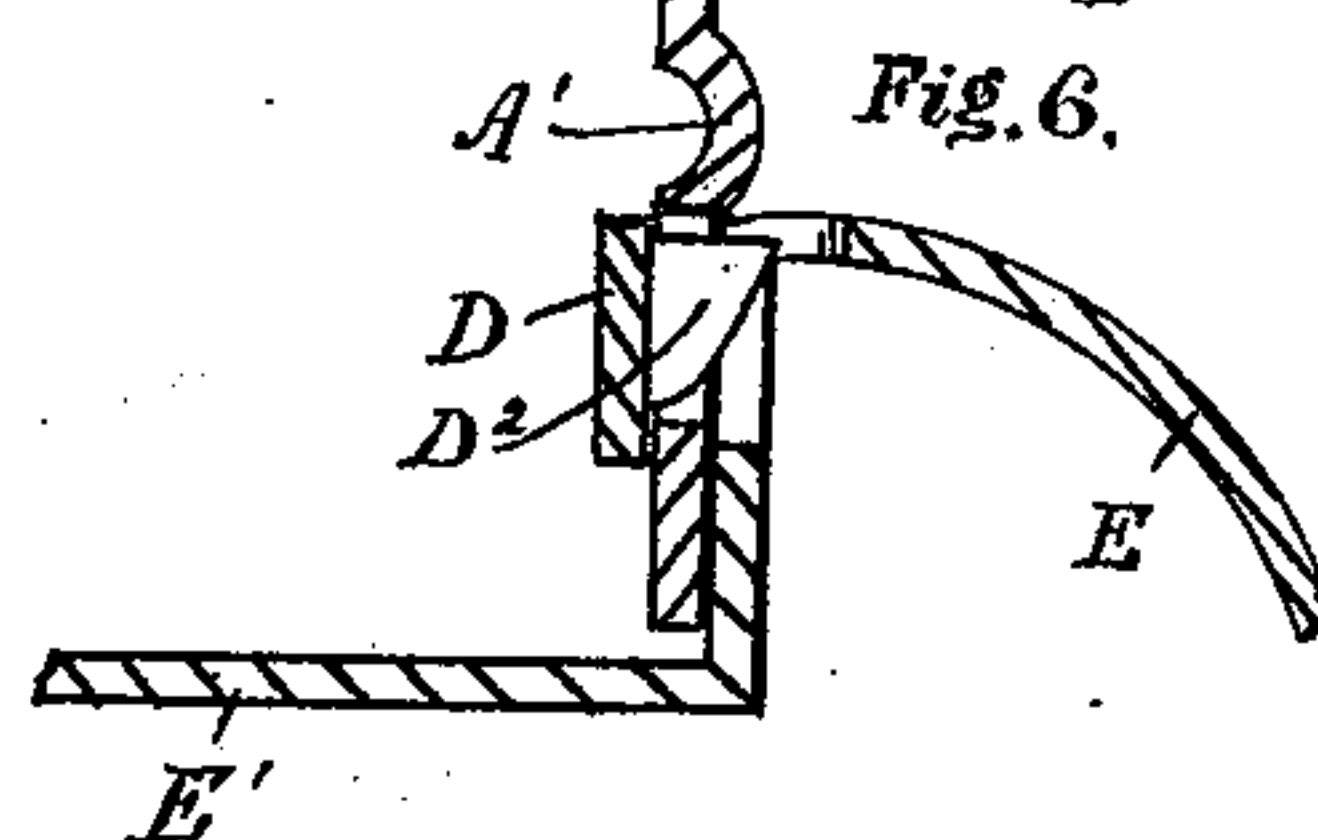
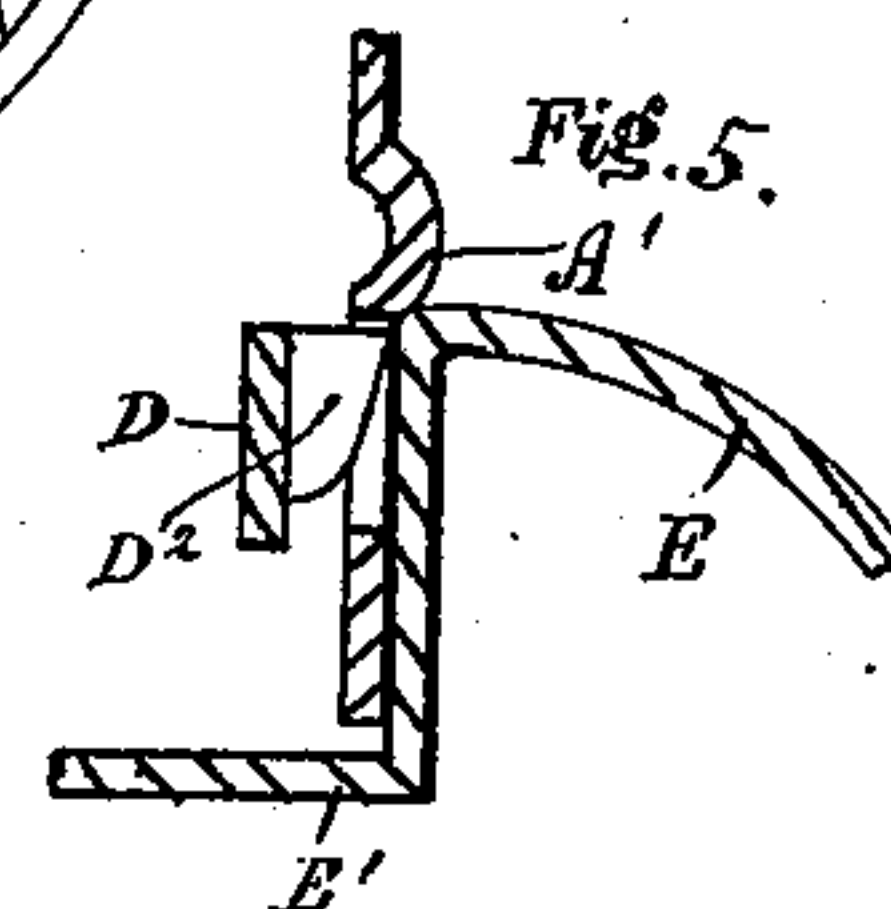
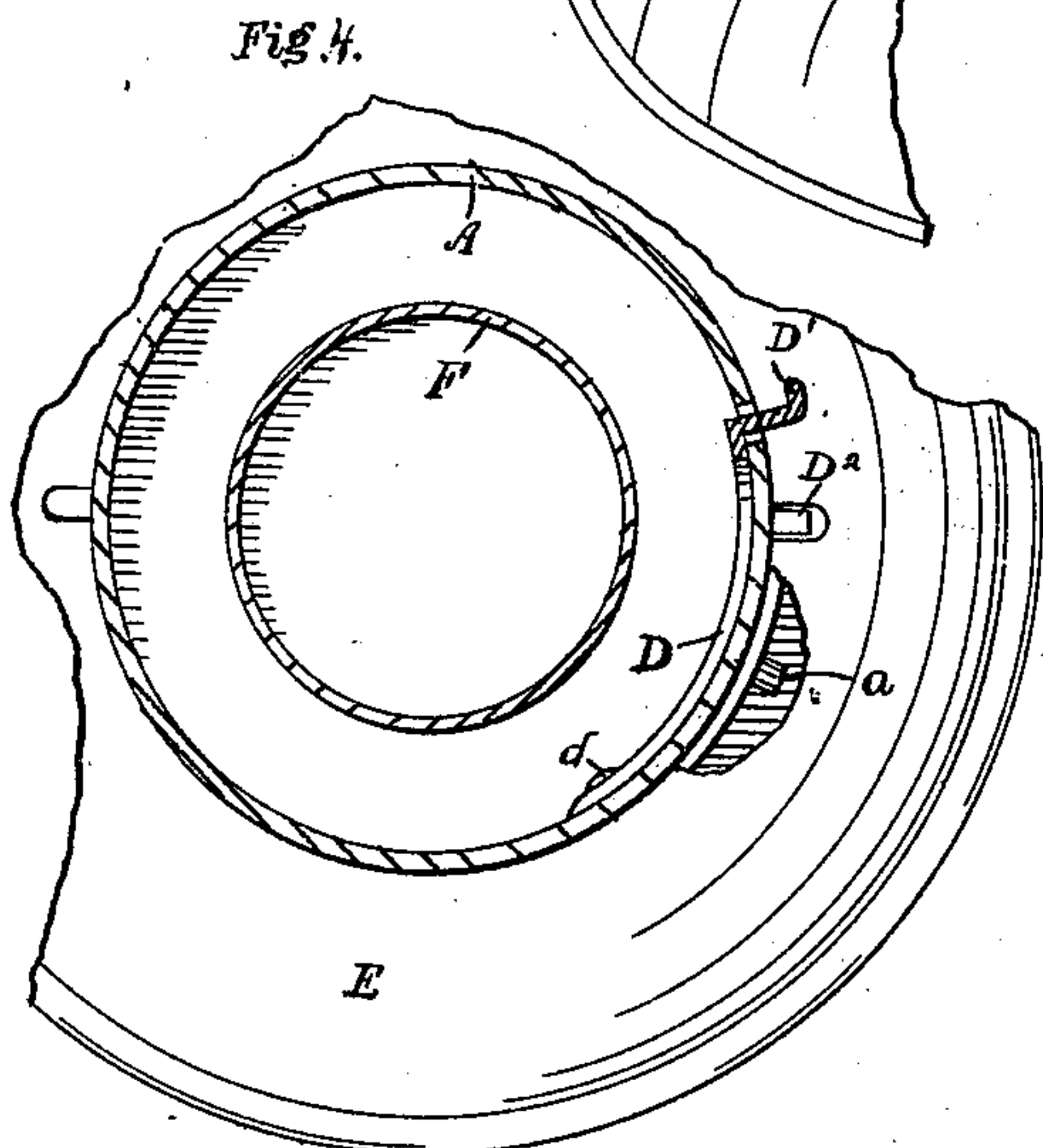
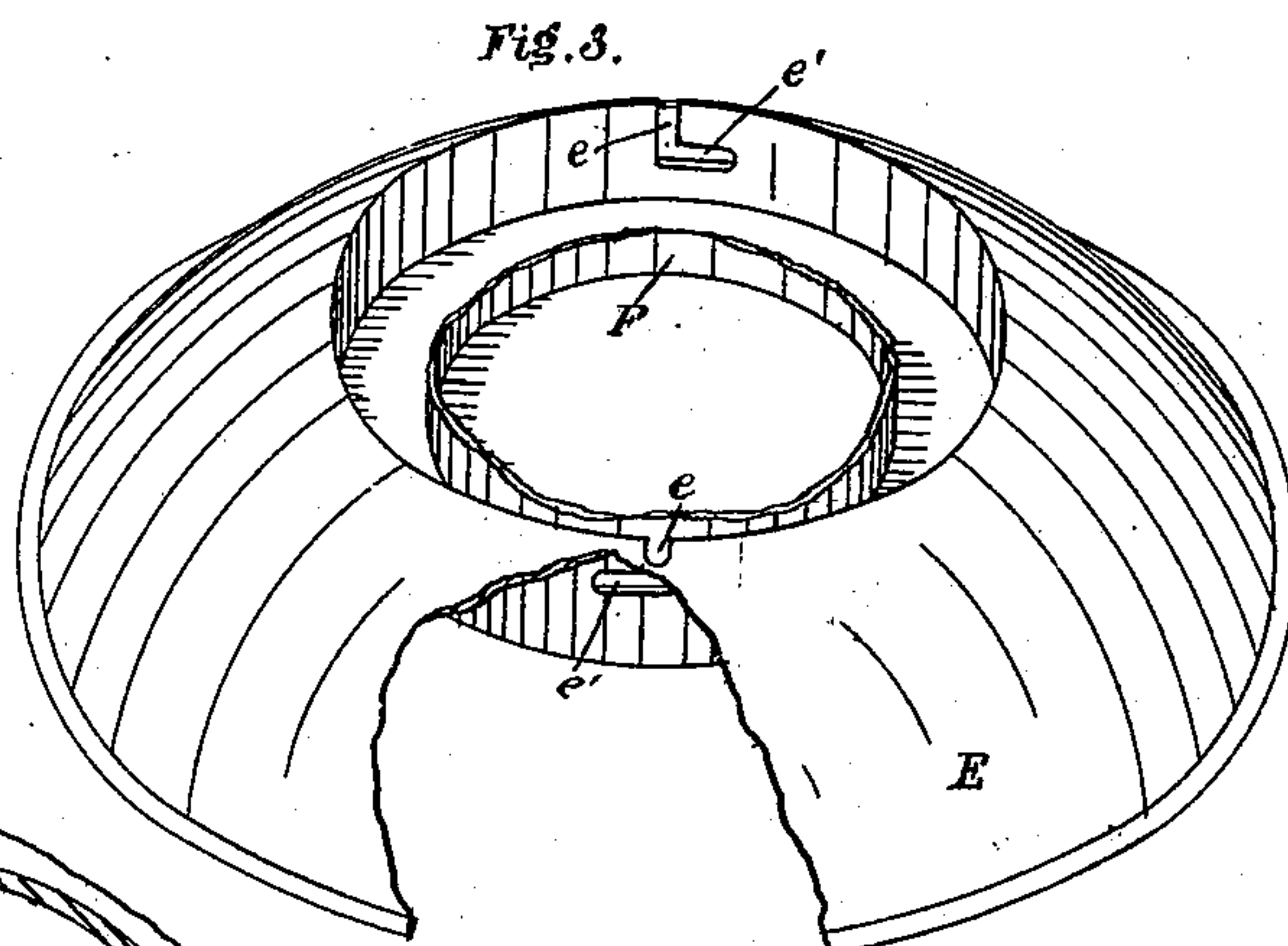
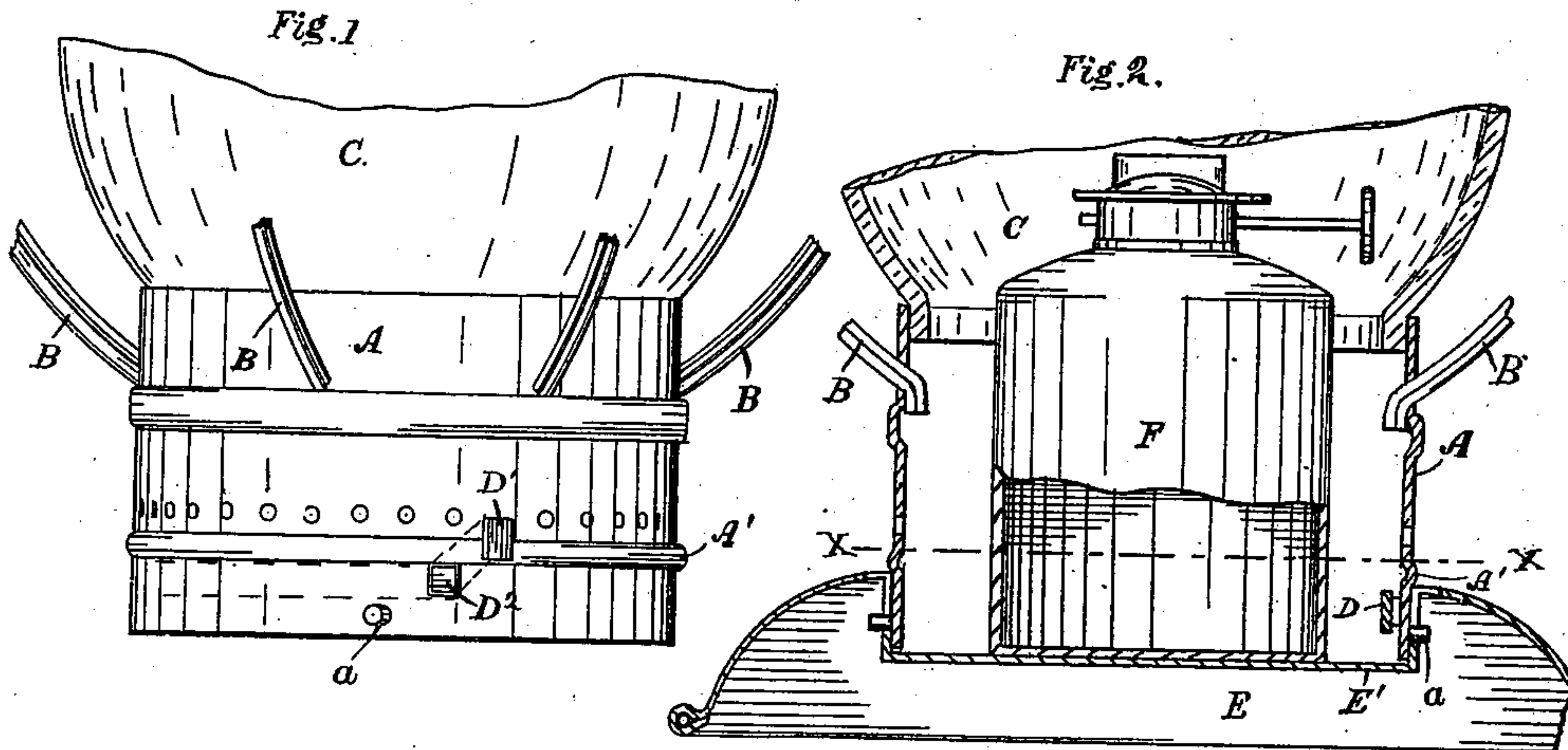


(No Model.)

C. BERGENER.  
LANTERN.

No. 549,099.

Patented Nov. 5, 1895.



Witnesses.  
Thomas Durant  
Wallace Muddach

Inventor  
Charles Bergener  
by Charles H. Church  
his attys



# UNITED STATES PATENT OFFICE.

CHARLES BERGENER, OF ROCHESTER, NEW YORK, ASSIGNOR TO THE  
C. T. HAM MANUFACTURING COMPANY, OF SAME PLACE.

## LANTERN.

SPECIFICATION forming part of Letters Patent No. 549,099, dated November 5, 1895.

Application filed July 8, 1895. Serial No. 555,299. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES BERGENER, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Lanterns; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-letters marked thereon.

My present invention relates to lanterns, particularly of that type in which the oil-pot is attached to the base of the lantern and is removable with the base from the upper globe-carrying frame; and it has for its object to improve the construction of the base portion and also the construction and operation of the devices for fastening these parts together, the novel features being pointed out in the claims at the end of this specification.

In the drawings, Figure 1 is a side elevation of a portion of the bottom of a lantern-frame; Fig. 2, a longitudinal sectional view through the bottom of the lantern-frame, showing the base carrying the oil-pot applied thereto, but not turned so as to cause the locking of the bayonet-joint fastening; Fig. 3, a perspective view, partly in section, of the base of the lantern, showing the fastening devices; Fig. 4, a horizontal sectional view on the line *xx* of Fig. 2; Figs. 5 and 6, sectional detail views showing the operation of the catch at various stages.

Similar reference-letters in the several figures indicate similar parts.

A indicates the bottom ring of the ordinary railroad-lantern frame, B the guards, and C the globe. This ring A is provided, as usual, near its bottom with the bead or shoulder A', and is also provided near its lower end with the locking-pins *a*. Secured upon the inside of the ring A is a spring D, fastened at *d*, having its outer end projecting through the ring formed into an operative button D', and preferably beneath the bead A' on the ring it is provided with an inclined projection D<sup>2</sup>.

E indicates the bottom of the lantern stamped from a single piece of metal and having the depressed central portion E', to which is secured the oil-pot F, preferably by soldering. The vertical walls of the depressed

portion E' are provided on opposite sides with slots *e*, having the portions *e'*, extending laterally in opposite directions, and the slots in the upper or rounded portions of the base E are sufficiently long for the accommodation of the locking-pins *a* on the bottom of the ring A.

The projection D<sup>2</sup> on the spring D and the pins *a* and slots *e e'* are so arranged relatively that the following operations can be accomplished:

When it is desired to attach the bottom to the lantern-frame, the operator simply inserts the oil-pot into the ring A, causing the pins *a* to enter the slots *e*, and at the same time the inclined surface of the projection D<sup>2</sup> on the spring engages the upper edge of the base and is pressed backward, as shown in Fig. 5, the pins *a* passing to the bottom of the slots *e*. The lantern-frame and the base are then rotated relatively to cause the pins *a* to pass into the horizontal portions *e'* of the slots in the base until the projection D<sup>2</sup> enters the vertical slot *e*, when it will spring out and prevent the relative movement of the base and lantern-frame in either direction. To cause the unlocking of the base and the removal of the oil-pot, it is only necessary to press the spring D backward and to move the ring and base in the opposite direction until the pins are in line with the vertical portion of the slot *e*.

By means of the construction shown I provide a more durable base portion carrying the oil-pot, forming it of a single piece of metal stamped and completed at one operation and with no locking devices projecting above the top of the base, and also provide a single spring, which can be cheaply made and will accomplish the locking operation in a simple and efficient manner.

It will be understood that the same locking devices could be employed even if the base were not formed integrally with the depressed cup-shaped portion, as the vertical walls could be replaced by a collar attached to the base otherwise than as shown.

I claim as my invention—

1. In a lantern, the combination with the base ring of the lantern-frame, the projecting pins, the laterally movable spring-catch hav-



ing the beveled face, of the removable lantern bottom having vertical walls provided with the angular slots with which the pins and catch cooperate, substantially as described.

5 2. In a lantern, the combination with the base ring of the lantern-frame, and the projecting pins, of the base formed integrally with the central depressed portion, having the angular slots in the vertical walls of the de-  
10 pressed portion, and the spring-catch having the projection engaging the vertical slots in the base, substantially as described.

3. In a lantern, the combination with the base-ring of the lantern-frame, of the base  
15 composed of a single piece of sheet material formed with the central depressed portion, the oil-pot arranged in said central portion, and locking devices between the base-ring and the

vertical walls of the depressed portion of the base and beneath the upper edge thereof, sub- 20  
stantially as described.

4. In a lantern, the combination with the base ring of the lantern-frame, having the pins, of the base composed of a single piece  
25 of sheet material formed with the central de- pressed portion having the laterally and ver- tically extending slots in the side walls, the latter slots open at their upper ends, the oil-  
30 pot secured in said depressed portion, and the spring catch on the base ring having the bev- eled outer side, substantially as described.

CHARLES BERGENER.

Witnesses:

F. F. CHURCH,  
G. A. RODA.