

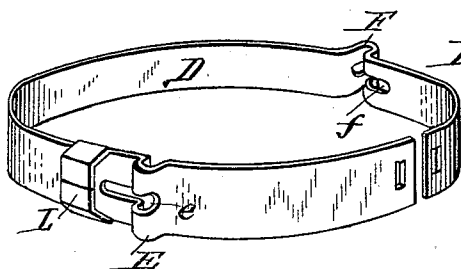
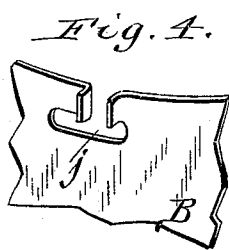
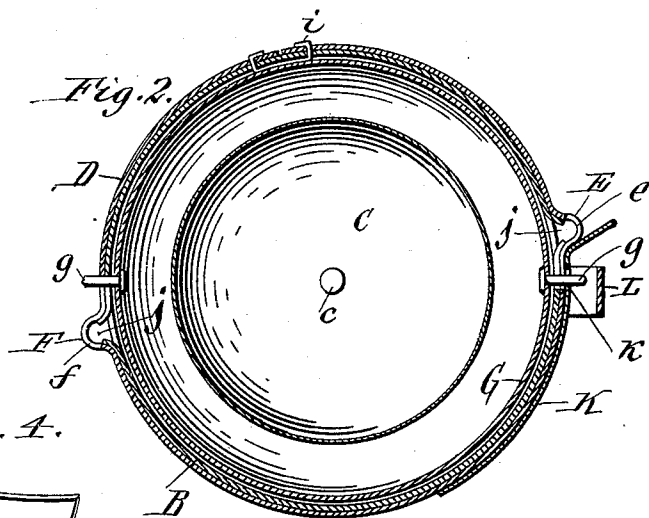
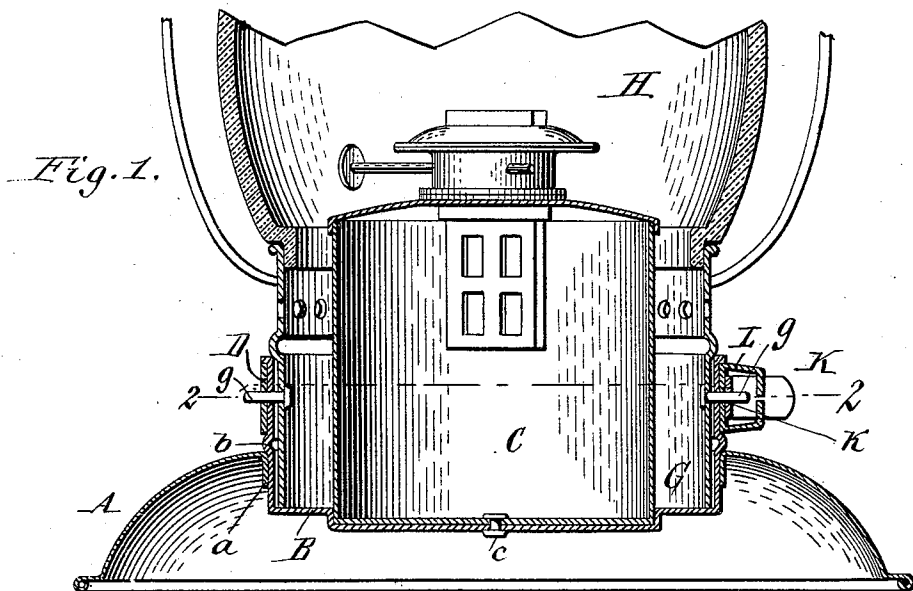
(No Model.)

2 Sheets—Sheet 1.

F. K. WRIGHT.
LANTERN.

No. 538,759.

Patented May 7, 1895.



Witnesses:

Theo. L. Popp.
F. Gustav Wilhelm.

Fred'k K. Wright

Inventor.

By Wilhelm H. Pomeroy.
Attorneys.

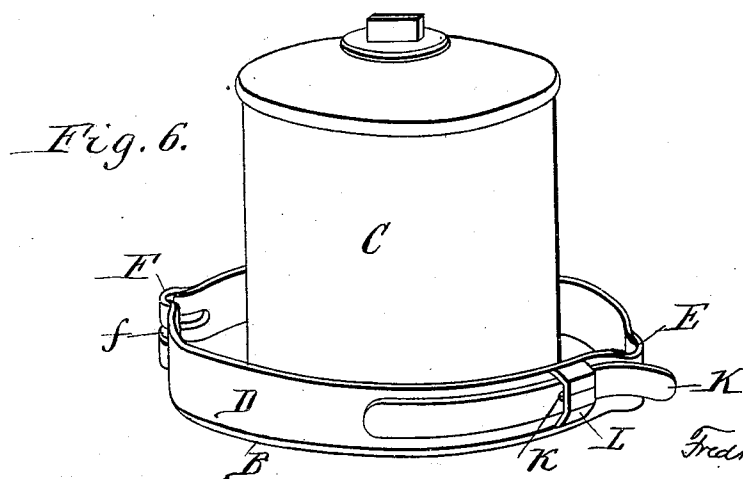
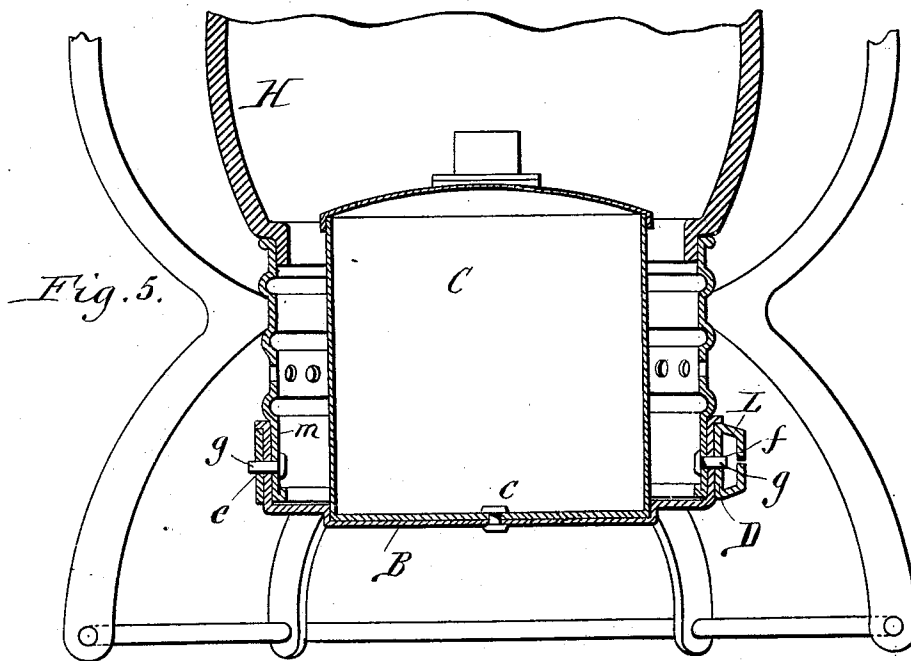
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2 Sheets—Sheet 2.

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Witnesses:
Theo. L. Popp.
J. Gustav Wilhelm.

Fred K. Wright
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Attorneys.

UNITED STATES PATENT OFFICE.

FREDERICK K. WRIGHT, OF SYRACUSE, NEW YORK, ASSIGNOR TO THE
STEAM GAUGE AND LANTERN COMPANY, OF SAME PLACE.

LANTERN.

SPECIFICATION forming part of Letters Patent No. 538,759, dated May 7, 1895.

Application filed August 17, 1894. Serial No. 520,594. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK K. WRIGHT, a citizen of the United States, residing at Syracuse, in the county of Onondaga and State of New York, have invented a new and useful Improvement in Lanterns, of which the following is a specification.

This invention relates to that class of lanterns in which the oil pot is removably attached to the lantern frame so that upon releasing the fastening the oil pot can be separated from the lantern frame.

The object of my invention is to improve the construction of the parts which support the oil pot so as to render the same simpler in construction, stronger and more durable and convenient than heretofore.

In the accompanying drawings, consisting of two sheets, Figure 1 is a sectional elevation of the base portion of a lantern, showing my improvements applied to a lantern in which the base-flange is secured to the detachable oil-pot and removable therewith. Fig. 2 is a horizontal section in line 2 2, Fig. 1. Fig. 3 is a detached view of the band which is secured to the upper portion of the base and which carries the locking-spring. Fig. 4 is a detached view showing one of the undercut notches in the upper edge of the base. Fig. 5 is a sectional elevation of the base portion of the lantern, in which the base flange or ring is formed on the lantern-frame and not removable with the oil-pot. Fig. 6 is a perspective view of the oil-pot and the supporting-cup to which it is secured.

Like letters of reference refer to like parts in the several figures.

In Figs. 1 to 4, A represents the base flange of a lantern having a central opening and in the same a downwardly turned collar *a*.

B is a shallow cup secured in the collar *a* and preferably provided with an external bead *b* by which it rests on the base flange, so that the lower part of the cylindrical side wall of the cup and its bottom are located below the top of the base flange A, while the upper part of the side wall of the cup projects above the base flange.

C is the oil pot which is secured centrally upon the bottom of the cup B, the latter be-

ing preferably provided with a slight depression in which the cup is seated. The oil pot is preferably drawn so as to have its bottom and side wall formed in one piece and the cup is likewise drawn. The oil pot may be secured to the cup by a central rivet *c*, as shown, or it may be secured by soldering, and the cup may also be soldered to the base flange, or the base flange, the cup and the oil pot, properly assembled, as shown, may be dipped in heated tallow to start the flow of the tin, for securing the parts together or the parts may be retinned for that purpose. The cup and the oil pot are easily and cheaply made, they are strong and not liable to leak, and they are securely connected together and to the base flange. The cup does not only support the oil pot but also forms a receptacle for the drippings.

D represents a hoop or band which is secured to the outer side of that portion of the cup B which is located above the bead *b*. This hoop is provided with two outwardly bent portions or clips E and F arranged on diametrically opposite sides of the lantern and provided with horizontal slots *e* and *f*, respectively. These bent portions and their slots are made of the form and size usually employed in the clips of such lanterns to receive the laterally projecting pins or studs *g* which are secured to the lower ring G of the lantern frame in which the globe H is supported. The band or hoop D is secured to the outer side of the top portion of the cup B by soldering or tinning and its ends are connected and secured to the cup by a fastening clip *i*. The upper edge of the cup is formed opposite each of the bent portions E and F of the band with an undercut slot *j*, having its upper edges turned outwardly to bear against the inner sides of the adjacent bent portion of the band. The horizontal portions of these undercut slots coincide with the slots *e* and *f* of the cup, as shown in Fig. 2.

K represents the usual locking spring which is provided near its free end with a hole *k* by which it interlocks with one of the studs *g* of the lantern frame, when the latter has been placed with its studs in the bent portions E and F of the band and has been partially

turned to engage the studs in the horizontal slots. In my improved construction this locking spring is attached to the band D.

L represents the loop which straddles the locking spring near the free end thereof, and limits the outward or releasing movement of the spring. This loop is preferably composed of an upper and a lower part which project respectively from the upper and lower edges of the band D and are formed in one piece therewith, the two parts being bent to straddle the spring and meet outside of the spring about midway of the height of the loop, as represented in Fig. 3. If preferred, however, the loop can be made separate and secured by soldering in the usual manner. The band forms an additional thickness or layer for the upper portion of the cup and is readily bent to form the bent portions or clips E and F, as it is not a continuous ring, while the cup, which is continuous, is merely notched in its upper edge. The hoop or band is permanently attached to the cup and forms a strong and reliable fastening device with the latter and with the locking spring.

In the construction represented in Figs. 5 and 6 in which my improvements are shown as applied to a lantern in which the base ring is not removable with the oil pot, the lower portion of the lantern frame M is provided with the usual upright collar or sleeve *m* to which the oil pot is removably attached. The cup B provided with its fastening devices which have been described, is attached to this sleeve which is provided with the usual studs *g* for the purpose. In this construction the cup can be made lower or shallower than in the construction represented in Figs. 1 to 4, because it is not required to be secured to the base flange.

The cup is made by drawing it out of a blank of tin, whereby its upright or side wall is formed integrally with its bottom. This drawn cup forms a strong support for the band in which the fastening devices are formed and insures a durable and reliable connection of the base with the body of the lantern, particularly when the cup is secured in the base flange. When the cup is drawn it is not possible to form in its upright or side wall the bent portions which form part of the fastening devices and these bent portions are therefore formed in the separate band which is secured to the cup. By drawing the cup absolute uniformity is secured in the cups and fastening devices of lanterns of the same size,

so that the parts of such lanterns can be interchanged without difficulty, which is not the case when the fastening devices have a support built up of pieces secured together by soldering, in which construction variations in the size and location of the parts are unavoidable.

I claim as my invention—

1. The combination with the lantern frame provided with locking studs, of a removable oil pot, a drawn cup in which the oil pot is secured and which has its bottom and upright wall formed integrally, and a separate band secured to said cup and provided with slotted clips and a locking spring, substantially as set forth.

2. The combination with the lantern frame provided with locking studs, of a removable oil pot, a drawn cup in which the oil pot is secured and which has its bottom and upright wall formed integrally, and a separate band secured to said cup and provided with slotted clips and a locking spring and with a loop composed of an upper and lower part formed integrally with said band, substantially as set forth.

3. The combination with the lantern frame provided with locking studs, of a drawn cup having its bottom and upright wall formed integrally and having undercut notches in its upper edge, a separate band secured to the cup and provided with outwardly bent portions or clips having slots coinciding with the notches of the cup, a locking spring secured to said band, and an oil pot secured in said cup, substantially as set forth.

4. The combination with the base flange provided with a central opening and having a downwardly turned collar surrounding said opening, of a cup secured in said collar and provided with an external bead resting upon said base flange, and an oil pot secured in said cup, substantially as set forth.

5. The combination with the base flange having a central opening, of a drawn cup having its bottom and upright wall formed integrally, said cup being secured with its upright wall in said base flange and projecting above the same, a band provided with slotted clips secured to the cup above the base flange, and a locking spring, substantially as set forth.

Witness my hand this 9th day of August, 1894.

FREDERICK K. WRIGHT.

Witnesses:

EDWARD C. SAWYER,
GEO. A. ALLEN.