F. N. THIEL.

LANTERN.

APPLICATION FILED JUNE 3, 1912.

1,067,495. Patented July 15, 1913.

Fig. 1.

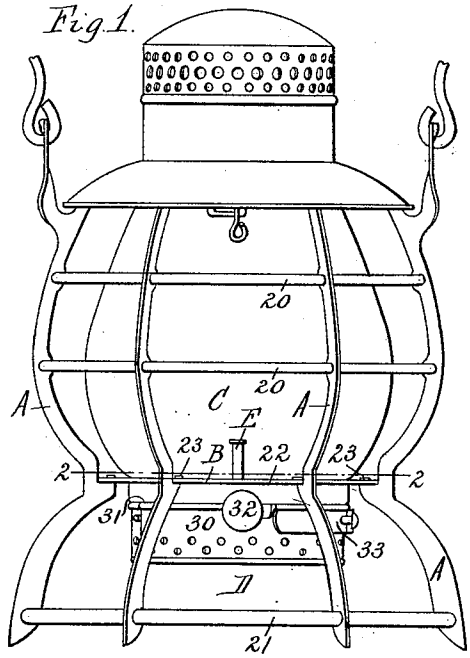


Fig. 2.

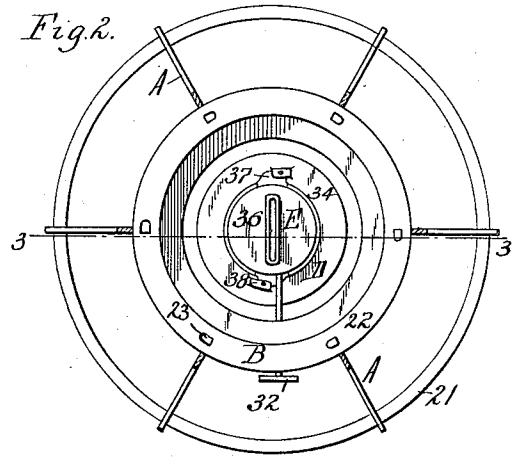


Fig. 9.

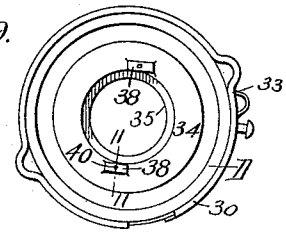


Fig. 10.

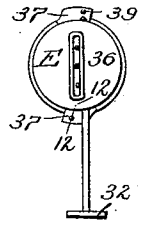


Fig. 11.

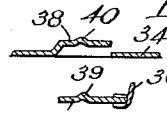


Fig. 12.

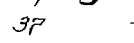


Fig. 4.

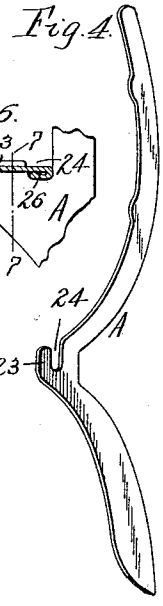


Fig. 5.

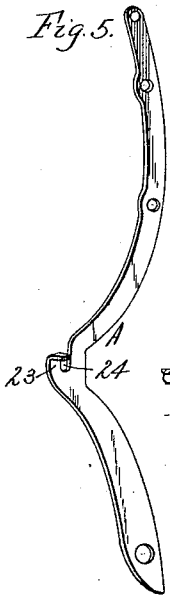


Fig. 6.

Fig. 7.

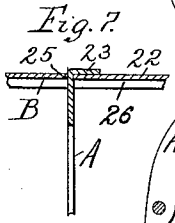
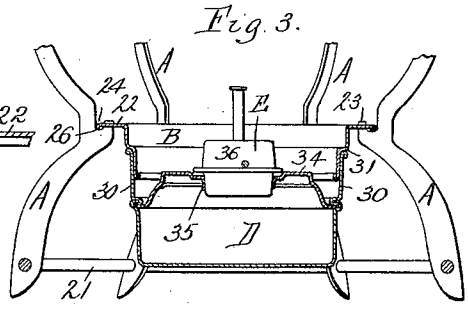


Fig. 3.

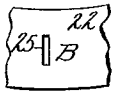


Witnesses:-

A. Borkenhagen.

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Fig. 8.



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UNITED STATES PATENT OFFICE.

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LANTERN.

1,067,495. Specification of Letters Patent. Patented July 15, 1913.

Application filed June 3, 1912. Serial No. 701,158.

To all whom it may concern:

Be it known that I, FRANK N. THIEL, 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 of the railroad type in which the upright members of the lantern frame or guard, usually flat steel bars, are secured to the globe ring or body hoop at or near the upper end of the latter.

The object of the invention is to provide a simple, strong and inexpensive connection of the upright frame or guard members with the body hoop.

In the accompanying drawings: Figure 1 is an elevation of a lantern provided with these improvements. Fig. 2 is a horizontal section on line 2—2, Fig. 1. Fig. 3 is a vertical section on line 3—3, Fig. 2. Fig. 4 is a detached perspective view of a blank for one of the upright bars of the lantern frame. Fig. 5 is a detached perspective view of one of those upright frame bars. Fig. 6 is a fragmentary vertical section of the body hoop and adjacent portion of one of the upright frame bars, on an enlarged scale. Fig. 7 is a vertical section on line 7—7, Fig. 6. Fig. 8 is a fragmentary top view of the body hoop. Fig. 9 is a top view of the oil pot and its attaching collar with the burner removed. Fig. 10 is a top view of the burner. Fig. 11 is a vertical section through the locking lip on the oil pot on line 11—11, Fig. 9, on an enlarged scale. Fig. 12 is a vertical section through the attaching ear on the burner on line 12—12, Fig. 10, on an enlarged scale.

Like reference characters refer to like parts in the several figures.

A represents the upright members or bars of the lantern frame or guard, preferably stamped from steel plates and connected in the usual way by horizontal guard rings 20 and a base 21.

B represents the body hoop or globe ring arranged within the contracted waist portion of the frame and supporting the globe C in the usual way.

D represents the oil pot which is inserted into the body hoop from below, and E represents the burner.

The body hoop B is provided with an outwardly extending substantially horizontal top flange 22 to which the upright frame members A are connected. For that purpose each frame member is provided at the inner side of its contracted portion with an upwardly projecting fastening tongue 23 which is separated from the body of the frame member by a recess 24. The flange 22 of the body hoop is provided for each upright frame member with a radial slot 25 through which the tongue 23 is inserted from below until the marginal rim or bead 26 of the flange 22 rests in the recess and is supported thereby, when the upper projecting portion of the tongue is bent down or clenched upon the flange 22, as shown most clearly in Figs. 5, 6 and 7, whereby the frame bar and the body hoop are securely fastened together. The weight of the parts which are supported by the body hoop, such as the oil pot and the globe, is received directly by the frame bars by reason of the body hoop resting in the recessed seats 24 of the frame bars, and the bent-over or clenched portions of the attaching tongues are relieved from this weight and the strains resulting therefrom, thereby forming a strong, rigid and durable connection of the body hoop with the frame bars.

The oil pot D is provided with an upwardly extending perforated attaching collar 30 which bears with its upper end against an annular shoulder 31 formed on the body hoop at such a distance below the flange 22 of the hoop that the wick-raiser button 32 of the burner E stands below the flange 22 so that this button does not come in contact with the flange or interfere with the same, leaving the button free to be manipulated conveniently for raising and lowering the wick. The oil pot is releasably secured to the body hoop by a spring attaching device 33 of any well known or suitable construction.

The oil pot is provided with a raised top 34 in which the burner E is seated in an opening surrounded by a depending socket 35. The body 36 of the burner which contains the wick-raiser wheels is provided on diametrically opposite sides with laterally projecting attaching ears 37 which are engaged underneath holding lips 38 which are formed on the top plate 34 of the oil pot and raised above the same sufficiently to permit the burner ears 37 to be engaged

underneath the lips by a turning movement of the burner in its socket. Each burner ear is preferably provided for additional security with a slight projection or knob 39 which enters a depression 40 in the underside of the lip, Figs. 11 and 12.

The lower edge of the perforated attaching collar 30 of the oil pot is secured to the pot at the outer edge of the raised top 34, as represented in Fig. 3.

I claim as my invention:

1. In a lantern frame, the combination with a body hoop having an outwardly projecting flange, of an upright frame bar having a recessed seat in which the marginal portion of said flange is supported and on the inner side of said seat an upwardly projecting attaching tongue which penetrates said flange and is closed upon the same, substantially as set forth.

2. In a lantern frame, the combination of upright frame bars having upwardly opening recesses and on the inner side of said recesses upwardly projecting attaching tongues, of a body hoop having an external flange which is seated in the recesses of said frame bars and provided with openings through which said tongues extend upwardly, said tongues being closed upon said flange, substantially as set forth.

Witness my hand in the presence of two subscribing witnesses.

FRANK N. THIEL.

Witnesses:

P. L. SALMON,

FRANK C. CROWELL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."