(No Model.) 2 Sheets—Sheet 1.

J. W. ORPHY.

LANTERN.

No. 456,962. Patented Aug. 4, 1891.

Fig. 1

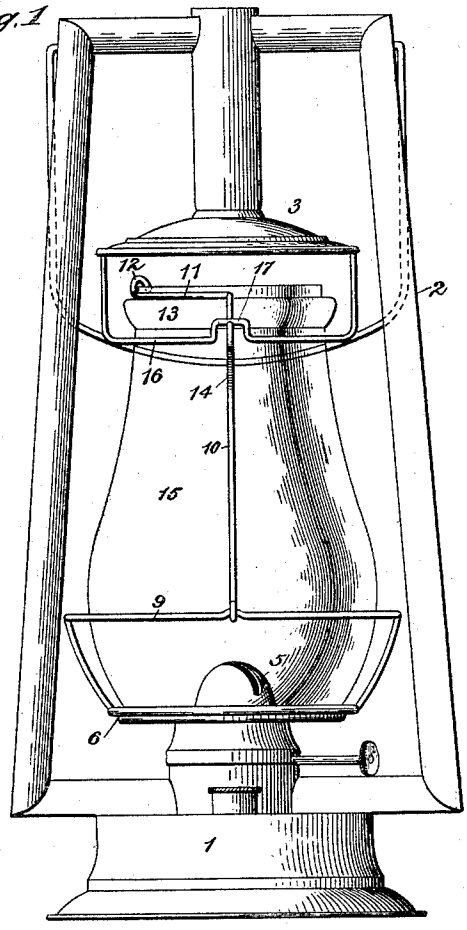


Fig. 2.

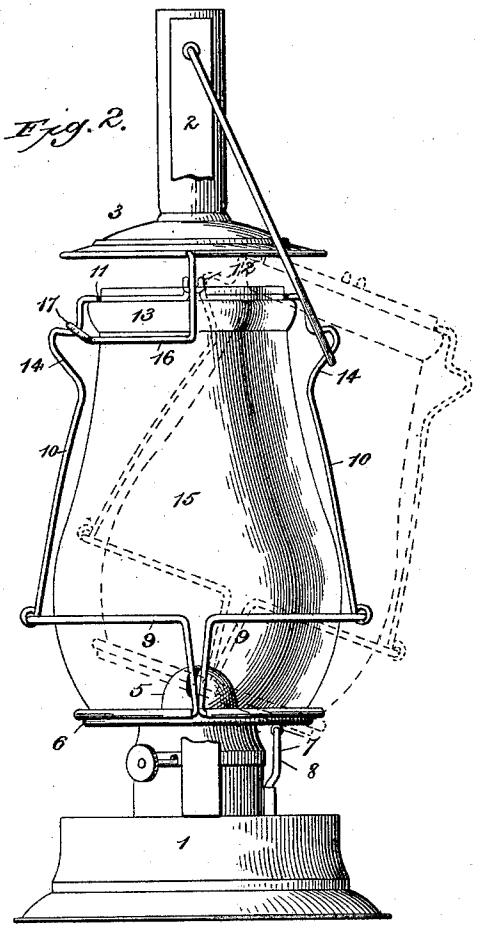
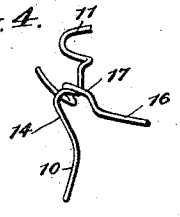


Fig. 4.



Witnesses
E. D. Smith
Thomas Durant.

Inventor
John W. Orphy.
By Church & Church
his Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

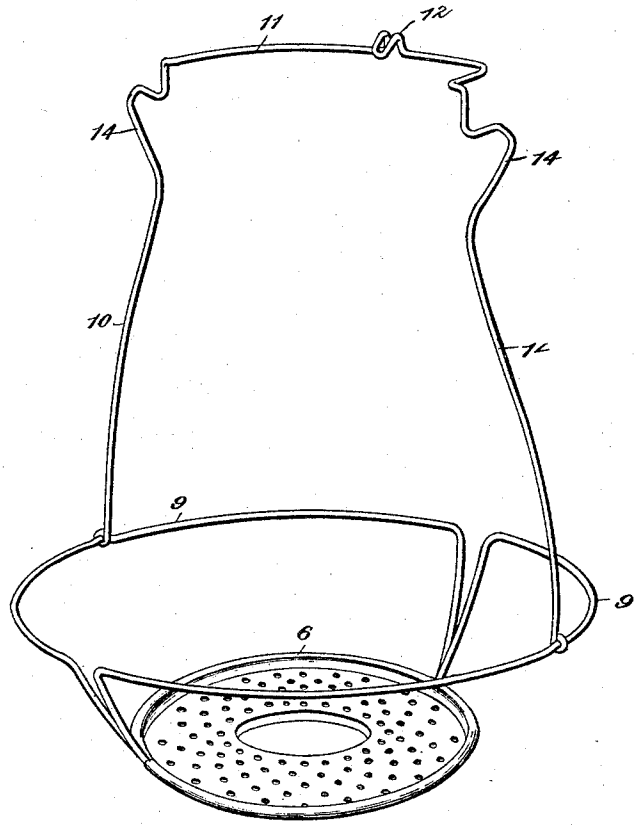
(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.



Witnesses
E. D. Smith
Thomas Durant.

Inventor
John W. Orphy,
By Church & Church
his Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN W. ORPHY, OF ROCHESTER, NEW YORK, ASSIGNOR TO THE C. T. HAM MANUFACTURING COMPANY, OF SAME PLACE.

LANTERN.

SPECIFICATION forming part of Letters Patent No. 456,962, dated August 4, 1891.

Application filed March 4, 1891. Serial No. 383,751. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. ORPHY, 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 figures of reference marked thereon.

My present invention has for its objects to improve the construction and operation more particularly of the globe-holding devices of lanterns, whereby the globe will be held and protected and access permitted to the burner, and while especially adapted for use in tubular lanterns the improvements could as well be applied to other kinds; and to this end consist in certain novelties of construction and combinations of parts, all as will be hereinafter fully described, and the novel features pointed out particularly in the claims at the end of this specification.

In the drawings, Figure 1 is a front view of a lantern provided with my invention; Fig. 2, a side view, with one of the tubes broken away and the globe shown tilted in dotted lines; Fig. 3, a perspective view of the globe-retaining frame detached, and Fig. 4 a view of a detail.

Similar figures of reference in the several figures denote similar parts.

The base or oil-pot 1, side tubes 2, and central tube and bell 3 are of the usual or any preferred construction, and constitute what I shall hereinafter term the "frame" of the lantern, and the burner-cone 5 is also of the usual construction, and therefore these parts need no further description.

6 indicates the globe-supporting plate, perforated as usual, and provided on the under side with a loop 7 adapted to be engaged by a wire staple or loop 8 formed of wire and rigidly secured to the oil-pot or base. Upon the upper edges of the plate 6 are fastened two spring-guard wires 9 9, having the upwardly-projecting portions at the sides and then are extended around the globe 15. Connected to the central portions of said guards are the upwardly-extending wires 10, connected at the top by a semicircular loop formed with the centrally-arranged hook 12, adapted to catch over the upper edge of the globe while the end of the loop rests upon the top of the bead 13 on the globe, as shown. This guard and globe-holder holds the globe firmly to the plate 6 by reason of the spring-guards and loop 11, and therefore globes differing slightly can be employed and readily be inserted in the globe-frame from the open side of loop 11, the latter being sprung upward to engage and disengage the hook 12, as will be understood. In order that the lifting of the loop 11 may be more readily accomplished and also to provide a co-operating portion for a securing-catch for the globe-holder, I form the loops 14 on wires 10 near their upper portions, as shown.

The plate 6, guards, and retaining devices constitute the globe-holding frame, which may be tilted, as in dotted lines, Fig. 2, to permit access to the burner when desired.

In order to secure the globe and its holding-frame in vertical position, I provide upon the lower side of the bell 3 a semicircular wire rest 16, formed of a single piece of springy wire adapted to abut against the globe below the bead and form a loop 17 on its rear side, with which the loop 14 on the globe-holding frame co-operates, constituting a spring-catch that holds the parts from accidental movement, though the globe and its holding-frame can be readily moved on the hinge into and out of the lantern-frame and secured by the catch without the necessity of the operators taking one hand to engage or disengage the catch.

Having thus described my invention, what I claim as new is—

1. The combination, with the lantern-frame, of the globe-support, the semicircular spring-guards secured thereto, the vertical wires attached to the guards connected at the top independent of the lantern-frame and engaging the top of the globe, substantially as described.

2. The combination, with the lantern-frame, of the globe-support having the spring-guards, the vertical wires secured to the guards and connected at the top by the semicircular loop having the hook, substantially as described.

3. The combination, with the lantern-frame, of the globe-support having a guard and the connected vertical wires, one of the latter having the projection near the upper portion and the elastic depending rest engaging the upper end of the globe co-operating with the projection on the vertical wire, substantially as described.

4. The combination, with the lantern-frame, of the globe-support hinged to the base, the guard, the vertical wires connected by the semicircular loop provided with the hook, said wires having the loops near the upper portions for disengaging the hook from the globe, substantially as described.

5. The combination, with the tubular lantern-frame having the bell, of the hinged globe-support having the guard, the vertical wires secured rigidly thereto co-operating with the top of the globe and constituting a globe-frame independent of the bell, the depending vertically-elastic globe-rest forming an abutment for the globe near its upper portion and co-operating with the globe-frame to secure the latter in vertical position, substantially as described.

6. The combination of the lantern-frame, the globe-support, the semicircular spring-guards secured thereto, the vertical wires attached to the guards and connected at the top by the semicircular loop engaging the top of the globe, substantially as described.

7. The combination, with the lantern-frame, of a globe-frame mounted thereon embodying a globe-plate, guard, and vertical wire connected to the top of the globe, and the semicircular spring-wire depending from the lantern-frame constituting a spring-catch engaging the globe-frame and retaining it in position, substantially as described.

8. The combination, with the lantern-frame having the bell, of the globe-frame mounted thereon embodying a globe-plate, guard, and a vertical wire having a projection thereon, the spring-wire secured to the bell at its ends extending around the end of the globe and engaging the projection on the vertical wire constituting a catch for the globe, substantially as described.

JOHN W. ORPHY.

Witnesses:
JAS. BARNES,
ARTHUR T. LUDLAM.