

J. S. & T. B. ATTERBURY.

Lantern.

No. 47,267.

Patented April 18, 1865.

Fig. 1.

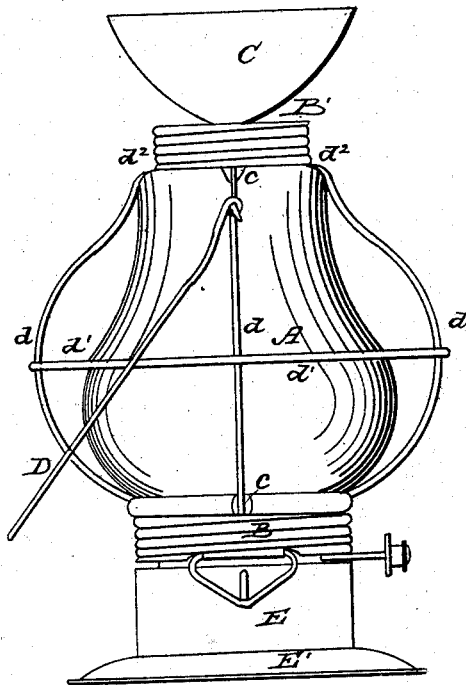


Fig. 2.

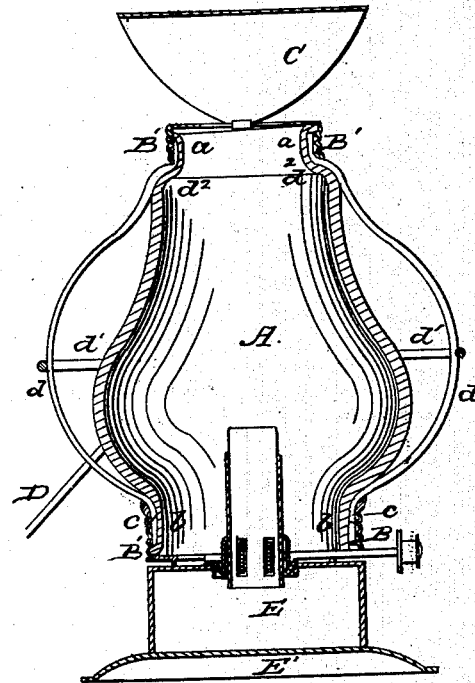


Fig. 3.

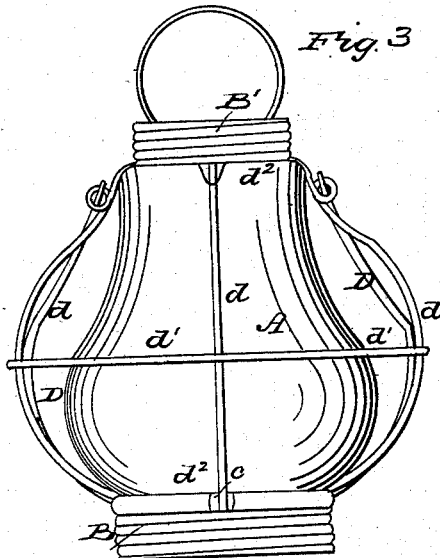
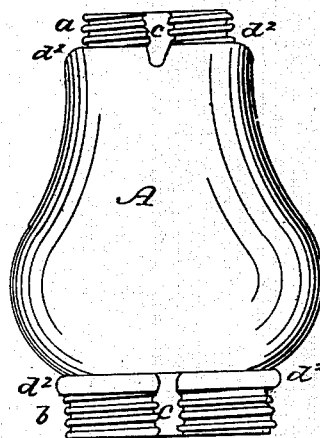


Fig. 4.



Witnesses  
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# UNITED STATES PATENT OFFICE.

J. S. ATTERBURY AND T. B. ATTERBURY, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN LANTERNS.

Specification forming part of Letters Patent No. 47,267, dated April 18, 1865.

*To all whom it may concern:*

Be it known that we, J. S. ATTERBURY and T. B. ATTERBURY, of Pittsburg, Allegheny county, State of Pennsylvania, have invented a new and useful Improvement in Lanterns; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation of our improved lantern. Fig. 2 is a diametrical section through the same. Fig. 3 is a side view of the lantern-globe with guard applied to it and lamp-base removed. Fig. 4 shows the mode of constructing the globe of a lantern to receive the wire guard.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to lanterns which are constructed with wire guards surrounding the glass globes for the purpose of protecting the latter from being broken.

The main object of our invention is to adapt a lantern glass or globe to serve, in conjunction with the mountings of the lantern, as a means for securing the wire guard frame firmly in place, and to admit of such frame being detached from the lantern at pleasure for cleaning or repairing it, as will be hereinafter described.

Another object of our invention is to provide for securing the mountings and guard-frames to lantern-globes by so constructing the latter that the use of solder and cement and all the objections incident thereto are obviated, as will be hereinafter shown.

To enable others skilled in the art to make and use our invention, we will describe its construction and operation.

The lantern glass or globe A is constructed with contracted cylindrical necks *a* and *b*, with male screw-threads formed on them, which threads are interrupted at suitable points by recesses *c c c*, corresponding in number to the number of vertical wires *d d*, which it is desired to employ in forming the guard-frame which surrounds and protects the lantern-globe. For large lanterns the number of recesses *c* may be increased; but for lanterns of ordinary size four of such notches or recesses arranged diametrically opposite each

other will be found to answer. These screw-threaded necks *a b* may terminate at shoulders *d<sup>2</sup> d<sup>2</sup>*, formed by ribs or by the swell of the globe. *B B'* represent metallic collars or "mountings," which are constructed with continuous female screw-threads adapted to receive the male threads on the necks of the globe A. These collars may have attached to them the contrivances which complete the lantern, such, for instance, as the hood C, bail D, and lamp E, with its base E'. In the present case the bail is connected by means of eye-fastenings to the guard-wires *d d*, and the lamp and base are attached by a hinge and looped fastening to the base of the screw ring or collar B, as shown in Fig. 1 and 2.

The wire guard-frame is made up of vertical wires *d d* bent in a suitable manner, and secured at an intermediate point between their ends to a hoop-guard, *d'*, which latter assists in keeping the vertical wires in their proper position when applied to the lantern-globe. The ends of the vertical wires *d d* are bent so that they will enter and lie flat in the recesses *c c* in the necks of the lantern-globe, and when the guard-frame is applied to the globe in this manner the collars or rings *B B'* are screwed over the necks of this globe, and thus confine each end of all the vertical wires within their respective recesses and secure the guard-frame to the globe. If the wires *d d* should be too long, they can be bent until they are thus adapted to a globe; or, if they are too short, by giving them less bow their ends may be received and secured in place by means of the screw-caps, as above described.

By thus constructing the lantern-globes and applying the guard-frame to it it will be seen that the latter can be detached at any time by simply unscrewing the collars *B B'*, no cement being used for securing said collars or mountings to the globe nor solder for securing the guard-frame to the mountings, and hence we not only have the advantage of easily putting together the several parts of the lantern, but by our invention we can readily take them apart for cleaning the lantern-glass or inserting a new one in its stead.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. Securing in place the guard-frame of a

lantern in the act of securing the metallic mountings or collars to the globe of the lantern, substantially as described.

2. The combination of screw collars, rings, or mountings B B' with a wire guard-frame and a globe adapted to receive the same, substantially as described.

3. A lantern-globe constructed substantially as described.

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