

H. BEEBE.
LANTERN.

No. 170,510.

Patented Nov. 30, 1875.

Fig. 1.

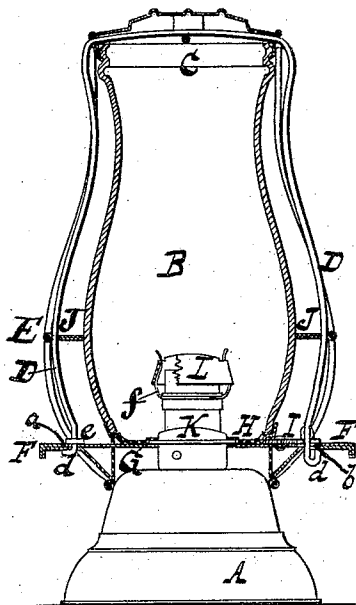
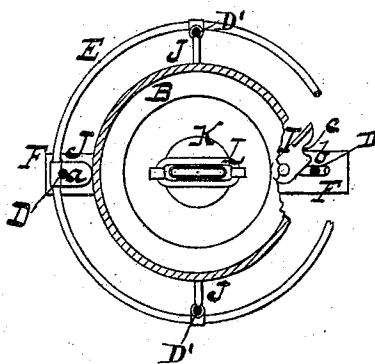


Fig. 2.



Witnesses

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Inventor.

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per
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UNITED STATES PATENT OFFICE

HENRY BEEBE, OF JERSEY CITY HEIGHTS, NEW JERSEY.

IMPROVEMENT IN LANTERNS.

Specification forming part of Letters Patent No. **170,510**, dated November 30, 1875; application filed November 4, 1875.

To all whom it may concern:

Be it known that I, HENRY BEEBE, of Jersey City Heights, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Lanterns, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a vertical central section of my improvement. Fig. 2 is a horizontal section thereof in the plane *x x*, Fig. 1.

Similar letters indicate corresponding parts.

My invention relates to certain improvements in lanterns; and consists in a novel method of connecting the base and the globe of the lantern to each other through the agency of the guard, the base being provided with lateral arms, which are, respectively, pierced and slotted, while the vertical branches of the guard are allowed to remain free, and are bent at the lower ends, in such a manner that if the end of one of the branches is inserted in the hole of the pierced arm, and the end of the other branch is sprung into the slot of the slotted arm, the guard, together with the globe of the lantern, is firmly connected to the base. The arm into whose slot one of the vertical branches is sprung carries a latch, by which such branch may be locked in place, and thus the firm connection of the guard and globe with the base is insured. It consists, also, in the arrangement of a series of inwardly-projecting braces on the lantern-guard, for the purpose of steadying the globe.

In the drawing, the letter A designates the base of my lantern, and B is its globe, which is surmounted by a cap, C, and fastened to such cap in any known manner. D E are the parts constituting a guard for the globe, D designating the vertical branches of the guard, and E the horizontal branch thereof, which are fastened together in the usual manner. The vertical branches D of the guard, in this example, are made of a single piece of wire, which is passed through the cap C; hence the guard, the cap C, and the globe B are all firmly united. The upper part of the base A has arms F F projecting laterally from it, which are made of sheet metal, and in this example of a double layer thereof, so that the arms are rendered exceedingly stiff. The arms F F

are held in place by being passed through the ventilating-ring G, and fastened to the ventilating-plate H of the base by means of solder or other suitable means, and, if a double layer of sheet metal is used, by bending the lower layer thereof, and soldering or otherwise fastening it to the base, as clearly shown in Fig. 1. The arms F F are situated diametrically opposite to each other, and extend laterally from the base A in the direction of its radii. One of the arms is pierced with a hole, *a*, while the other is provided with a slot, *b*, which latter has an elongated shape. On the upper surface of the slotted arm is pivoted a latch, I, which is provided with a recess, *c*, Fig. 2, of a shape corresponding to that of the wire composing the guard of the lantern in cross-section. The vertical branches D of the guard are allowed to remain disconnected at the lower end, while they are bent outwardly, as shown at *d d*, and one of the branches is provided with a collar, *e*, near the end.

When it is desired to connect the lantern-globe and the base A to each other, I insert the free end of that branch D having the collar *e* in the hole of the pierced arm F, this purpose being effected by holding the globe in an inclined or a horizontal position. The collar *e* then rests on the arm F and limits the downward movement of the wire. When one of the branches D has thus been connected to the base I spring the opposite branch in the slot of the slotted arm F, or, in other words, I compress the said branch inward sufficiently to permit of passing its end through the slot *b*, which having been accomplished I allow the branch to become wedged in the outer end of the slot by its inherent elasticity. The bent ends *d d* of the branches D D prevent a return movement thereof when they have been adjusted in the arms F F, and consequently the globe of the lantern is firmly connected to the base by means of the guard. In order to insure this connection I use the latch I, whose recess receives in it the approximate branch D when the latch is swung round to the proper position. This latch I serves to prevent an accidental displacement of the branch which it confines—as, for instance, when the lantern is let fall or comes in contact with anything.

In the present example of my invention two vertical branches are used for the purpose of connecting the globe to the base, while the lantern-guard has four such branches, D D D' D'. The branches D' D' are bent inwardly at the point of the horizontal branch E of the guard, and they are made of such length that the bent part abuts against the globe B. The clasps which are used for uniting the branches D D with the horizontal wire E also are made to project inwardly similar to the branches D' D'; and by this means I form braces J, which are adapted to steady or preserve the equilibrium of the globe B in case the latter becomes loosened. It is obvious that these braces J may be constructed in various ways, and I do not wish to limit myself to the one here shown.

The base A has attached to it a burner, K, which is provided with a deflector, L. This deflector is similar in shape to the wick-tube of the burner K, and it extends entirely around the wick-tube, as shown. By the deflector the flame of the burner is spread, and

is caused to burn with great uniformity. I prefer to connect the deflector L to the burner by a spring, f, so that it is detachable.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the base A, its pierced and slotted arms F F, the vertical branches D D of the lantern-guard, and the globe B, substantially as described.

2. In combination with the base A, its pierced and slotted arms F F, the vertical branches D D of the lantern-guard, and the globe B, the latch I, substantially as described.

3. The braces J, in combination with the lantern-guard D D D' D' E E, and with the globe B, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 1st day of November, 1875.

HENRY BEEBE. [L. S.]

Witnesses:

J. VAN SANTVOORD,
E. F. KASTENHUBER.