

(No Model.)

F. A. SMITH.
REFLECTOR LANTERN.

No. 508,776.

Patented Nov. 14, 1893.

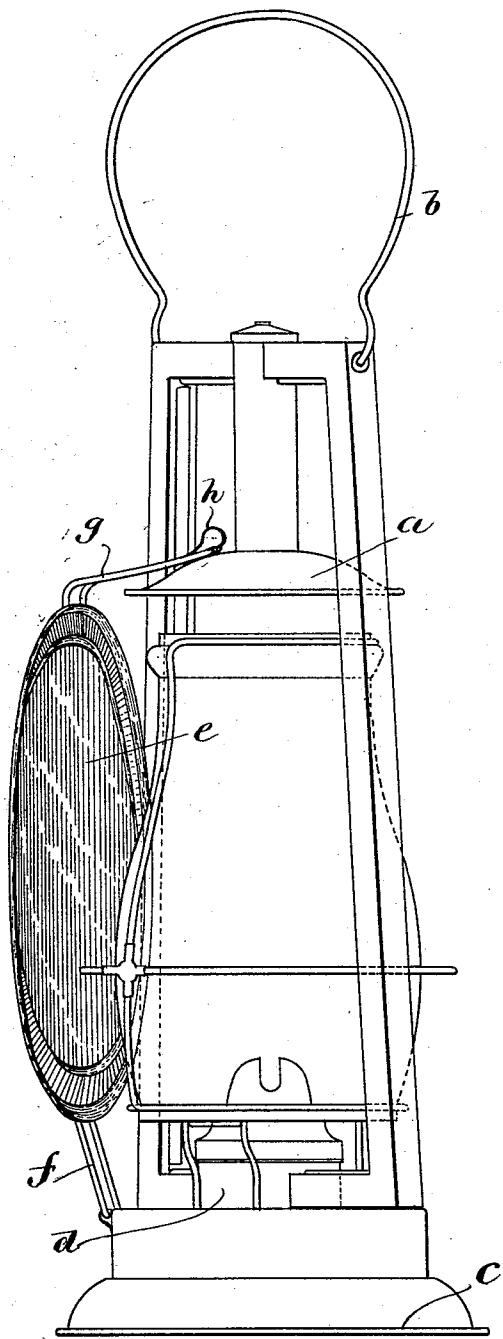


FIG. 1.

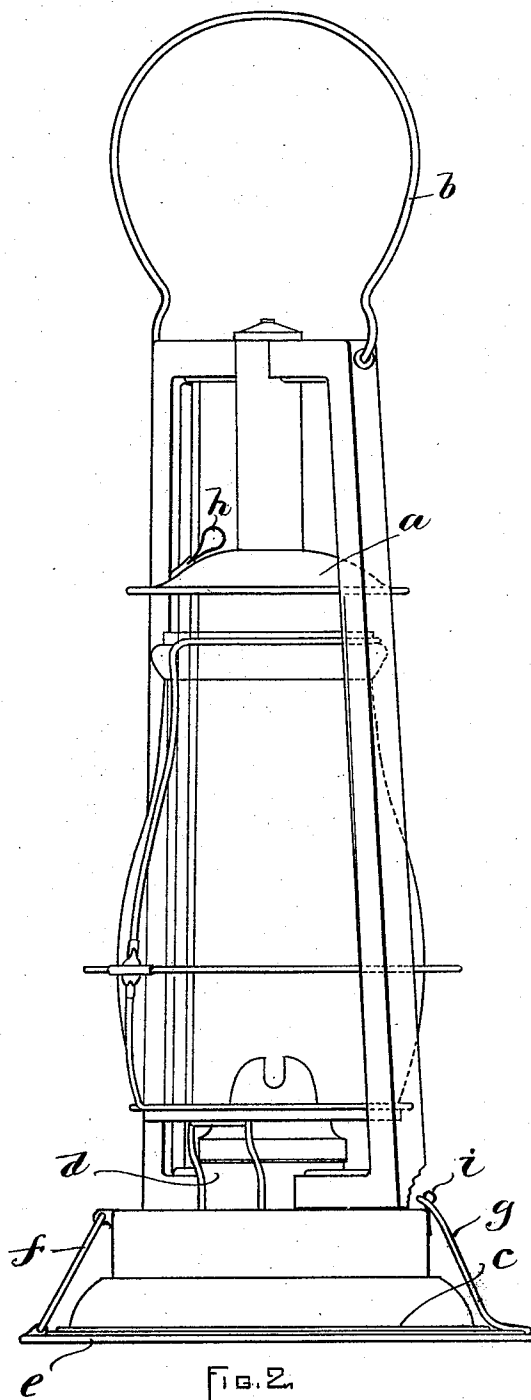


FIG. 2.

WITNESSES:
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UNITED STATES PATENT OFFICE.

FREDERICK A. SMITH, OF WOLLASTON, MASSACHUSETTS.

REFLECTOR-LANTERN.

SPECIFICATION forming part of Letters Patent No. 508,776, dated November 14, 1893.

Application filed October 29, 1892. Serial No. 450,343. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK A. SMITH, of Wollaston, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Reflector-Lanterns, of which the following is a specification.

My invention has relation to that class of lanterns which are adapted to be carried in the hand to light the steps of the user and others, and which it may be necessary to set down in various places to light the surrounding vicinity.

It is the object of the invention to provide a lantern of the kind mentioned with means of greater area than the base proper, which may be adjusted when the user is walking or moving about, so as to form a reflector of the light, which reflector, when the lantern is placed in a stationary position and it is desired to light its surroundings, may be folded under the base, or bottom, and so form a broader and more secure support for the lantern and in this way providing with greater certainty against the upsetting of the device.

To these ends the invention consists of a lantern comprising the construction and combination of parts, all as I will now proceed to describe and claim.

Reference is to be had to the annexed drawings and to the letters marked thereon, forming a part of this specification, the same letters designating the same parts or features, as the case may be.

Figure 1 is a side elevation of a lantern equipped with my improvement, adjusted to form a reflector of the light. Fig. 2 is a similar view, but showing the reflector adjusted in position beneath the base of the lantern to form a broader and more secure support for the latter when it is placed in stationary position by being allowed to rest upon its base.

In the drawings *a* designates the frame or case, which may be of any suitable form and character to hold and protect a light or luminous body contained therein.

b designates a bail or handle with which the lantern may be provided in order to enable the user to carry it about when desired, and *c* is the base, affording a support for the lantern and a means of retaining the lamp *d* in proper place and position.

All of the parts so far described may be formed as shown or be otherwise constructed.

e designates the reflector of greater area than the base *c*, which may be formed of metal or any other material or substance capable of reflecting or mirroring a light. The reflector *e*, as shown in Fig. 1, is slightly concave or provided with a rim projecting beyond its face toward the lantern, and is adapted to be adjusted at the side of the light in the lantern when it is desired to employ it as a reflector, and be also adjustable beneath the base *c* to form a secure and firm support for the lantern when a reflector is not needed, or when it would be disadvantageous to employ it. The means for pivotally or hingedly connecting the reflector to the lantern and latching or holding it in adjusted position may be varied. As herein shown, a link *f* is pivotally connected at one end with the base *c* and at the other end with the edge of the reflector. This enables the latter to be raised to position at the side of the lantern with its reflecting face opposite the light therein, as shown in Fig. 1, and to be folded down beneath the base *c*, to afford a broader and more secure bottom or support for the lantern than it would otherwise have, as shown in Fig. 2.

g is a link pivoted at one end to the reflector *e* and adapted at the other end to engage a catch *h* on the frame *a* to hold the reflector up, as represented in Fig. 1, or to be engaged with a catch *i* on the base *c* to maintain the said reflector in place beneath the base, as portrayed in Fig. 2. Any other suitable means for latching the reflector in desired position may, however, be employed.

Owing to the concave shape of the reflector, its reflecting surface, when it is turned around or to the position shown in Fig. 2, is above and out of contact with the support upon which the lantern may be placed, and therefore liability of scratching or soiling the face of the reflector is avoided, while the base *c* of the lantern rests directly upon the back of the reflector. Furthermore, any oil that may be on the base of the lantern is prevented from being deposited upon the face of the reflector.

By my invention I am enabled to provide a lantern with a reflector which may be brought into requisition when desired, as when it is

carried to light a road or pathway, and which may be employed to render the support for the lantern more secure than it otherwise would be when it is stood upon its bottom, and the reflector is not needed. And furthermore, by my invention, I am enabled to provide a reflector of greater area than it could be if adapted to fit underneath and within the base.

Having thus explained the nature of the invention and described a way of constructing and using the same, though without attempting to set forth all of the forms in which it may be made or all of the modes of its use, it is declared that what is claimed is—

The combination with a lantern, of a concave reflector of greater area than the base

proper of the lantern, a link pivotally connected with the base and with the reflector whereby the latter may be turned to a position to support the lantern on its back, and means for securing the reflector in this position or when turned to a vertical position at the side of the lantern, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 24th day of October, A. D. 1892.

FREDERICK A. SMITH.

Witnesses:

ARTHUR W. CROSSLEY,
M. W. JACKSON.