

H. B. FERNALD.
Signal-Lanterns.

No. 142,223.

Patented August 26, 1873.

Fig. 1.

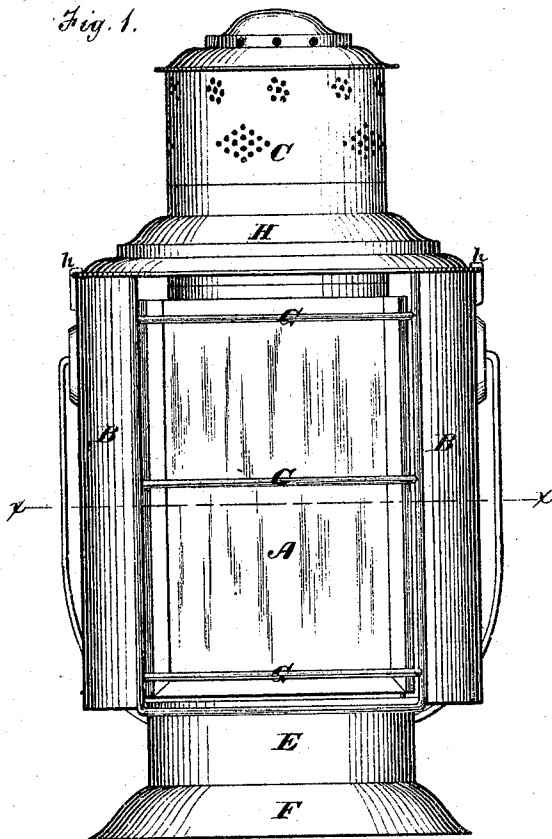


Fig. 2.

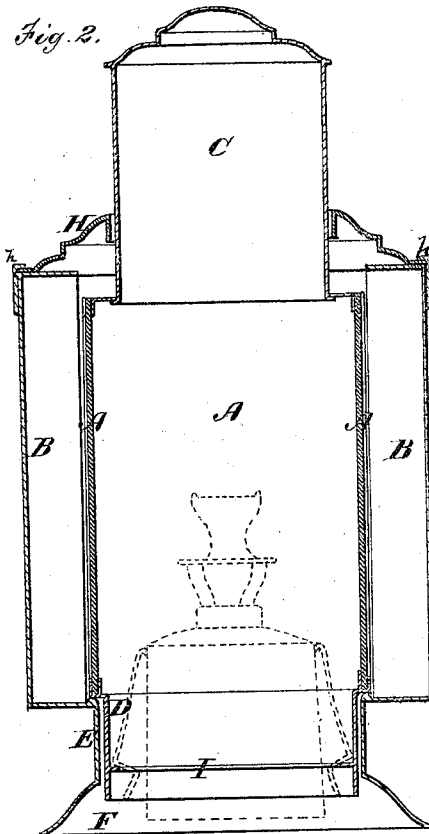
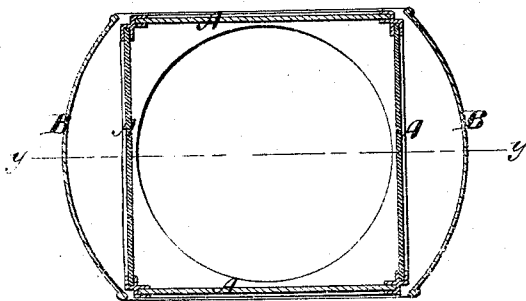


Fig. 3.



Witnesses.
C. F. Brown
D. M. Ellsworth

Inventor.
H. B. Fernald.
by his Attys.
Hill & Cleaves

UNITED STATES PATENT OFFICE.

HENRY B. FERNALD, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN SIGNAL-LANTERNS.

Specification forming part of Letters Patent No. 142,223, dated August 26, 1873; application filed September 17, 1872.

To all whom it may concern:

Be it known that I, HENRY B. FERNALD, of the city and county of Washington and District of Columbia, have invented certain new and useful Improvements in Signal-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 part of this specification, in which—

Figure 1 is a side elevation of the apparatus complete. Fig. 2 is a vertical section in the line *y y* of Fig. 3; and Fig. 3 is a horizontal section in the line *x x*, Fig. 1.

Similar letters in the accompanying drawings denote the same parts.

This invention has for its object to improve the construction of signal-lanterns having glasses of various hues for railroads, steamboats, &c., in such manner as to make the lantern rotatable within its case, in order that it may emit light of different colors at different times. To this end the invention consists in the combination, with an inclosing-case, of a lantern having a part projecting to or beyond the bottom of the case, which part forms means for conveniently supporting the lamp and turning the lantern, as I will now proceed to describe.

In the drawings, A are the variously-shaded glasses of the lantern, attached thereto in the usual manner; and B is the inclosing-case, open on two sides. From the top of the lantern a dome, C, projects above the top of the case, and from the bottom of the lantern a ring, D, extends downward within the ring E at the lower end of the case. The ring D terminates a little short of the bottom of the foot F of the lantern. The lamp is inserted within the ring D, and supported with springs attached to the lantern, and resting on the flange I of the ring, as shown in Fig. 2. G are wires extending from one part of the case to the other across the open sides of the same, to protect the lantern. The annular top H of

the case that incloses the dome C is removable, having grooves in its outer edge, by means of which it can be slipped between ears *h* attached to the sides of the case, after which, by turning the ring H, its edge passes under the ears *h*, and it is held thereby.

The part H can be removed from the case by turning it backward till its slots coincide with the ears *h*, when it can be lifted clear of them. The lantern can then be taken out of the case or placed in it.

When the apparatus is carried on the arm the lantern can be turned by applying the hand to the ring D; and in this respect my invention differs from other rotating lanterns, which are turned by applying the hand to the body of the lantern through the open sides of the case.

Lugs extending downward from the lower corners of the lantern enter holes made for their reception in the case, and so serve to steady the lantern. When the latter is to be revolved it has to be lifted, so that the lugs are clear of the holes.

When the lantern is elevated at the top of a post it can be turned by applying suitable means to the ring D.

Having thus described my invention, what I claim is—

1. The lantern A, having the ring D extending vertically downward from its lower end, and provided on its inside with the flange I for supporting the lamp, in combination with the case B, having the ring E extending downward from its lower end, and inclosing and protecting the ring D and the lamp, all these parts being arranged substantially as described.

2. The case B, combined with the detachable top H, in the manner specified.

HENRY B. FERNALD.

Witnesses:

M. CHURCH,
N. K. ELLSWORTH.