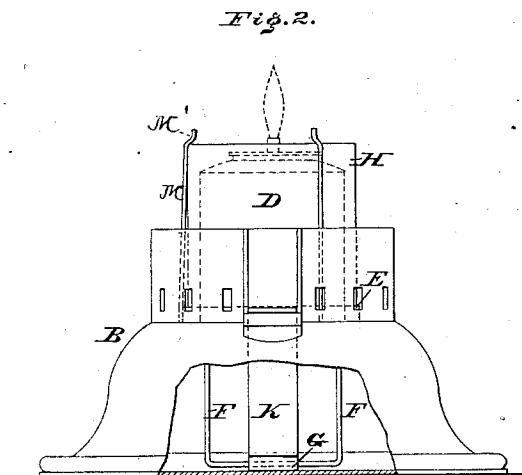
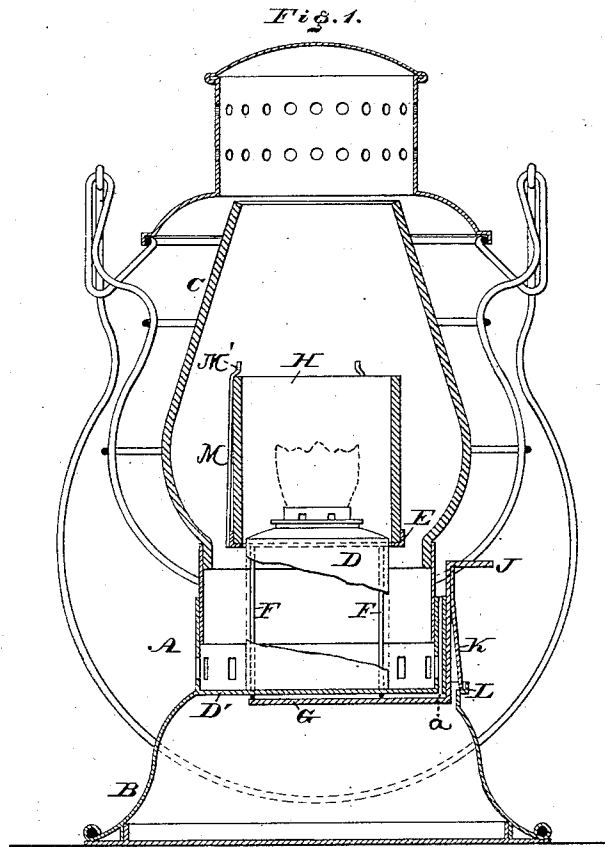


(No Model.)

A. H. PHILLIPPI.
SIGNAL LANTERN.

No. 310,464.

Patented Jan. 6, 1885.



WITNESSES:

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SIGNAL-LANTERN.

SPECIFICATION forming part of Letters Patent No. 310,464, dated January 6, 1885.

Application filed May 21, 1884. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM H. PHILLIPPI, a citizen of the United States, residing in the city of Reading, county of Berks, State of Penn-
sylvania, have invented a new and useful Im-
provement in Signal-Lanterns, which improve-
ment is fully set forth in the following specifi-
cation and accompanying drawings, in which—

Figure 1 is a central vertical section of a lan-
tern embodying my invention. Fig. 2 is a side
view of the lower part of the lantern, a por-
tion of the base being broken away.

Similar letters of reference indicate corre-
sponding parts in both the figures.

My invention relates to that class of signal-
lanterns in which a colored-glass cylinder may
be raised around or depressed below the light;
and the invention consists in providing the
supports of such cylinder with a handle lo-
cated at the side of the lantern, where it is
most conveniently accessible, and avoids the
operation of the cylinder from beneath the lan-
tern, a spring depending from said handle, and
a base with a ledge to sustain the finger when
the cylinder is raised.

It also consists of spring-fingers provided
with shoulders for removably supporting the
cylinder.

Referring to the drawings, A represents a
lantern, and B the base; C, the globe, and D
the lamp thereof. Loosely encircling the body
of the lamp is a ring or annulus, E, from which
depend arms F, preferably of wire, the same
passing freely through the plate D', which sup-
ports the lamp, and are connected at the bot-
tom by a bar, G, forming, together, a rising
and falling frame which supports a colored-
glass cylinder, H, the latter resting on the annu-
lus E, and made of such height that when it
is lowered it clears the flame of the lamp and
an ordinary white light is shown, and when
said cylinder is raised it surrounds the flame
and is illuminated thereby, so that a colored
light is displayed, this feature, however, broad-
ly considered, not being new.

Rising from the bar G and connected there-
with or made continuous thereof, as shown in

the drawings, is a handle, J, which passes freely
through an opening, a, in one side of the plate
D', and is presented at the side of the lamp,
and consequently of the lantern. A plate or
flat spring, K, depends from the top of the
handle J, and a ledge, L, is formed on the up-
per part of the base B, adjacent to the open-
ing in the plate D', through which the handle
J and connected spring K are passed for sup-
porting the handle when raised. It will be
seen that when a colored light is required, the
handle J is lifted and the annulus E follows
the motion thereof, and thus the cylinder H is
raised, surrounding the flame of the lamp. As
soon as the spring K clears the opening in the
plate D' its lower end is free to expand, which
it does over the ledge L, and then rests thereon,
so that the cylinder is firmly supported. (See
Fig. 1.)

In order to lower the cylinder, the spring K
is pushed in until it registers with the opening
in the plate D', whereby it loses its support,
and thus the cylinder, its support, and the
handle, with its spring, drop, the cylinder thus
uncovering the flame, as seen in Fig. 2.

It will be noticed that the handle is located
at the side of the lantern, so that the cylinder
may be operated in a most convenient manner,
avoiding the application of the hand beneath
the lantern, the handle being also exposed at
the side of the lantern or located on the exter-
ior thereof, so that it may always be seen
whether the lantern is being carried or resting
on the ground, thus avoiding loss of time in
operating the colored cylinder.

In lieu of glass for the cylinder H, I may
use mica or other transparent substance and
color the same in any desirable manner, and
it is evident that it may be of any color.

In order to hold the cylinder on the annu-
lus E, I employ spring-fingers M, which press
inwardly and rise from and are secured to the
annulus, the upper ends of the fingers having
shoulders M', which embrace the top edge of
the cylinder, thus pressing the cylinder firmly
downward on the annulus, and also sustaining
it laterally, so that vertical and lateral dis-

placement of the same is prevented, the cylinder, however, being readily removable by forcing out the fingers, so that their shoulders clear the top edge of the cylinder.

5 I am aware that it is not new to provide signal-lanterns with handles at the side thereof for raising and lowering colored-glass cylinders thereof, and with springs for holding said cylinders in raised position. In one case the
10 spring acts by friction on an inner part of the base of the lamp and has an uncertain holding power, especially when the lamp is swung or waved. In another case the spring moves inwardly in order to hold the cylinder elevated, and requires a handle attached to the
15 same to draw it out, two handles thus being employed. In my case, when the cylinder is raised the spring K is thrust at its lower end directly against a ledge on the base of the lantern, so that a firm support for the cylinder is
20 provided. Furthermore, the spring is exposed and presents a face against which the fingers of the hand may be pressed in order to move the bottom of said spring inwardly
25 from the inner end of the ledge, so that the cylinder may drop, the spring still providing

friction against the wall of the opening, in which it moves in its descent, to prevent abrupt dropping of said cylinder.

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

1. In a signal-lantern, a colored cylinder, a rising and falling support for the same, and a handle connected with said support at the side
35 of the lantern, in combination with a spring depending from and connected with said handle, and a ledge on the base of the lantern, against which the bottom of said spring is thrust when the cylinder is raised, substantially as and for the purpose set forth. 40

2. In a signal-lantern, a colored cylinder and a support for the same, in combination with inwardly-pressing spring-fingers formed with shoulders which engage with the top of
45 said cylinder, substantially as and for the purpose set forth.

A. H. PHILLIPPI.

Witnesses:

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JNO. K. PLITT.