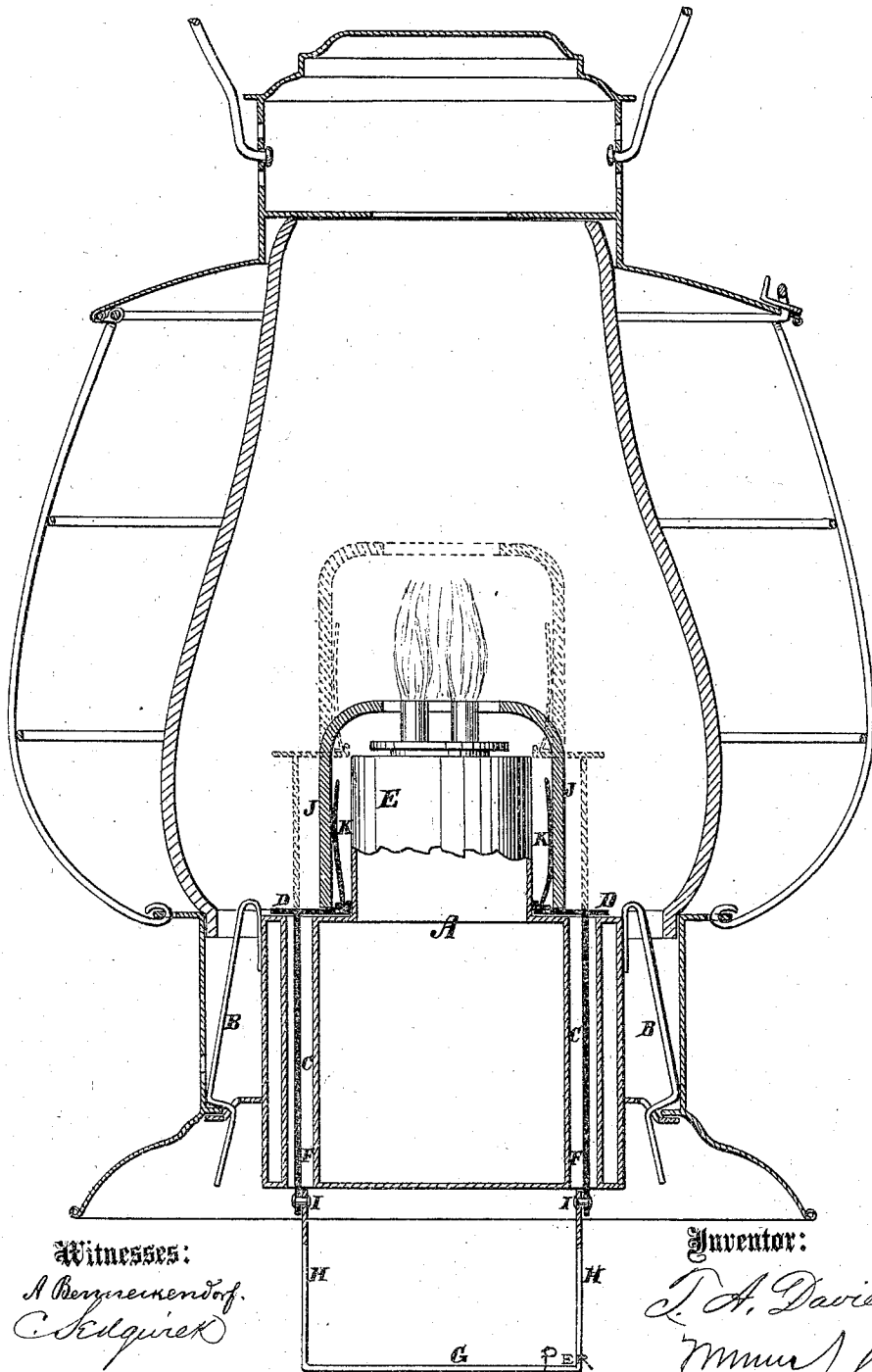


T. A. DAVIES.
Signal-Lanterns.

No. 135,783.

Patented Feb. 11, 1873.



Witnesses:
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UNITED STATES PATENT OFFICE.

THOMAS A. DAVIES, OF NEW YORK, N. Y.

IMPROVEMENT IN SIGNAL-LANTERNS.

Specification forming part of Letters Patent No. 135,783, dated February 11, 1873.

To all whom it may concern:

Be it known that I, THOMAS A. DAVIES, of the city, county, and State of New York, have invented a new and useful Improvement in Oil-Cups for Hand-Lanterns for different-colored lights, of which the following is a specification:

The invention relates to an improvement in the class of hand signal-lanterns in which a colored glass cylinder is arranged to be vertically adjusted around the flame to change the white to a colored light; and the improvement consists in a peculiar construction of parts with a view to securing compactness and also efficiency and reliability of operation.

The accompanying drawing represents a hand-lantern provided with an oil-cup and colored shade or cylinder according to my invention.

Similar letters of reference indicate corresponding parts.

A represents the oil-cup, which is introduced into and supported in the lantern in the ordinary manner—that is, by means of the springs B B. C C are tubes which pass directly through the oil-cups. D is a movable ring, which surrounds the upper section E of the oil-cup and rests on the top of the lower section when it is down, as seen in the drawing. F F represent rods or strips of metal, which are securely attached to the ring D, and pass therefrom down through the tubes C C. G is the handle, the arms H H of which are composed of strips of metal of about the size of the rods F, so that they will readily enter the tubes C C. They are attached to the rods F F by the joint-pivots I I, so that when drawn down, as seen in the drawing, the handle can be turned up against the bottom of the oil-cup, and not extend below the bottom of the lantern. On the top of the ring D I place a colored shade or cylinder, J, made

of glass or other suitable material. This colored cylinder surrounds the upper section E of the oil-cup and wick-tubes when it is not in use. It is open at the bottom, but contracted or drawn in at the top so as to leave an opening of about one inch around the wick-tubes, as seen in the drawing. This cylinder of colored material J is kept in a central position around the section E by means of the springs K—three, more or less—which are fastened to ring D.

As seen in the drawing, the lantern will show the ordinary white light. When a colored light is required, it is only necessary to push up the handle G. This raises the colored cylinder to the position seen in dotted lines. The colored cylinder now surrounds the flame, and the rays of light are contracted by its curved top, so that none but colored rays can be thrown laterally in either direction. This colored cylinder is removed with the oil-cup, and with an oil-cup thus constructed can be used in any ordinary hand-lantern.

The cylinder or material J may be of any color—red, blue, or yellow, or other color, as may be desired.

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

1. In combination with the oil-cup provided with the tubes C C and with the annular plate D for supporting the colored cylinder J, the rods F and H, jointed so as to fold, as specified.
2. The lantern oil-cup or lamp provided with the tubes C running vertically through it for receiving the elevating-rods F, as specified.

THOS. A. DAVIES.

Witnesses:

T. B. MOSHER,
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