No. 699,526. Patented May 6, 1902.

E. B. HUGHES.

SIGNAL LANTERN.

(Application filed Jan. 10, 1902.)

(No Model.)

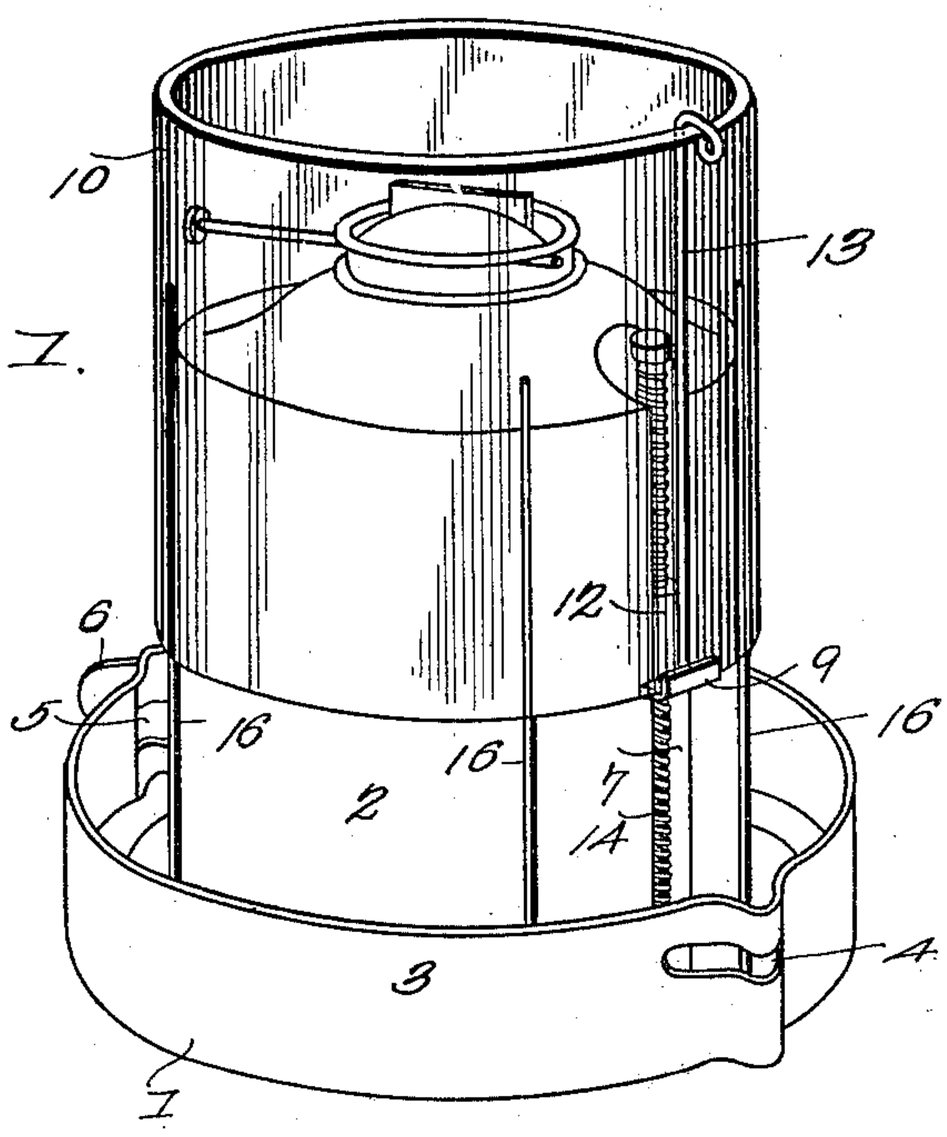
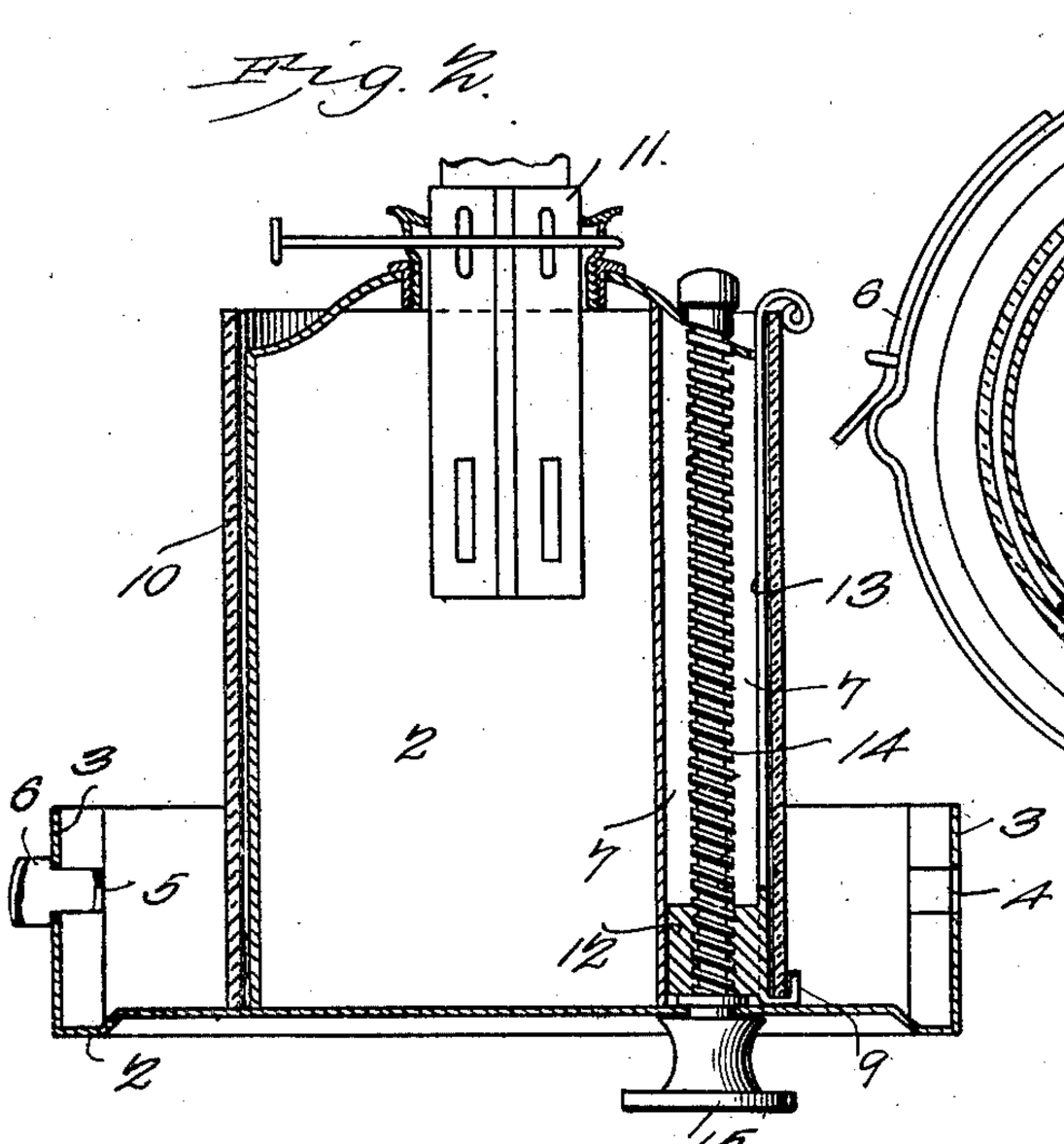
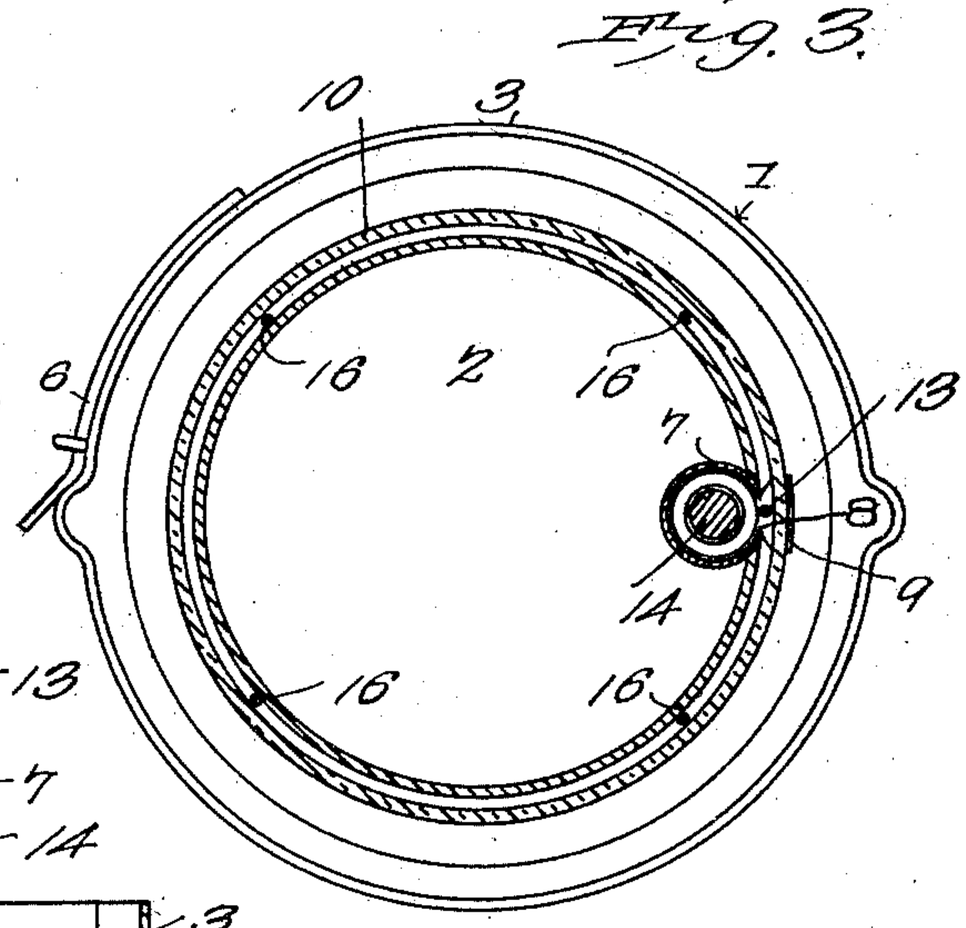


Fig. 1.

Fig. 3.

Fig. 4.





Witnesses
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UNITED STATES PATENT OFFICE.

EDWARD B. HUGHES, OF COLORADO SPRINGS, COLORADO.

SIGNAL-LANTERN.

SPECIFICATION forming part of Letters Patent No. 699,526, dated May 6, 1902.

Application filed January 10, 1902. Serial No. 89,175. (No model.)

To all whom it may concern:

Be it known that I, EDWARD B. HUGHES, a citizen of the United States, residing at Colorado Springs, in the county of El Paso and State of Colorado, have invented a new and useful Signal-Lantern, of which the following is a specification.

The invention relates to improvements in signal-lanterns.

The object of the present invention is to improve the construction of signal-lanterns of that character which are adapted to be manipulated by the operator to change the color of the light and to provide a simple, inexpensive, and efficient construction for guiding and supporting a supplemental globe and for raising and lowering the same to arrange it in front of the light and to withdraw it from such position.

The invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of the base of a signal-lantern. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a horizontal sectional view.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a base provided with an oil-reservoir 2 and adapted to be secured within the bottom of a globe-receiving frame, (not shown,) and the said base is provided beyond the reservoir with a vertical flange 3, having slots 4 and 5 at opposite sides thereof. The slots 4 and 5 are arranged at outwardly-bowed portions or grooves and coöperate with the same to form L-shaped ways for the reception of projections or lugs of a globe-receiving frame, which is locked in engagement with the base by means of a suitable catch 6. The bottom of the base extends outward beyond the reservoir, and the vertical flange is located at the periphery of the base. The reservoir is provided at one side with a vertical depression or groove, forming a tubular channel 7 and having a contracted opening or slot at the outer side of the groove or channel for the neck 8 of a support 9, and the latter receives a supplemental globe 10, which is adapted to be raised to cause it to surround the burner 11 for displaying a colored light, the lantern being designed to be provided in the globe-receiving frame with an ordinary white globe. The supplemental globe is tubular or cylindrical, and the support 9, which receives the lower edge of one side of the supplemental globe is approximately L-shaped in vertical section and is provided with a cylindrical nut 12, connected with the support by the said neck and arranged to slide in the tubular groove or channel. The support is also provided with a resilient wire or rod 13, having an outwardly-extending head adapted to engage over the upper edge of the supplemental globe and forming a catch for holding the same securely on the seat of the support. The wire or rod is suitably secured to the support and to the nut, which is engaged by a vertical screw 14. The screw 14, which is swiveled to the bottom of the base, is provided at its lower end with a head 15, and it is preferably a left-hand screw and is adapted to be rotated to the right for raising the supplemental globe and to be rotated in the opposite direction for rotating the same.

The cylindrical nut, which fits snugly in the tubular or cylindrical guide, assists in supporting the screw, and the supplemental globe is also guided by means of vertical wires 16, arranged at intervals and secured to the exterior of the reservoir and extending slightly above the same.

The operating mechanism is compactly arranged and is located wholly within the supplemental globe when the latter is in its lowered position, and the operating mechanism does not extend beyond the contour of the oil-reservoir. The screw is adapted to be readily rotated for raising and lowering the supplemental globe, and, if desired, the support may be duplicated; but it is preferable to use only one support. The catch formed by the resilient rod and its head is adapted to be readily sprung into and out of engagement with the upper edge of the supplemental globe, and the latter may be readily removed when it is desired to change the lantern for displaying either a red or a green light.

What I claim is—

1. In a device of the class described, the combination of a base having a reservoir and provided within the area of the same at the periphery thereof with a vertical channel having a contracted slot communicating with the exterior of the reservoir and forming an entrance to the channel throughout the length of the same, a vertically-movable globe-support provided with a nut arranged within the channel of the base, and a screw mounted on the base and engaging the nut and adapted to be rotated to raise and lower the support, substantially as described.

2. In a device of the class described, the combination of a base provided with a reservoir and having a channel or groove located within the area or contour of the reservoir at the periphery thereof and provided thereat with a contracted slot forming a peripheral entrance throughout the length of the groove or channel, a vertically-movable support provided with a seat adapted to receive a supplemental globe, said support being also provided with a nut arranged in the channel or groove, a catch mounted on the support for engaging the upper edge of a globe, and a screw mounted on the base and arranged within the groove or channel and engaging the nut, said screw being provided at the bottom of the reservoir with an exterior head, substantially as described.

3. In a device of the class described, the combination of a base having a reservoir and provided at one side thereof with a vertical groove or channel and having a peripheral entrance to the said groove or channel throughout the entire length of the same, a support having a nut slidably arranged in the groove or channel, a rod extending upward from the support and provided with a head arranged to engage the upper edge of a globe, and a screw mounted on the base and arranged in the groove or channel and engaging said nut, substantially as described.

4. In a device of the class described, the combination of a base provided at one side with a vertical groove or channel and having a contracted slot forming a peripheral entrance to the groove or channel throughout the length of the same, a support having a seat for a supplemental globe and provided with a nut slidably arranged within the groove or channel, a screw mounted on the base and arranged within the groove or channel and engaging the nut, said screw being provided with an exterior head, a catch for holding the globe on the support, and the vertical wires secured to the exterior of the reservoir and forming guides for the globe and spacing the same from the reservoir, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

EDWARD B. HUGHES.

Witnesses:

WILLIAM E. HOOK, Jr.,

ROBERT SCHWARZ.