

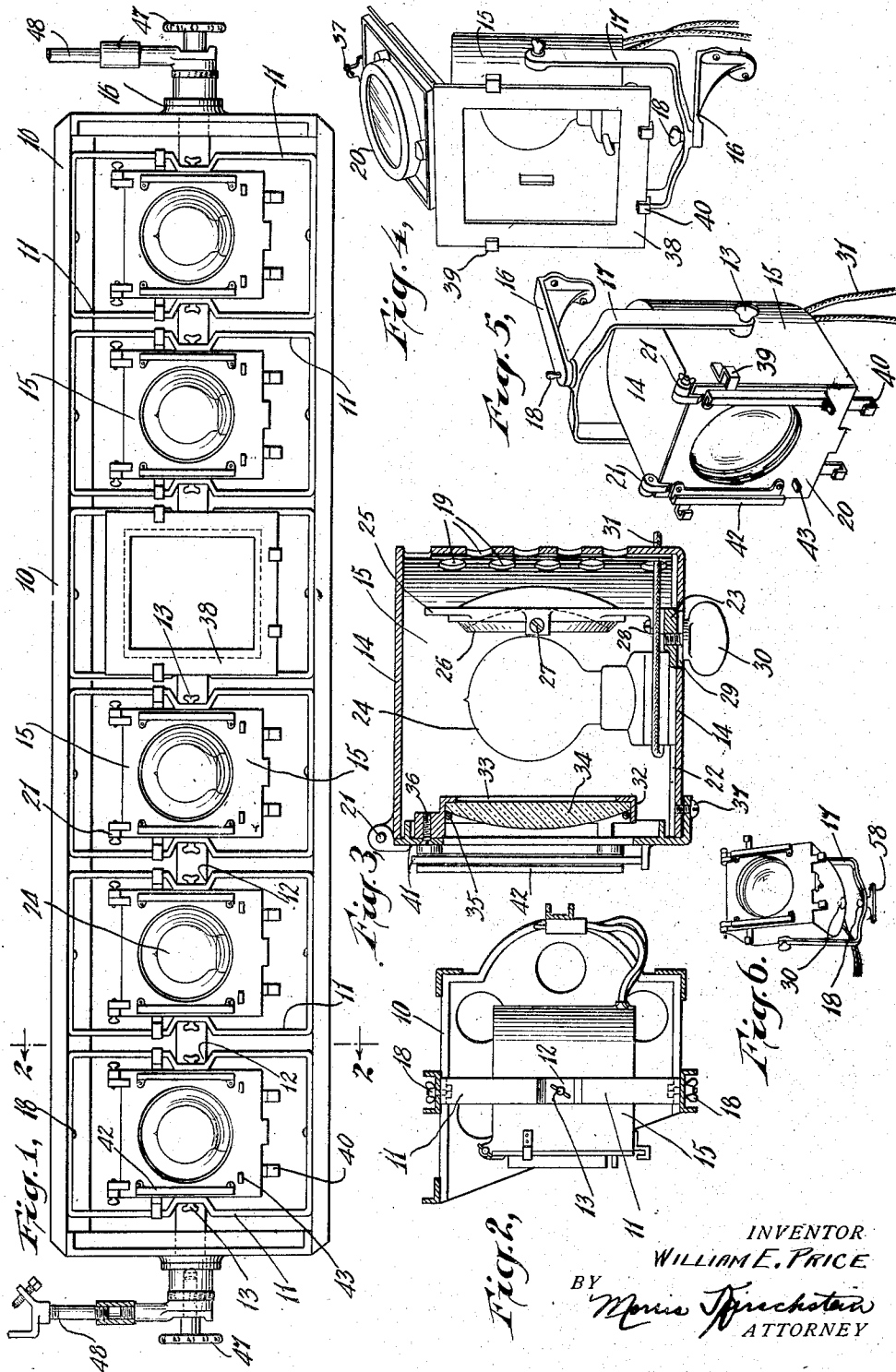
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W. E. PRICE

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LANTERN

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LANTERN.

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This invention relates to lanterns and to mounting means therefor. More particularly, the invention is directed to lanterns and supporting frames therefor for use in stage, display and window lighting.

One object of this invention is to provide a simple and efficient supporting frame or mounting for clamping one or more lanterns in any position so that the light therefrom may be quickly and easily projected in any direction.

Another object is to provide a practical and efficient supporting frame or mounting wherein a series of lanterns may be adjustably supported in juxtaposition.

A further object is to provide in a lantern of the character described, simple means adapted to be manipulated from the outside of the lantern for adjusting the lamp relatively to the lens.

A still further object is to provide a lantern of the character described with a door adapted to carry the lens in such manner as to permit the latter to be made temporarily inoperative, readily removed for repair or replacement and which door shall further provide easy access to the interior of the lantern for the ready manipulation and adjustment or replacement of the parts thereof.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements and arrangement of parts which will be exemplified in the construction hereinafter described and of which the scope of application will be indicated in the following claims.

In the accompanying drawings, in which is shown one of various possible illustrative embodiments of this invention,

Fig. 1 is a front elevational view of a series of lanterns embodying this invention in place in the improved mounting or supporting frame;

Fig. 2 is a vertical sectional view taken along line 2—2 of Fig. 1;

Fig. 3 is a vertical mid-section of a lantern embodying this invention;

Fig. 4 is a perspective view of the lantern showing the lens thereof temporarily inoperative;

Fig. 5 is a perspective view of the lantern 55 mounted in an individual frame adapted to support the lantern from the top; and

Fig. 6 is a similar view showing the lantern mounted in a similar individual frame adapted to support the lantern from the 60 bottom.

Referring in detail to the drawing, 10 indicates a supporting frame adapted to receive a series of lanterns embodying this invention. The latter are supported in individual frames 11, each of which is pivotally and removably secured at the top and bottom thereof to the supporting frame 10, by suitable means such as the wing nut and bolt 18. A trough shaped indented portion 12 is struck in from the frame 11 at the 70 sides thereof to allow sufficient room for the supporting screws 13, which pass through the frame 11 and into the lantern casing 14, whereby the lantern 15 is pivotally supported at the sides, top and bottom thereof, and is arranged to be adjusted and clamped to throw the light in any desired direction.

For suspending the main supporting frame 10, a suitable bearing 16 is provided 80 in each end thereof, a clamp screw 47 being arranged to engage said bearing from clamping said frame in adjusted position to the suspending bracket 48. It will be seen that by reason of the adjustable mounting 85 of the lantern, it becomes possible to direct the light from the series of bank of lanterns so as to produce any desired lighting effect.

Each of the lanterns 15 may be used separately as a spot light if desired, or it may be 90 used for throwing a diffused light over the area it is intended to illuminate, means being provided for so suspending or supporting an individual lantern that the light therefrom may be directed toward any point. 95 Said means may comprise the wall bracket 16, which may be secured to a wall at the proper height, for suspending the lantern therefrom as shown in Fig. 5 or for holding up the lantern from below as shown in 100 Fig. 4. Fastened to the bracket 16 is the U-shaped frame 17, which is adjustably and

removably secured to the sides of the casing 14 by means of the clamping wing screws 13.

Where it is desired to support the lantern 15 from a floor, the base support 58 is substituted for the wall bracket 16 as shown in Fig. 6.

The lantern proper comprises a casing 14 having ventilating holes 19 in the rear thereof, and a door 20 preferably hinged as at 21 to the upper front portion of the casing. The inside face of the bottom of said casing is grooved at 22 to receive the carrier 23, on which is mounted a suitable lamp 24 and a supporting frame 25, the latter being secured to said carrier 23 by means of a screw 28. Removably supported in said frame 25, as by means of the screw 27, is a reflector 26. In the bottom of the casing 14 is a slot 29 through which the wing screw 30 is inserted and screwed into the carrier 23, said screw 30 serving to secure the said carrier in the desired adjusted position in the groove 22. For providing power with which to illuminate the lamp, wires 31 enter the rear of the casing and are suitably connected in the usual manner to the lamp 24.

On the inner face of the door 20, is secured the lens holder 32, having an opening 33 therein through which the light of the lamp 24 passes before it reaches the lens 34, said lens being held in said holder 32 by means of the usual spring wire clip 35, while screws as 36 serve to removably secure the holder 32 to the door 20. When it is desired to utilize the light from the lamp 24 without concentration on any particular point, the screw 37 removably securing the door to the bottom of the casing 14 is loosened and the door lifted upwardly about the hinge 21 into the position shown in Fig. 4, the usual frame 38, which has an opening therein of any desired shape, being dropped into position in front of said lamp to limit the area lighted, in the usual manner. The frame 38 is held laterally in guide members 39 on the sides of the casing 14, and is supported at the bottom by means of similar guide members 40. When it is desired to use a colored spot light, a frame 41 having the usual colored screen therein is inserted into the grooved guides 42 suitably secured on the outside of the door 20, the latter being provided with stops 43 which serve to support said frame 41 at the bottom thereof.

My improved lantern may quickly be changed from a spot light to the usual illuminating lantern by merely raising the door and inserting the frame 38 into the guides 39 and 40. The color of the spot light may be quickly changed by the insertion of the color screen 41 into the guides 42, while the area of illumination may be varied by unclamping the thumb screw 30, thereby loosening the lamp and reflector carrier 23, then adjusting said carrier toward or away

from the lamp. Ready adjustment of the lantern to throw the light in any direction is quickly and easily effected by first loosening the thumb nuts 18 and 12, and then clamping said nuts after adjustment.

It will be seen that the above described manipulation and adjustments are readily accomplished, that all the parts are within easy reach of the operator, and that the interior of the lantern is made easily accessible by merely lifting the door 20.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawings is to be interpreted as illustrative and not in a limiting sense.

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

1. A rectangular main frame for supporting a series of illuminating lanterns, a rectangular secondary frame for each lantern fitted into the main frame and pivoted for adjustment about a vertical axis, indented portions on opposite sides of said secondary frame for allowing the adjustment of said lantern about a horizontal axis therebetween, and set screws passing through the indented portions removably engaging the sides of said lanterns and pivotally supporting same.

2. In a lantern of the type described, a casing having a front opening therein normally adapted to be closed by a door having a lens, said door mounted on the casing for relative movement with respect to said opening and means on the exterior side of the rim of said opening for engaging with and supporting a demountable frame for carrying a color screen over said opening operative after said door has been moved out of its normal position.

3. In combination, a main frame mounted for horizontal swinging movement, a series of secondary frames supported on the main frame and pivoted for adjustment about a vertical axis, a lantern mounted for swinging movement in each of the secondary frames, each lantern having a front opening therein normally closed by a door having a lens, said door hinged to one side of the casing opening, and supporting means on the adjacent side of the casing opening for engaging with a demountable frame for carrying a color screen in front of said opening.

4. In combination, a series of lanterns, means for mounting said lanterns for universal swinging movement to permit distri-

bution of the light therefrom in various directions over an area, said means including a horizontally pivoted main frame and series of vertically pivoted secondary frames, 5 each of the latter swingably supporting a lantern, each lantern having a front opening normally closed by a hinged door having a lens for selectively providing spot of flood lighting on said area, supporting means adjacent the sides of the casing opening for 10 engaging with a demountable frame for carrying a color screen in front of said opening.

In testimony whereof I affix my signature.

WILLIAM E. PRICE.