

Aug. 31, 1926.

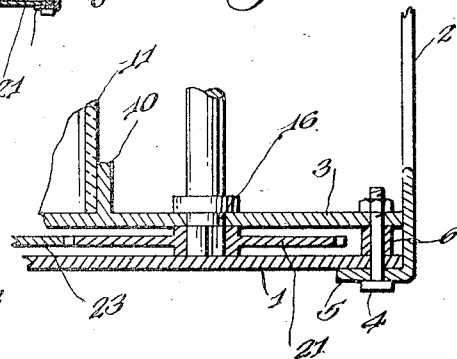
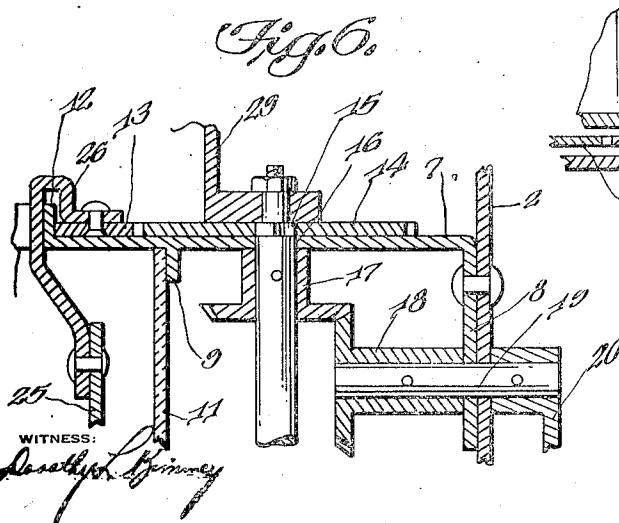
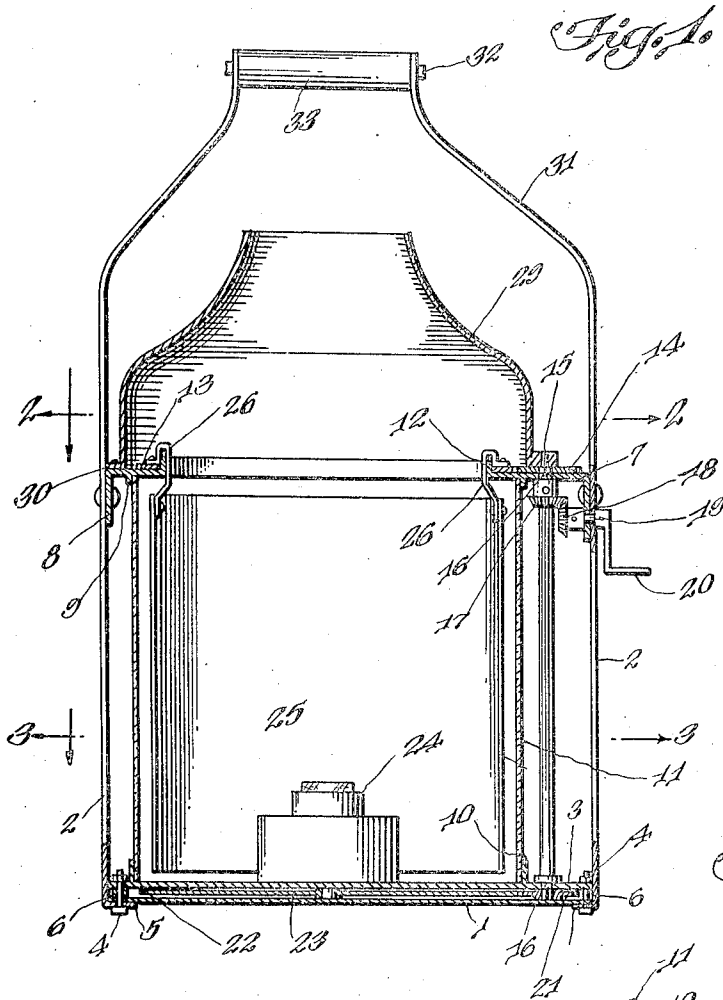
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1,598,502

LANTERN

Filed Feb. 11, 1925

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

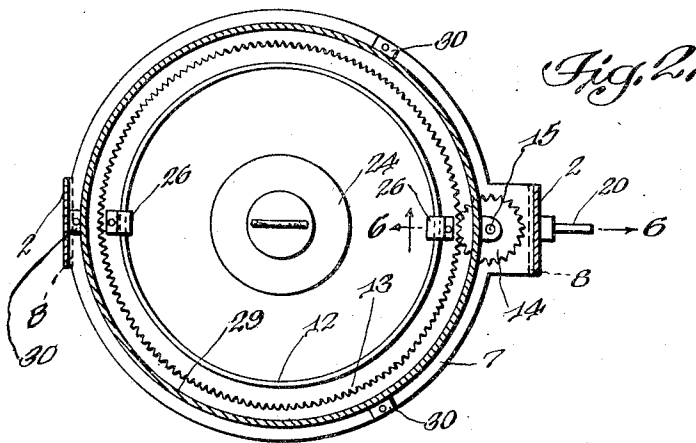


Fig. 2.

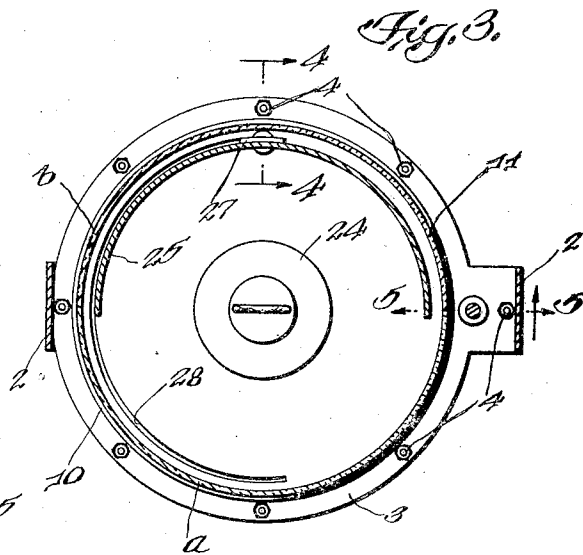


Fig. 3.

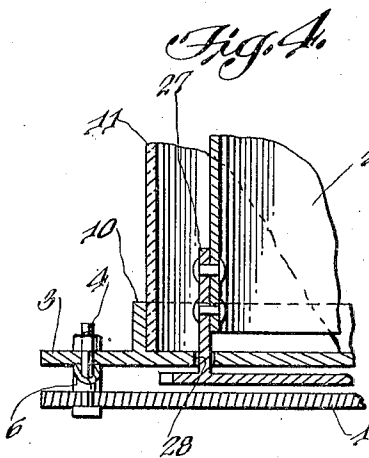


Fig. 4.

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LANTERN.

Application filed February 11, 1925. Serial No. 8,501.

This invention relates to new and useful improvements in lanterns and more particularly to that type which is used by railroad men. The main object of my invention is the provision of a lantern having a bicolored globe with means for covering one of the colors of the globe so that only one color at a time is used.

Another object of my invention is the provision of a lantern having a sectional globe, one section including red coloring while the other section is transparent together with improved means for positioning a hood in front of one of the sections while the other section is in use so that the lantern may be used to display an ordinary light or red light for use in signalling.

With the above and other objects in view, my invention consists in the novel features of construction and the combination and arrangement of parts to be hereinafter more fully described, pointed out in the claims and shown in the accompanying drawings, in which:

Fig. 1 is a vertical sectional view through my improved lantern,

Fig. 2 is a transverse section on the line 2—2 of Figure 1,

Fig. 3 is a transverse section on the line 3—3 of Figure 1,

Fig. 4 is a detail section taken on the line 4—4 of Figure 3,

Fig. 5 is a detail section on the line 5—5 of Figure 3, and

Fig. 6 is a detail section on the line 6—6 of Figure 2.

In carrying out my invention, I provide a substantially circular base plate 1 to which the lower ends of the side arms 2 are connected. Arranged in superposed relation with respect to the base plate 1, is a plate 3 and in order to connect the plates 1 and 3 and the lower ends of the arms 2, suitable bolts 4 are provided which extend through the inturned flanges 5 on the lower ends of the side arms and through the plates 1 and 3 adjacent the perforations. In order to retain the plates 1 and 3 in equal spaced relation, suitable sleeves 6 are mounted upon the bolts 4 and disposed between the two plates.

An annular supporting flange 7 is attached to the side arms 2 above and in spaced relation with the plate 3, said flange being angular in cross-section with its ver-

tical section 8 riveted or otherwise connected to the side arms as shown in Figure 1.

The horizontal portion of the flange 7 is provided with a downturned annular rim 9 at a point adjacent its inner edge and this rim 9, together with the rim 10 extending upwardly from the plate 3, form suitable guides for the globe 11 which is disposed between the flange 7 and the plate 3.

The inner edge of the flange 7 is turned upwardly as at 12 and arranged around the upturned flange 12 is a circular rack 13 adapted to be engaged by a pinion 14 which is carried by the shaft 15. This shaft 15 is supported in suitable bearings 16, one arranged in the plate 3 and the other arranged in the flange 7, the shaft bridging the space between the flange 7 and plate 3. The shaft 15 carries a bevelled gear 17 which is adapted to mesh with a second bevelled gear 18 on the stub shaft 19. This shaft 19 is mounted in the vertical flange 8 and one of the side arms 2 as shown in Figure 1. The outer end of the shaft 19 carries a crank arm 20 whereby movement will be imparted to the shaft 19 for rotating the shaft 15, pinion 14 and circular rack 13.

Arranged upon the lower end of the shaft 15 is a pinion 21 which meshes with the teeth 22 formed on the periphery of a rotatable disc 23 which is positioned between the base 1 and the plate 3, thus through manipulation of the crank arm 20, the circular rack 13 and disc 23 are rotated simultaneously.

A burner 24 is mounted upon the plate 3 and positioned centrally within the globe 11 and the rays of light from the burner 24 may pass either section of the globe and in order to prevent the light from passing through one section while the other section is in use, an arcuate hood member 25 is provided, the upper end of which is attached to the circular rack 13 by means of the hangers 26 while the lower end thereof is connected at its central portion to the disc 23 by means of an upstanding tongue 27, as illustrated in Figure 4. The tongue 27 moves in an arcuate slot 28 formed in the disc 23 and when this tongue 27 is in either end of the slot 28 either the red section or the transparent section of the globe 11 will be covered while the rays from the burner 24 are passing through the other section of the hood.

A chimney 29 is arranged over the upper

end of the globe 11 having out-turned flanges 30 at its lower end which are riveted or otherwise secured to the flange 7. The upper ends of the side arms 2 converge, as shown at 31 and their extreme upper ends are arranged in spaced relation with perforations therein to receive the trunnions 32 of a handle member 33, any suitable means being used for retaining the trunnions in connection with the arms.

It will be apparent from the foregoing that I have provided a comparatively inexpensive lantern which will be of great convenience for use by railroad men in that a great many instances occur where there is use for both a red lantern and a transparent globe lantern and with my invention either a plain light or a red light may be quickly and readily brought into position for display through manipulation of the crank 20.

The globe 11 is formed in two sections indicated as "a" and "b", the section "a" preferably being of a transparent material while the section "b" is colored, thus it will be apparent that when the hood 25 is moved so that the tongue 27 is disposed in either end of the slot 28, the hood 25 will be in position to prevent the rays of light from the burner 24 from passing through the section covered by the hood.

While I have shown and described the preferred form of my invention, it will be obvious that various changes in the details of construction and in the proportions may be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from the scope of the appended claims.

Having thus described my invention, what I claim is:

1. A lantern including a frame, a light supported thereby, a sectional globe carried by the frame and surrounding the light, said globe including a transparent section and a colored section, a movable hood carried by the frame, a circular rack connected to the upper end of the hood, a tooth disc attached to the lower end of the hood, a shaft, pinions on each end of the shaft engaging with the rack and disc respectively and manual means for imparting movement to the shaft whereby to move the hood to cover one of said sections while the other is in use.

2. A lantern including a frame, a light supported thereby, a sectional globe carried by the frame and surrounding the light, said

globe including a transparent section and a colored section, a movable hood carried by the frame, a circular rack connected to the upper end of the hood, a tooth disc attached to the lower end of the hood, a shaft, pinions on each end of the shaft engaging with the rack and disc respectively, manual means for imparting movement to the shaft whereby to move the hood to cover one of said sections while the other is in use and means limiting the movement of the hood whereby when the hood is moved the limit of its movement in one direction it will be properly positioned to cover one of the sections of the globe.

3. A lantern including a frame, a light carried thereby, a sectional globe enclosing the light, said globe including a transparent section and a colored section, a hood, a circular rack rotatably mounted upon the frame and having connection with the upper end of the hood, a tooth disc having connection with the lower end of the hood, a shaft, a pinion on each end of the shaft engaging the rack and disc respectively, a stub shaft carried by the frame, a bevelled gear on the inner end of the stub shaft, a second bevelled gear on the first shaft engaging the bevelled gear on the stub shaft and a crank on the stub shaft whereby to manually impart movement to the first shaft for moving the hood to cover one section of the globe while the other is in use.

4. A lantern including a frame, a light carried thereby, a sectional globe enclosing the light, said globe including a transparent section and a colored section, a hood, a circular rack rotatably mounted upon the frame and having connection with the upper end of the hood, a tooth disc having connection with the lower end of the hood, a shaft, a pinion on each end of the shaft engaging the rack and disc respectively, a stub shaft carried by the frame, a bevelled gear on the inner end of the stub shaft, a second bevelled gear on the first shaft engaging the bevelled gear on the stub shaft, a crank on the stub shaft whereby to manually impart movement to the first shaft for moving the hood to cover one section of the globe while the other is in use and means limiting the movement of the hood whereby when the same is moved the limit of its movement in either direction said hood will be properly positioned for covering either section of the globe.

In testimony whereof I affix my signature.

JOHN A. PEVOVARCHUK.