

J. D. SAMPLEY.
SIGNAL LAMP RAISING DEVICE.
APPLICATION FILED APR. 1, 1911.

1,013,069.

Patented Dec. 26, 1911.

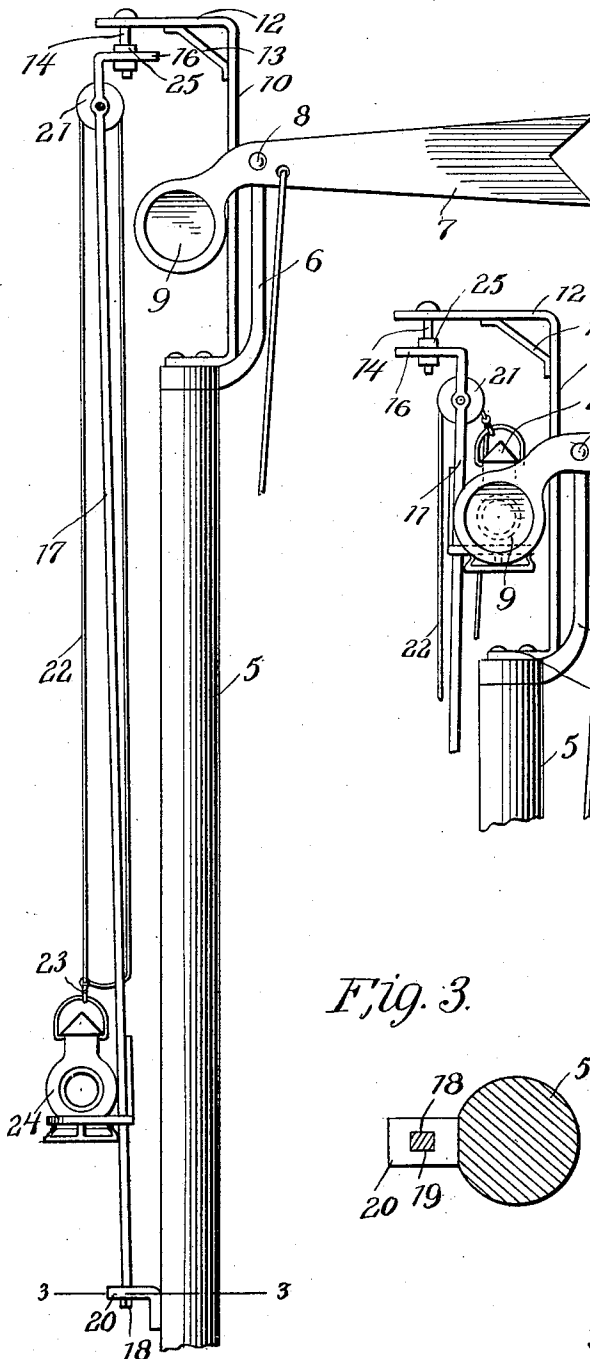


Fig. 1.

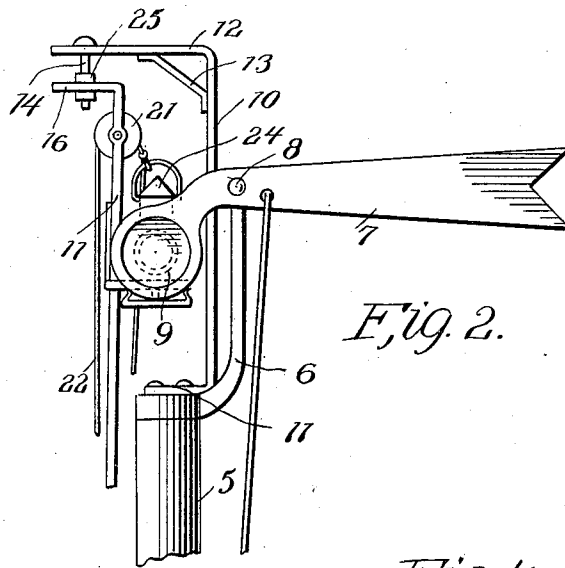


Fig. 2.

Fig. 3.

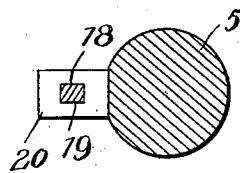
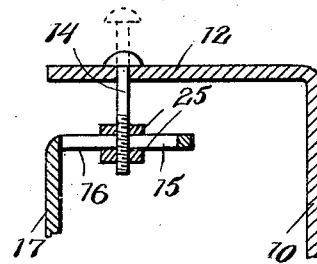


Fig. 4.



Witnesses
William Smith.

W. O. Parker.

Inventor
John D. Sampley.

By *Victor J. Evans*
Attorney

UNITED STATES PATENT OFFICE.

JOHN D. SAMPLEY, OF BUCHANAN, TERRITORY OF NEW MEXICO.

SIGNAL-LAMP-RAISING DEVICE.

1,013,069.

Specification of Letters Patent.

Patented Dec. 26, 1911.

Application filed April 1, 1911. Serial No. 618,301.

To all whom it may concern:

Be it known that I, JOHN D. SAMPLEY, a citizen of the United States, residing at Buchanan, in the county of Guadalupe and Territory of New Mexico, have invented new and useful Improvements in Signal-Lamp-Raising Devices, of which the following is a specification.

The invention relates to a signal lamp raising device for semaphores.

The primary object of the invention is the provision of a device of this character in which a lamp may be raised, so as to position the same directly in rear of the signal lens in a semaphore arm, without requiring the use of a ladder, or necessitating an attendant climbing the semaphore pole.

Another object of the invention is the provision of a device of this character in which the signal lamp or light may be raised or lowered in a ready and convenient manner, and also that will permit the adjustment of the light or lamp when positioned in rear of the lens in the semaphore arm, so as to permit the proper positioning of the lantern or light for the reflection thereof through the said lens of the semaphore arm, whereby trains may be signaled.

A further object of the invention is the provision of a device of this character for use on semaphore poles, whereby the signal light or lantern may be raised or lowered to and from its place by an operator when standing upon the ground, thereby obviating the necessity of climbing the semaphore ladder or its pole.

A still further object of the invention is the provision of a device of this character which is simple in construction, thoroughly reliable and efficient in operation, and inexpensive in manufacture.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts, as will be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claims hereunto appended.

In the drawings: Figure 1 is a side elevation of a semaphore, showing the device mounted upon its pole with the signal light or lantern in lowered position. Fig. 2 is a similar view, showing the light or lantern in raised position and in rear of the lens in

the semaphore arm. Fig. 3 is a horizontal sectional view on the line 3—3 of Fig. 1. Fig. 4 is a fragmentary vertical sectional view through the support and the turning bar, showing the manner in which the latter may be adjusted relative to the support.

Similar reference characters indicate corresponding parts throughout the several views of the drawings.

Referring to the drawings by numerals, 5 designates a pole of the ordinary well-known semaphore, which has mounted at its upper end a bracket 6, to which is pivotally connected a swinging semaphore blade or arm 7, the pivot 8 connecting it with the bracket 6 being spaced from the rear end of the semaphore arm in which is fitted the usual colored disk 9 for giving a signal light in the direction of an approaching railway train, the semaphore arm 7 being operated in the usual well-known manner.

Fixed to and rising from the upper end of the semaphore pole 5 is a hanger or support, comprising a metallic strip 10, the ends 11 and 12 thereof being bent at right angles to said strip 10, the end 12 being of greater length than the end 11 which is suitably secured to the pole. Connected to the end 12 and to the strip 10 is a brace member which strengthens the said end 12. Swiveled in the end 12 is a depending pin 14, the same being engaged in an elongated slot 15 formed in the inbent extremity 16 of a turning bar 17, the same being flat throughout a greater portion of its length, and is provided at its opposite extremity with a squared shank 18 fitting within a correspondingly-shaped opening 19, formed in a bearing ear 20 suitably fixed to the pole, the said bearing ear 20 being fixed to the pole spaced from the ground.

Journaled in the turning bar 17 at the top end thereof is a guide pulley 21, over which is trained an endless cable 22, the latter carrying a clip 23 to which is detachably connected a signal light or lantern 24, which is of the ordinary well-known construction. Thus upon actuating the endless cable or rope 22, the lantern 24 may be raised or lowered on the turning bar 17 and when in raised position near the upper end of the said turning bar 17, the latter may be shifted or rotated a quarter turn for bringing the said lantern 24 directly in rear of the

transparent glass disk 9 in the semaphore arm 7, whereby the rays of light from the lantern may be carried through the said disk for the signaling of trains.

5 Threaded on the pin 14 above and below the inturned extremity of the turning bar 17 are jam nuts 25, which lock the turning bar in adjusted position. Upon loosening the nuts 25 on the pin 14, the turning bar 17
10 may be adjusted for bringing the same closer to or farther away from the signal pole 5, thereby centering the lantern 24 with respect to the colored disk 9 in the semaphore arm 7 when the lantern 24 has been
15 raised and positioned in rear of the said disk in the semaphore arm. After the adjustment has been made, the nuts 25 are tightened against the inturned extremity 16 of the turning bar 17 to sustain it in adjusted
20 position with respect to the pole.

The squared shank 18 when engaged in the squared opening 19 in the bearing ear 20 will lock the turning bar 17 against rotation, but upon disengagement of said shank 18
25 from the said opening in the bearing ear, the said turning bar may be shifted when the lamp has been raised, whereby it may be swung free from the pole to permit the lowering thereof, or when the same has been
30 lowered and it is desired to raise it for swinging the same into position rearwardly of the disk in the semaphore arm.

What is claimed is:

1. The combination with a semaphore
35 pole, of a support fixed to the upper end thereof and having a right angular extension, a pin swiveled in the free end of said extension, a turning bar having an inbent elongated slotted end slidably engaging said
40 pin, means locking the inbent end in adjusted position on the pin, means normally

holding the bar against turning movement, and lantern raising and lowering means supported by the turning bar.

2. The combination with a semaphore 45 pole, of a support mounted thereon, a pin swiveled in said support, a turning bar arranged parallel with the pole and having an elongated slotted inbent end slidably engaging said pin, jam nuts carried by the 50 pin and working against the inbent end of the bar for holding it in adjusted position on the pin, a squared shank formed on the bar at its opposite end, a bearing ear fixed to the pole and having a squared opening 55 for receiving said shank for locking the turning bar against movement, and lantern raising and lowering means carried by the said turning bar.

3. The combination with a semaphore 60 pole, of a support mounted thereon, a pin swiveled in said support, a turning bar arranged parallel with the pole and having an elongated slotted inbent end slidably engaging said pin, means on the pin engaging 65 the inbent end of the bar for holding it in adjusted position on the pin, a squared shank formed on the bar at its opposite end, a bearing ear fixed to the pole and having a squared opening for receiving said shank 70 for locking the turning bar against movement, lantern raising and lowering means carried by the said turning bar, and means for detachably connecting a lantern to said last-named means. 75

In testimony whereof I affix my signature in presence of two witnesses.

JOHN D. SAMPLEY.

Witnesses:

J. HARRINGTON,
EUCLID D. MILLER.