

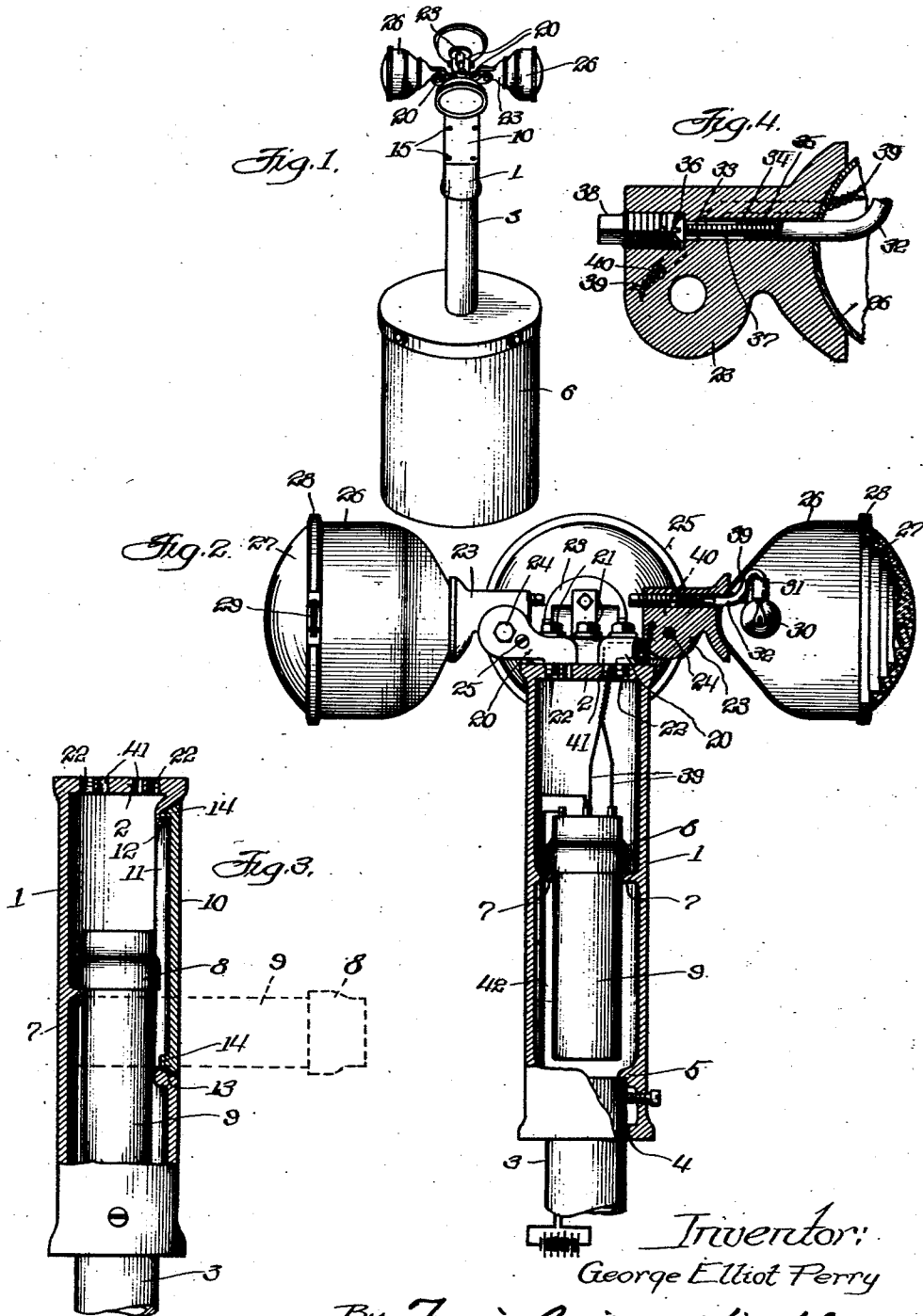
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LAMP SUPPORT

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LAMP SUPPORT.

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To all whom it may concern:

Be it known that I, GEORGE ELLIOT PERRY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Lamp Supports, of which the following is a specification.

This invention relates to lamp supports.

It will be explained as applied to a support for a highway signal lamp.

One of the objects of the invention is to provide an improved lamp support.

Another object is to provide a support allowing ready adjustment of the position of the lamp and the direction of light projection.

Another object is to provide a weather and waterproof support for an electric lamp and for housing a lamp flasher or circuit interrupter.

Another object is to provide a support wherein the flasher is readily installed and accessible for inspection, adjustment and repair.

Another object is to provide a support which is inexpensive to manufacture, durable and ornamental.

Other objects and advantages will hereinafter appear.

An embodiment of the invention is illustrated in the accompanying drawing, wherein—

Fig. 1 is a perspective of a support carrying four signal lamps.

Fig. 2 is an enlarged sectional view of the upper part of the support.

Fig. 3 is a section of the tubular casing of the support taken substantially at right angles to the section of Fig. 2, and

Fig. 4 is an enlarged sectional view of the lamp adjusting means.

The support chosen for illustration carries four lamps but it will be readily apparent that the same may carry a greater or lesser number.

The support has a tubular casing 1 which may be made of any desired shape, for example of substantially square cross section. The casing may be made of suitable material such as cast iron.

The top of the casing is closed by an integrally formed wall 2. The bottom is open to receive the end of a standard or post 3. The post may be a suitable length of ordinary iron pipe. The lower edge of casing 1

has a continuous inwardly projecting flange 4 which fits about the post. Above flange 4 is an inwardly projecting flange 5 which has an annular shoulder in which the end of pipe 3 fits. The casing and post are secured together by suitable means, such as screws. The height of the support may be varied by varying the amount the post is telescoped within the casing.

The lower end of post 3 is secured to and communicates with a suitable pedestal 6. Pedestal 6 provides a chamber to enclose and protect the batteries which supply the lamps and flasher with current. The pedestal may be sunk into the ground to provide a firm anchorage for the lamp support, and offer little obstruction to traffic and better protection against injury by collision.

The interior of casing 1 is provided with inwardly projecting lugs 7 which engage the cap ring 8 of an automatic flasher or interrupter 9. An electromagnetic flasher which has given excellent results is disclosed in copending application Serial No. 395,514; filed July 12, 1920.

One side of casing 1 is provided with an opening through which the flasher and wiring may be installed and readily inspected after installation. This opening is closed by a door 10.

Around the margin of this opening the casing is provided with an inwardly extending flange 11. Flange 11 has an inwardly extending groove or gutter 12 extending continuously around the top and both sides of the opening. The bottom of the flange has an inclined upper surface 13.

Door 10 has an inwardly projecting bevel-surfaced bead 14 around the outer edge thereof. Bead 14 fits into gutter 12, but not to the bottom thereof, and somewhat loosely against surface 13. The door may be held in place by suitable means such as set screws 15.

When the door is set and secured in place the gutter provides a ready passage for moisture which may collect about or be driven against the door. The water passes through the gutter around the door opening and runs out over the inclined surface 13. Suitable packing may be placed between the door and casing 1, but, ordinarily, no packing will be necessary since the gutter readily carries off the water and thus prevents the same from entering the casing.

A lamp bracket 20 for each lamp is mounted upon the top of casing 1. The lamp bracket may be made of suitable material such as cast iron. The lower surface of the
 5 base of each bracket is machined flat to rest squarely upon the machined upper surface of end 2 of the casing. Each bracket is perforated to receive a set screw 21 which extends into a threaded hole 22 in the top of
 10 the casing. This set screw firmly clamps the lamp bracket to the top of the casing and, upon being loosened, allows ready horizontal pivotal movement and removal.

The upper end of each bracket 20 is bifurcated to receive the end of a reflector and lamp holder 23. Holder 23 also may be made of cast iron. Each fork of bracket 20 has a hole therethrough, one being threaded. A screw 24 pivotally secures holder 23 to
 20 bracket 20. The holder is pivotally movable in a vertical plane by loosening screw 24. A set screw 25 may be added to assist in securing the holder in any adjusted position.

25 The front end of holder 23 is cupped to receive the base of a reflector and lamp housing 26. Reflector 26 may be made of suitable material such as sheet steel. The front of the reflector is closed by a suitable lens 27.
 30 The lens is secured to the reflector by means of a channel shaped metal band or split ring 28 which is tightened and clamped in place by a screw 29. A packing washer may be inserted inside of ring 28 to make a tighter
 35 joint, if desired.

Lamp 30 is held in a socket 31 which is supported on the end of a solid iron rod 32. Rod 32 is bored out and internally threaded at its rear end and passes through openings
 40 in reflector 26 and into a hole 33 in holder 23. Hole 33 is drilled or cored through holder 23. The front end of hole 33 fits rod 32 and is provided with a small axial slot 34. A pin 35 on rod 32 lies in slot 34 to
 45 prevent the rod from rotating. The rear end of hole 33 is threaded to receive a threaded metal bushing 36.

A screw 37, whose head is larger than the opening in bushing 36, passes through hole
 50 33 and threads into the end of rod 32. A screw plug 38 threads into the rear end of hole 33 to close the hole and cover and protect the head of screw 37 and bushing 36. Turning screw 37 threads the same to a
 55 greater or less extent into or out of the end of rod 32 and consequently, when its head is again clamped against the shoulder in hole 33 by bushing 36, varies the position of lamp 30 relative to the focus of reflector 26.

60 The wires 39 from the flasher pass to the lamp through holes 40 which are cored or drilled in the bracket, holder and reflector, and a hole 41 in the top of casing 1. Other conductors 42 lead to a source of current
 65 such as batteries in pedestal 6.

The rod supporting the lamp is curved so that the most efficient part of the filament is on the line of the axis or focus of the reflector. Turning screw 37 varies the adjustment of the lamp and the pivotal movement,
 70 allowed by bracket 20 and holder 23 allows of a ready change in the direction of light projection. When the flasher is in place it is supported in a generally vertical position on lugs 7. When it is desired or necessary
 75 to inspect or adjust the flasher the casing door is readily removed and the flasher may be withdrawn entirely or may be supported in a horizontal position by the lugs, as shown by the dotted lines of Fig. 3.

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

1. A lamp support comprising a bracket having a plane surface adjacent one end for adjustable clamping to a base, and the other end bifurcated, a lamp holder fitting within the bifurcated end of the bracket and pivotally secured thereto, a lamp socket support
 85 extending into a hole in the holder, and means for clamping the lamp support in various adjusted positions relative to the holder.

2. A lamp support having a reflector holder with a shouldered opening there-
 90 through, a rod extending into said opening and carrying a lamp socket at one end and being internally threaded at the other end, a screw threading into the rod and having a head adapted to abut against the shoulder
 100 in the opening of the holder, and a plug for clamping the head of the screw against the holder and permitting access to the screw for the purpose of adjusting the same.

3. A lamp support having a reflector and lamp holder with a hole therethrough, a reflector secured to the holder and having a hole aligning with the hole in the holder, a rod passing through the aligned holes in the reflector and holder and carrying a lamp
 105 socket at one end and being threaded at the other, cooperating elements on the rod and the holder for preventing relative rotation therebetween but permitting longitudinal
 110 movement of the rod, and means cooperating with the threaded end of the rod for adjusting the position thereof.

4. A lamp support having a bracket, a reflector and lamp holder pivotally carried by the bracket, said holder having an opening
 120 therethrough, a reflector carried by the holder, a rod extending into the opening in the holder and projecting into the reflector, an adjusting screw threading into one end of the rod, means associated with the holder
 125 to clamp the screw in any adjusted position, and a lamp socket carried by the rod within the reflector.

5. A lamp support having a reflector and lamp holder with a shouldered hole there-
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through, a reflector secured to the holder and having a hole aligning with the hole in the holder, a rod passing through the aligned holes in the holder and the reflector
5 and adapted to support a lamp socket at one end within the reflector and being internally threaded at the other end, a screw threading into the rod and having a head adapted to abut the shoulder in the holder
10 so that when the head is against the shoulder the rod projects into the reflector a distance depending upon the amount the screw is threaded into the rod, and a plug for sealing the hole in the holder to prevent access to the screw and for clamping the head of 15 the screw against the shoulder.

In testimony whereof I hereunto subscribe my name.

GEORGE ELLIOT PERRY.