

May 11, 1926.

1,584,276

H. M. COULTER
ELECTRIC HEADLIGHT

Filed July 12, 1924

2 Sheets-Sheet 1

Fig. 1.

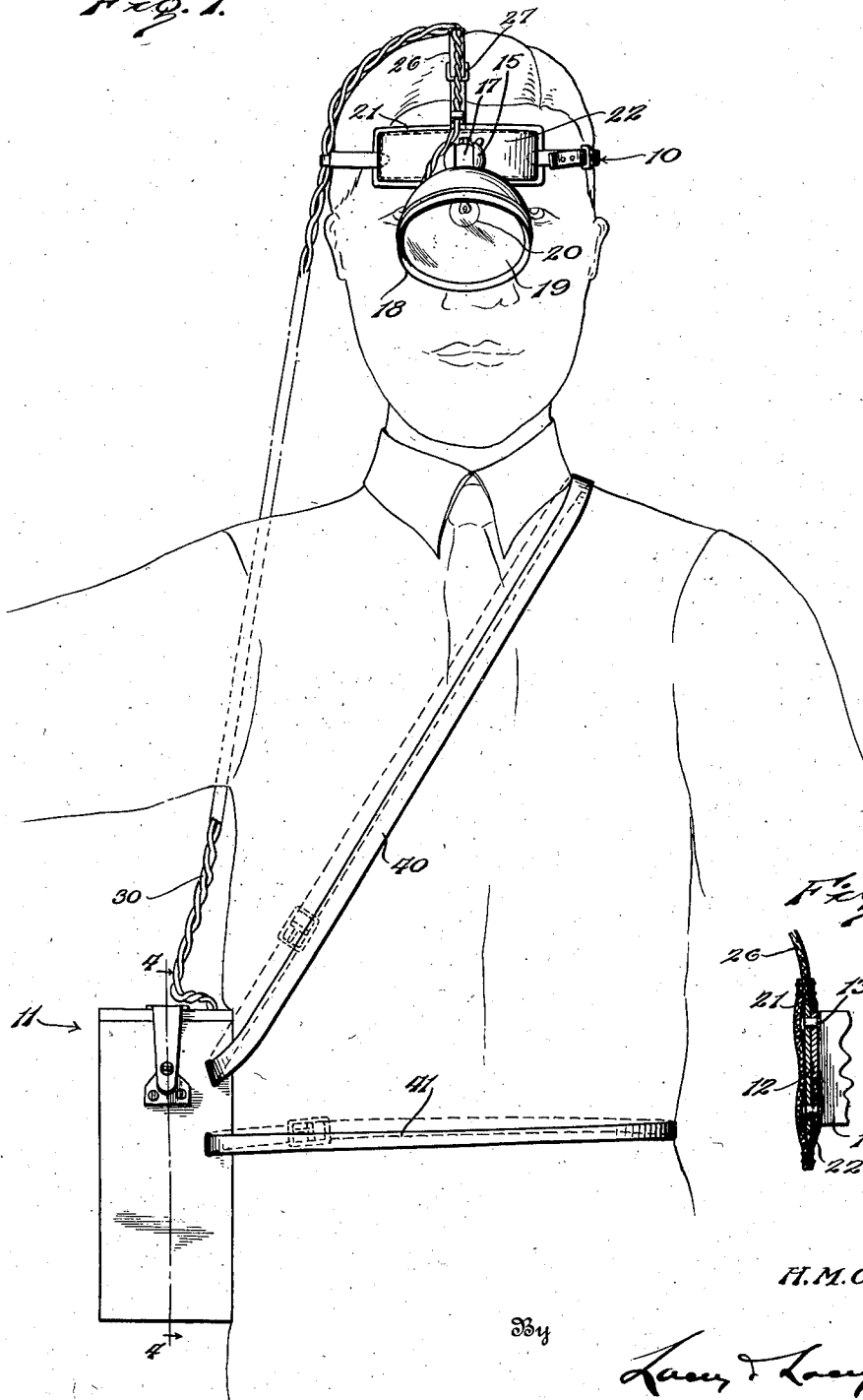
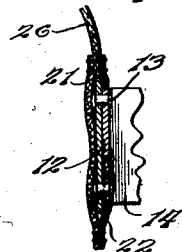


Fig. 6.



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Fig. 2.

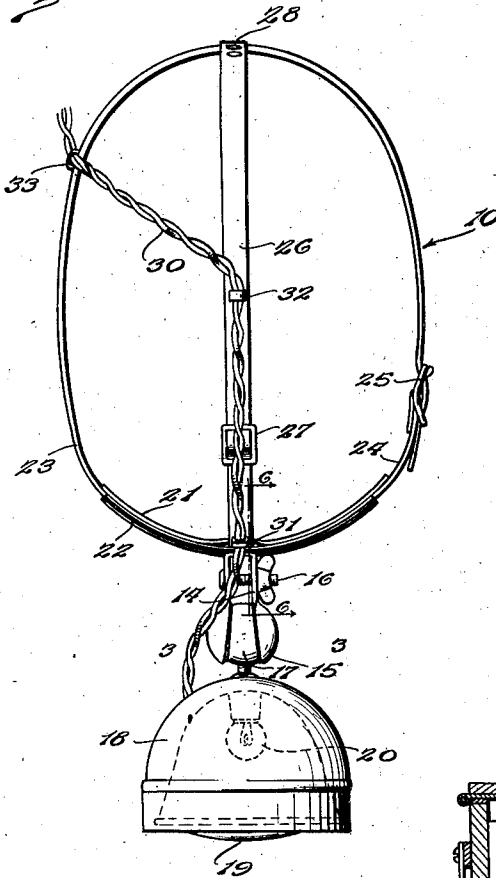


Fig. 3.

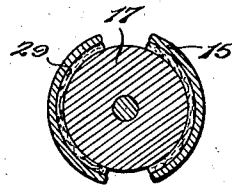


Fig. 4.

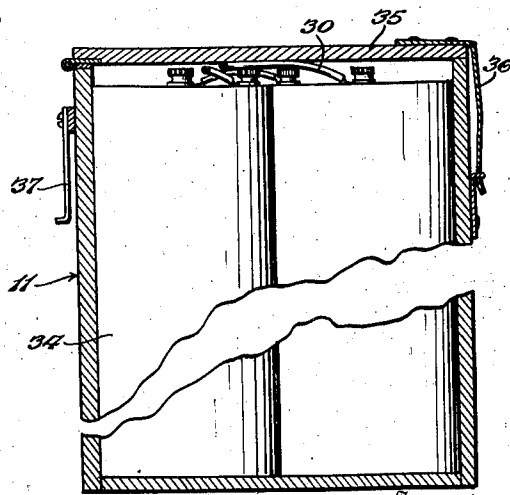
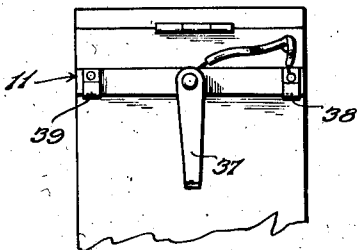


Fig. 5.



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UNITED STATES PATENT OFFICE.

HARRINGTON M. COULTER, OF SHAFTSBURY, VERMONT.

ELECTRIC HEADLIGHT.

Application filed July 12, 1924. Serial No. 725,568.

My invention relates to a headlight including carrier and battery for the same arranged in such a manner that it may be conveniently attached to the operator's head and body. The device has many uses, as, for instance, for hunters at night as the light may be lined up with a gun barrel. It is also useful for persons needing a sharp light directly on their work when working at night, such as harness stitching and work around automobiles and other machinery, as it leaves both hands of the operator free and directs the light exactly on the parts to be operated upon. It may also be used as a miner's lamp.

In the accompanying drawings, one embodiment of the invention is illustrated, and

Figure 1 is a front elevation of the device as attached to an operator's head and body;

Figure 2 is a top plan view of the head set with the lamp;

Figure 3 is a detail section through the ball and socket joint;

Figure 4 is a section on the line 4—4 of Figure 1 showing the battery box;

Figure 5 is a fragmentary end elevation of the box, and

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

In the drawings, the reference numeral 10 represents the head set of the device and 11 the battery box for the electric lamp. The head set consists of a shield 12 to which is attached, as by rivets 13, a resilient clip 14 having forwardly directed arms terminating with semi-spherical ball sockets 15. By means of a set screw and wing nut 16, the arms 14 may be drawn together in order to clamp the cups or sockets 15 around a ball 17 which is rigidly secured to the lamp carrier 18, as best seen in Figure 2. Between the cups and the ball are preferably provided packings 29 of some pliable material, such as leather or rubber. The lamp carrier is of any suitable construction provided with lens 19 in front of the electric lamp 20.

The shield 12 which is preferably made of spring steel and curved to the contour of the forehead of the operator is rectangular in shape and embedded between the inner and outer linings 21 and 22 which are stitched together around the edges. At each end of the shield is provided side straps 23 and 24 with a buckle 25 to tighten the same around the operator's head. These straps are secured by the same stitching as

the linings 21 and 22. From the top of the shield 12 extends rearwardly a top strap 26 also stitched to the linings 21 and 22 and provided with a buckle 27 for lengthening or shortening the same. The rear end of the top strap has a loop 28 which is taken around the side strap 23 in order to have slidable engagement therewith.

The reference numeral 30 represents a double conductor for the lamp 20 which continues from the same in upward direction through an eyelet 31 near the upper end of the shield through a second eyelet 32 on the upper side of top strap 26 and through a third eyelet 33 on the side strap 23. The other end of the double conductor 30 is taken to the battery box 11 and connected with the cells 34 therein. In Figure 4 a battery box containing two cells has been shown but it is evident that any number of cells may be provided according to the strength of the light in the lamp. The battery box has a hinged lid 35 held down by a clasp 36 and at one end of the battery box is furnished a switch 37 which, when swung in one direction, contacts with the terminal 38 and if swung in the opposite direction will be locked by a clasp 39 when no current is furnished for the lamp 20.

A shoulder strap 40 is secured on the battery box, as best seen in Figure 1, so that the operator may conveniently carry the battery box on one side or on his back. The reference numeral 41 designates a belt secured to the battery box and adapted to be taken around the operator's body to hold the box firmly thereon.

By means of the ball and socket joints 15 and 17 and the clamping screw 16, it is possible to adjust the position of the lamp in the direction desired so that it may point not only straight ahead of the operator but at any angle upwards, downwards or sideways as he may desire.

Having thus described the invention, I claim:

A headlight device comprising an elongated plate curved longitudinally to conform to the forehead, a casing for said plate formed of front and rear strips of greater dimensions than said plate and having their edge portions extending from the plate and joined together, said front strip being formed with an opening intermediate its length and width, a head encircling strap secured at one end to one end of said casing,

- a fastener connected with the other end of said casing and adapted for adjustable engagement with the free end of said strap to hold the strap tightly about the head, an
5 upper strap for extending over the head having its forward end secured to said casing intermediate the ends of the casing and having its rear end provided with a loop to slidably receive said head encircling strap,
10 a U-shaped bearing bracket secured to said plate within the opening of the front strip and having its arms projected forwardly from the plate and casing and terminating in socket-forming cups, a lamp including a casing and a shank extending rearwardly 15 from the casing and provided with a ball in close proximity to the casing, said ball being disposed between said cups, and means for moving said arms towards each other for tight gripping of the ball between the 20 cups.

In testimony whereof I affix my signature.

HARRINGTON M. COULTER. [L. s.]