

Dec. 30, 1941.

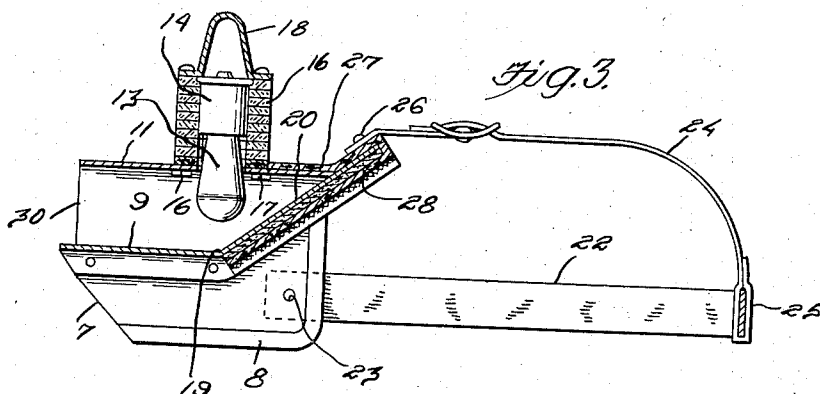
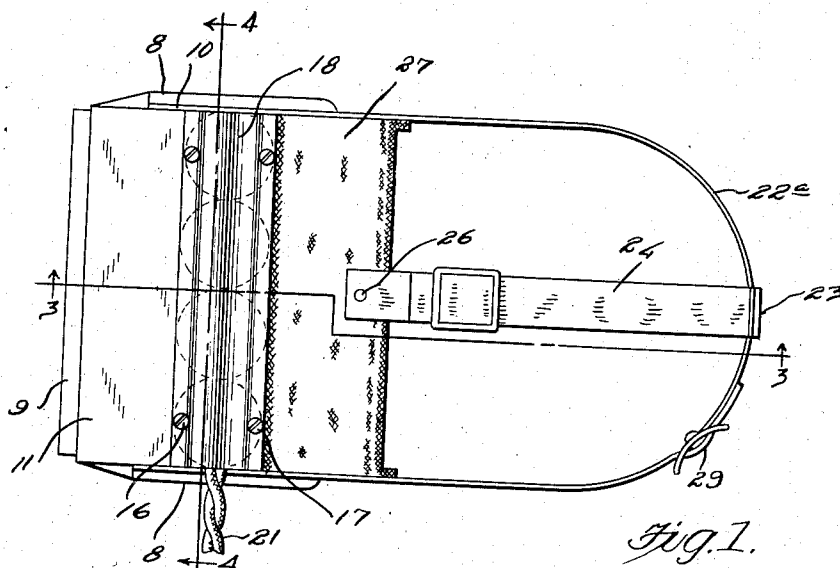
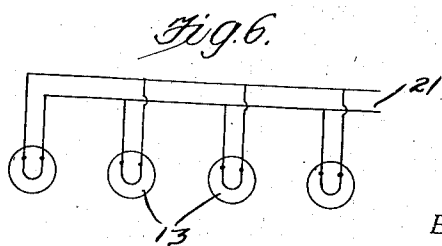
A. L. MADDOX

2,268,156

MECHANIC'S LIGHT

Filed Jan. 14, 1941

2 Sheets-Sheet 1



Inventor
Arthur L. Maddox

By

Clarence A. O'Brien

Attorney

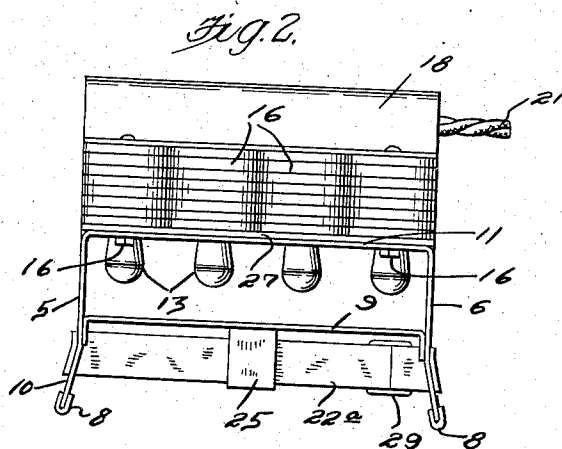
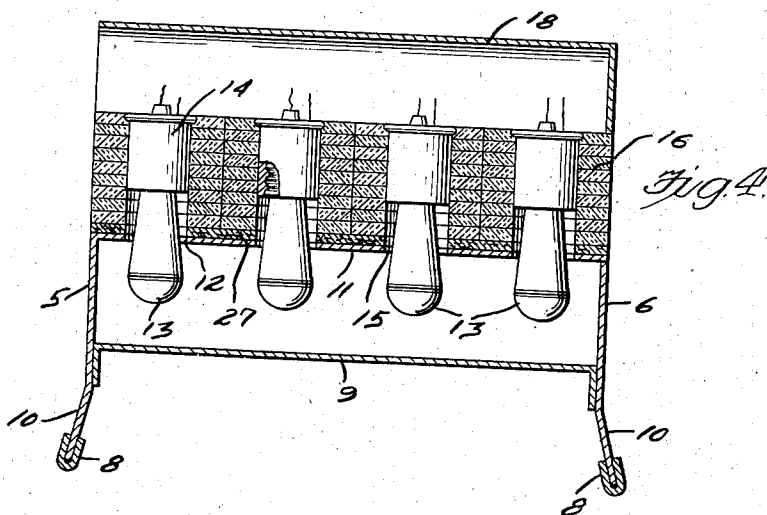
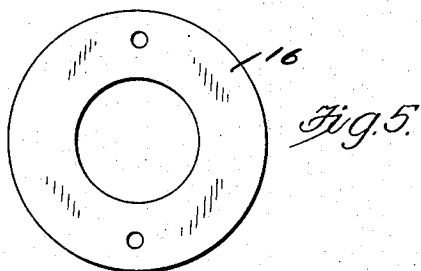
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2 Sheets-Sheet 2



Inventor
Arthur L. Maddox

By *Clarence A. O'Brien*

Attorney

UNITED STATES PATENT OFFICE

2,268,156

MECHANIC'S LIGHT

Arthur L. Maddox, Crown Point, Ind.

Application January 14, 1941, Serial No. 374,408

1 Claim. (Cl. 240—59)

My invention relates to improvements in portable lamps, and particularly to a light to be worn on the head of a mechanic for use in illuminating overhead work, and the primary object of the invention is to provide a simple, efficient, and comfortable arrangement of this character.

Other important objects and advantages of my invention will be apparent from a reading of the following description taken in connection with the appended drawings, wherein for purposes of illustration I have shown a preferred embodiment of my invention.

In the drawings:

Figure 1 is a general top plan view of the embodiment.

Figure 2 is a front elevational view.

Figure 3 is a longitudinal sectional view taken through Figure 1 along the line 3—3 and looking in the direction of the arrows.

Figure 4 is an enlarged transverse sectional view taken along the line 4—4 of Figure 1 and looking in the direction of the arrows.

Figure 5 is an enlarged side elevational view of one of the washers.

Figure 6 is a wiring diagram showing the lamp circuit.

Referring in detail to the drawings, the numerals 5 and 6 generally designate substantially rectangular side or end plates beveled at their lower front corners as indicated by the numeral 7 and provided along the back edge and bottom edge with a channel strip 8, of felt or other compressible material, the said strip being wrapped around the bottom and rear edge in the manner indicated in Figures 2 and 4 to protect the head and face of the wearer.

A horizontal web 9 extends between and is secured to intermediate portions of the side plates above laterally deflected portions 10, the upper edges of the said side plates being spaced and connected by another web 11 which is provided with holes 12 through which the light bulbs 13 project into the space between the webs 11 and 9. The bulbs 13 are in a pendent position and are inserted upwardly in sockets 14 which are supported in the bores 15 defined by superimposed insulating material washers 16, the columns of washers being located in side by side arrangement with bolts 16 and 17 arranged in front and rear through the columns to brace the columns in place on the web 11 and to securably pass through the lateral flanges on the inverted channel-shaped hood 18.

As indicated in Figure 3 the rear edge of the web 9 terminates at the point 19 whence another plate inclines rearwardly as indicated by the numeral 20. The insulated conductors 21 for the bulb sockets 14 pass from the sockets through one end of the hood 18 for connection with a suitable current outlet.

A swingable bail 22 is pivoted at its forward

ends as indicated by the numerals 23 to the outside of the rear corner of the side plates 5 and 6 so as to extend rearwardly from these plates in a generally horizontal position as illustrated in Figure 3. An overhead strap 24 of suitable flexible material has a loop 25 at its rear end which is slidable along the side portion of the bail as indicated in Figure 3, the forward end of the strap being secured at 26 to the upper rear end of the portion 20 of the web 11, a felt or other fabric sheet 27 being disposed between the strap and the top of the portion 20, the felt or the like extending forwardly and being secured along the top of the web 11 under the washers 16 for heat insulation purposes.

As indicated by the numeral 20 the underside of the inclined portion 20 on the web 9 is insulated and padded with layers of felt or the like so that this part of the device rests comfortably on the forehead portion of the cap of the mechanic, while the horizontal portion of the web 9 rests on the peak of the cap, with the overhead strap 24 lying over the top of the cap and the legs and bight portion of the bail 22 surrounding the back and the two sides of the cap on the head of the wearer.

If desirable the bail 22 instead of being of substantially rigid metal as indicated in Figure 3 may, as indicated in Figure 1 be in the form of a relatively flexible strap having adjusting means 29 therein. The upper surfaces of the web 9 and the portion 20 thereof may act as reflectors for concentrating and directing the light produced by the electric bulbs 13, the light from this source escaping through the opening 30 defined by the side pieces of the device and the webs 9 and 10, so that the light is directed straight forward in a standing position of the mechanic and straight upward in a lying down position of the mechanic.

Although I have shown and described herein preferred embodiments of my invention, it is to be definitely understood that I do not wish to limit the application of the invention thereto except as may be required by the scope of the subjoined claim.

Having described the invention, what is claimed as new is:

A lamp of the class described comprising a housing for the reception of the forehead portion of the head of a wearer, said housing being of inverted U-form to provide a top and side shields, said top having openings therein, tubular insulation sockets rising from the top and having lamps mounted therein for projecting through the openings into a position under the top, a horizontal partition spaced below the top and secured to said side shields, said partition merging at its rear edge with the top and means for attaching the housing to the head of a wearer.

ARTHUR L. MADDOX,