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2,444,540

PORTABLE LIGHT

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Fig. 1.

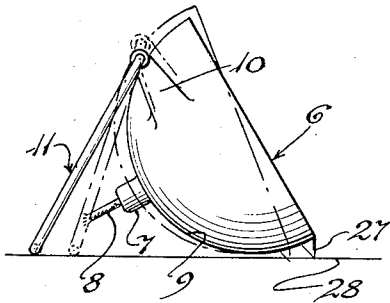


Fig. 2.

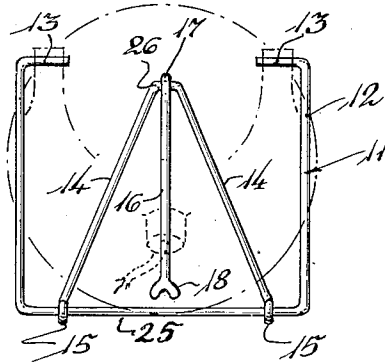


Fig. 3.

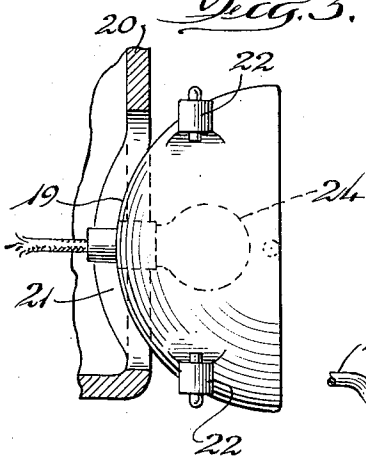


Fig. 4.

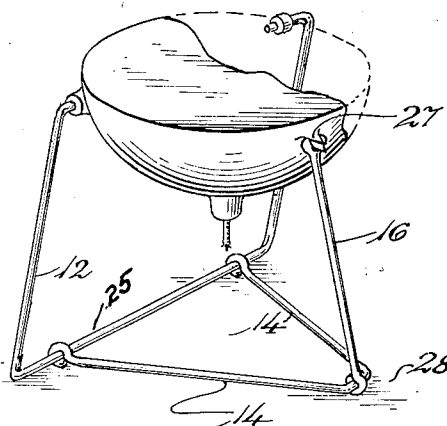
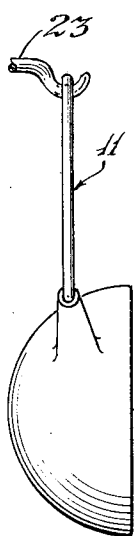


Fig. 5.



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UNITED STATES PATENT OFFICE

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PORTABLE LIGHT

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Application September 26, 1944, Serial No. 555,801

2 Claims. (Cl. 240—53)

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Our invention relates to a lamp structure provided with support means articulately secured thereto permitting hanging, as well as angular adjustment on a supporting body or horizontal positioning of the head lamp structure proper.

An important object of our invention is to provide a head lamp structure of the aforementioned character in which the adjustable positioning means can be compactly collapsed permitting the said lamp structure to be seated within a housing having a concave seating support therefore.

Another object of our invention is to provide a lamp having articulately secured thereto positioning means comprised of a substantially formed U-shaped structure to which is articulately secured a V-shaped structure and an I-shaped structure secured to the said V-shaped structure, affording various angular positions for setting up the said head lamp structure in all positions within a range of 90° from the vertical to the horizontal position, and as well permitting hanging of the said head lamp structure whenever that method of support should be desired.

Another object of our invention is the provision of a head lamp structure provided with adjustable positioning means which is practical in its construction, useful and efficient in its operation, and of such elemental structure as to warrant economical manufacture thereof in quantity production.

Other features, objects and advantages inherent in our invention will become apparent from an examination of the accompanying drawings, when looked upon in the light of the ensuing description, having special reference to the elemental structure designated by numerical symbols corresponding in all views, and in which:

Fig. 1 is a side view of our invention showing the varied angular adjustment in which it may be positioned on a supporting body.

Fig. 2 is a front view of the positioning means secured to the lamp structure when the said positioning means is in collapsed form.

Fig. 3 is a top view of our invention showing how the same may be compactly retained within seating means provided in a holder adapted to receive the same when in inoperative position.

Fig. 4 is a perspective view showing how the supporting means may be adjustably set up in order to maintain the head light structure in a horizontal position casting the beams or rays of light in an upward direction.

Fig. 5 indicates how the positioning means may be utilized for hanging purposes when it is de-

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sired to suspend the head light structure comprising our invention.

Referring to the various figures, 6 generally designates the lamp structure comprising our invention which is made up of a hemispherical casing and provided with a tubular extension 7 to which is secured the electrical wire connection 8 providing suitable terminals for contacting an electrical bulb 24 which may be interchangeably and removably positioned within the said tubular socket 7.

The hemispherical section 9 of the head light structure may be suitably polished to act as a reflecting surface and thus concentrate the rays of light emanating from the light source or bulb 24. The hemispherical section 9 is provided with two ears or lugs 10 having bearing portions 22 adapted to receive the positioning means generally designated 11, which is, preferably, made of a wire structure and is comprised of a U-shaped element 12 having right angularly extended therefrom short projections, or trunnions 13 which may be sprung into and articulately secured to the bearing portions 22 of the lugs 10 so as to articulate freely therein and serve as an angular positioning means for the lamp as indicated by the full and dotted lines of Figure 1.

To the U-shaped structure 12 we attach a V-shaped wire structure 14 which is adapted to be articulately secured by virtue of the loop portions 15 to the base 25 of the structure 12 in order to operate articulately thereon. To the crotch portion 26 of the V element 14 we secure a rod or lever structure 16 which has a loop portion 17 articulately secured to the crotch portion 26 of the V element 14.

The free end of the lever element 16 is provided with a semi-circular notch portion 18 adapted to receive the foot portion 27 of the head light structure 6. The lamp 6 or head light structure 6 is adapted to be located when in inoperative position within the socket 19 of the housing element 20, which is also provided with a slotted portion 21 in order to permit the wire element 8 to travel back and forth on a reel structure which may be positioned within the housing 20 as indicated in our prior patent No. 2,424,719, issued July 29, 1947, of which this application is a continuation-in-part.

In Figure 4, we indicate how the support means generally designated 11 may be arranged to support our head light 6 in a horizontal position casting the beam of light directly upward. By swinging the supports 14 and 16 to the rear of the support 12 as positioned in that view, the head light

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structure may be positioned also in a horizontal position by having its beams of light directed downward on the supporting body 28. Occasionally, such a setting may be required when for close examination of parts, especially, if repairs or such examination is to be made under artificial light.

In Figure 5, we indicate how our invention by virtue of its articulate supporting means 11 may be hung for purposes of throwing its beam of light at a certain height or level to aid in certain operations, especially if the arrangement is utilized in connection with an automobile or other similar machines. The collapsed positioning means 11 may serve the purpose of attachment for hanging on a hook 23 as indicated in Figure 5.

Thus it can be seen that we have provided a head lamp structure which has unusual and novel means for positioning the same angularly within a radius of substantially 90°, and permitting horizontal position for casting beams directly upward or in the inverse relation thereto, and that is to cast the beams of light downward on a supporting body.

Altho we have, herein, indicated and disclosed a preferred form of our invention, we reserve the right to all modifications and improvements coming within the scope and spirit of our invention, the same to be limited only by the appended claims.

Having thus described and revealed our invention what we claim as novel and desire to secure by Letters Patent, is:

1. In a portable light device, a lamp casing provided with two supporting lugs and a foot element oppositely disposed to the said supporting lugs, and angular positioning means comprising, a U-shaped wire element provided with trunnions articulately secured to the said supporting lugs, a V-shaped wire element of smaller dimension than the said U-shaped element and having its free ends articulately secured to the base of the said U-shaped wire element, and a rod supporting element of smaller dimension than the said V-

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shaped element articulately secured to the crotch portion of the said V-shaped wire element, the said rod supporting element being provided with a notched formation at its free end adapted to retain releasably the said foot element.

2. In a portable light device, a lamp casing provided with two supporting lugs and a foot element oppositely disposed to the said supporting lugs, and angular positioning means comprising, a U-shaped wire element provided with trunnions articulately secured to the said supporting lugs, a V-shaped wire element of smaller dimension than the said U-shaped element and having its free ends articulately secured to the base of the said U-shaped wire element, and a rod supporting element of smaller dimension than the said V-shaped element articulately secured to the crotch portion of the said V-shaped wire element, the said rod supporting element being provided with a notched formation at its free end adapted to retain releasably the said foot element, the said V-shaped wire element and the said rod supporting element being constructed and arranged to collapse within the plane of the said U-shaped wire element.

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