

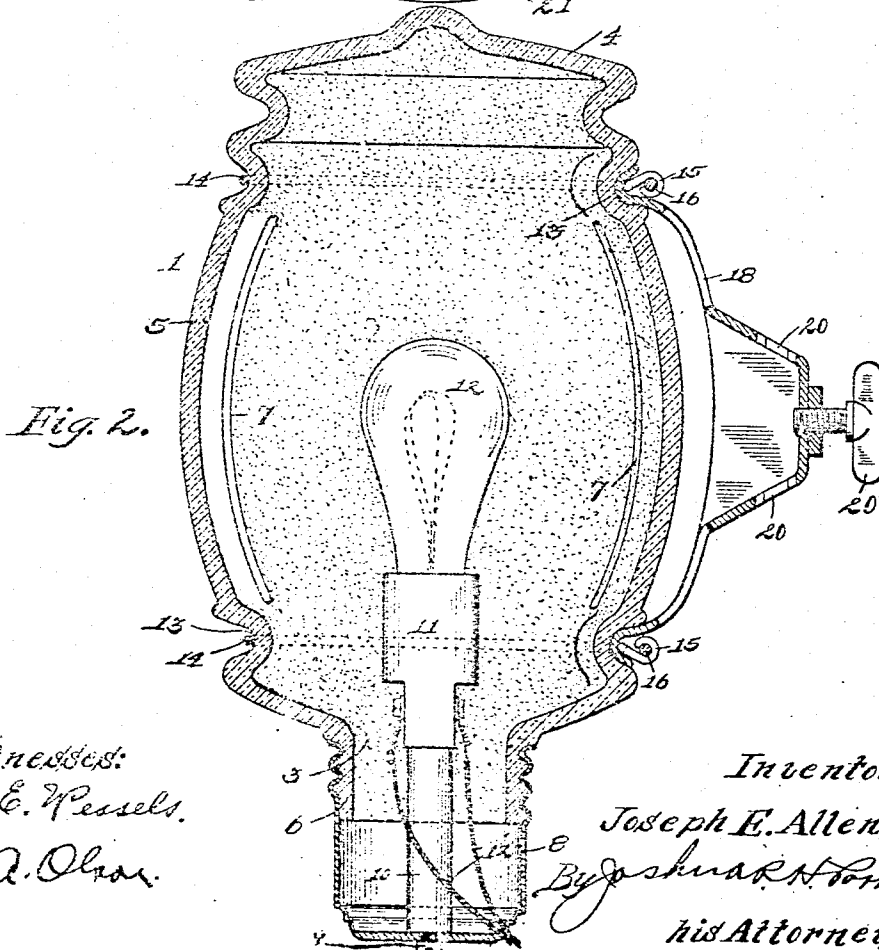
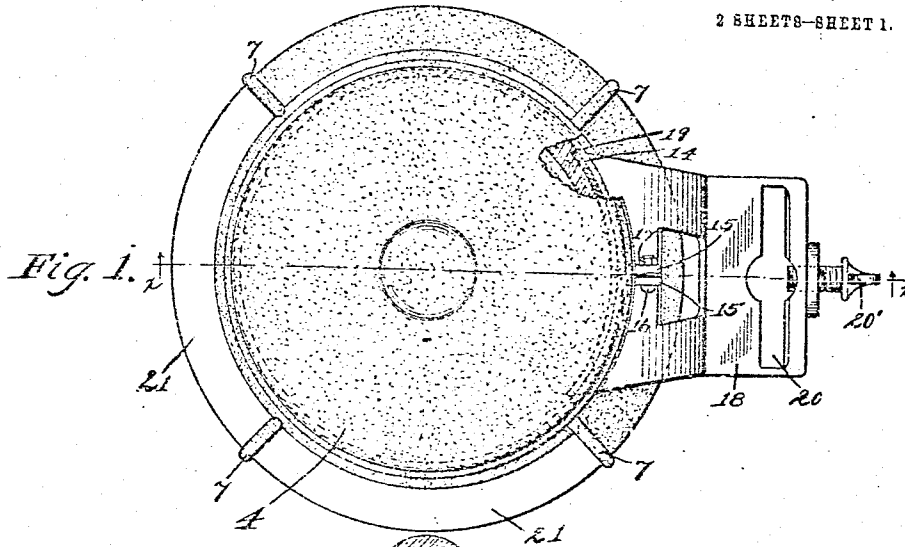
J. E. ALLEN.
LAMP.

APPLICATION FILED FEB. 14, 1910.

977,358.

Patented Nov. 29, 1910.

2 SHEETS—SHEET 1.



Witnesses:

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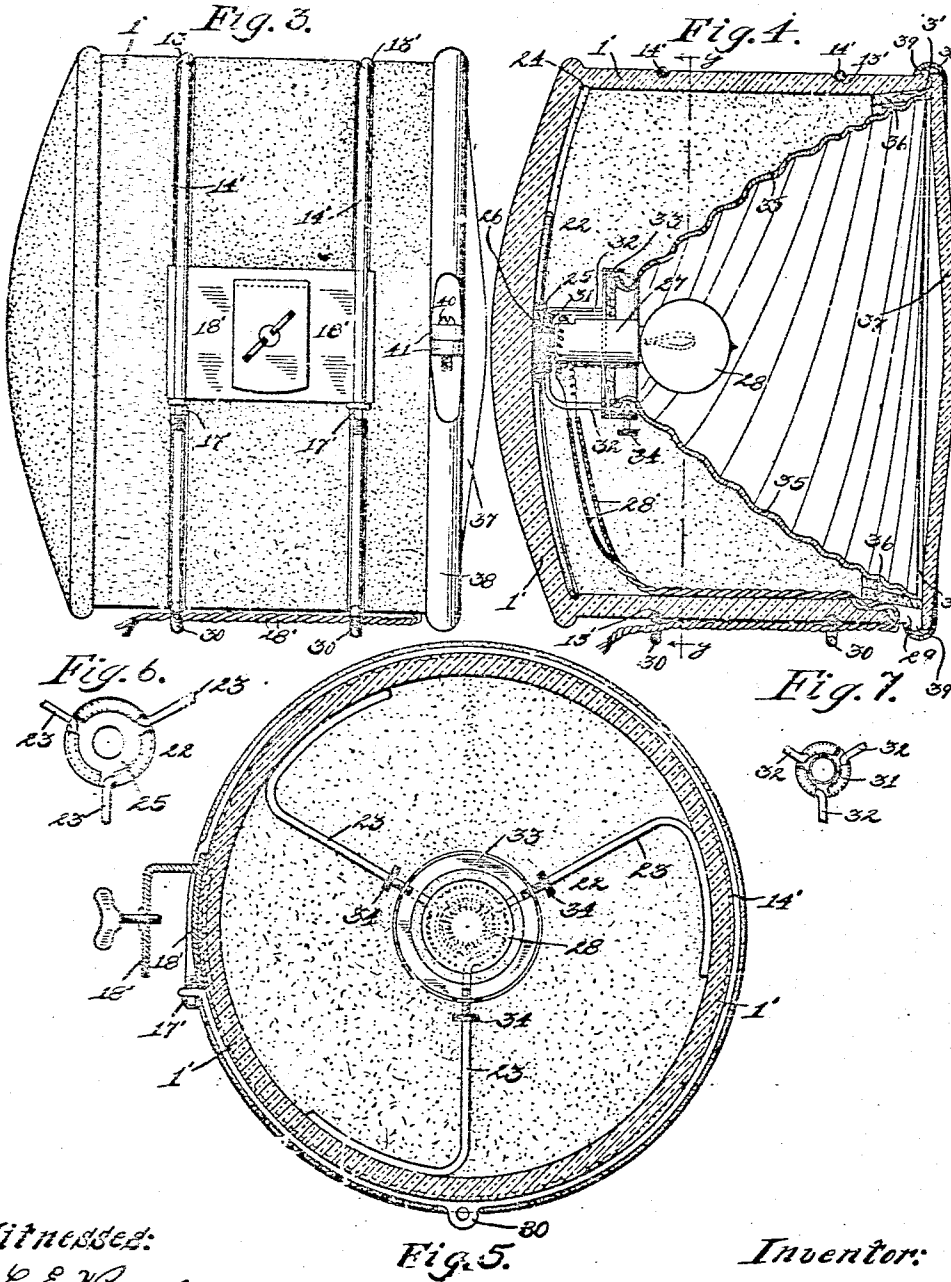
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2 SHEETS-SHEET 2.



Witnessed:
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UNITED STATES PATENT OFFICE.

JOSEPH E. ALLEN, OF CHICAGO, ILLINOIS.

LAMP.

977,358.

Specification of Letters Patent.

Patented Nov. 29, 1910.

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To all whom it may concern:

Be it known that I, JOSEPH E. ALLEN, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Lamps, of which the following is a specification.

My invention relates to lamps and more specifically to that class thereof designed for employment particularly in conjunction with automobiles or like vehicles.

The object of my invention is the provision of a lamp of the character mentioned which will be extremely simple and inexpensive of construction, one which will be of a construction and design such as to permit or facilitate ready and expeditious cleaning thereof, and one which will be of great efficiency in operation.

Other objects will appear hereinafter.

With these objects in view my invention consists in a lamp characterized as above mentioned and in certain details of construction and arrangement of parts all as will be hereinafter fully described and particularly pointed out in the appended claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a top plan view of a lamp embodying the preferred form of my invention. Fig. 2 is a central vertical section thereof taken on substantially line *x-x* of Fig. 1. Fig. 3 is a side elevation of a slightly modified form of my device. Fig. 4 is a central section thereof, Fig. 5 is a transverse section taken on substantially the line *y-y* of Fig. 4, and Figs. 6 and 7 are details of the modified form of my lamp.

Referring now to the drawings, particularly to Figs. 1 and 2 wherein is illustrated the preferred form of my device, 1 indicates the body of the lamp which is formed of a single piece of glass. Said body is, as seen, preferably substantially cylindrical in form the same being imperforate except at its lower end where it is provided with a circular opening 3. Said body comprises preferably a crown-like top portion 4, a bulging central portion 5 and a reduced depending exteriorly screw-threaded cylindrical portion 6, the latter communicating with the opening 3. Longitudinally extending integral ribs 7 are preferably formed upon the exterior surface of the portion 5 in imitation

of metallic protector bars in an ordinary train lamp. In this case, however, the ribs 7 add to the ornate appearance of the lamp and at the same time serve as a reinforcing means therefor.

Threaded upon the portion 6 is a preferably metallic cap or closure 8 in which is centrally secured, by means of a screw 9, a vertically disposed post 10. Carried at the upper extremity of said post is an electric light socket 11 upon which is threaded an ordinary incandescent electric light 12, the electrical conductors 12' of which pass through an opening provided at the lower end of said cap for the snug reception thereof.

Arranged at the upper and lower ends of the body 1, the same being seated in circumferentially extending grooves 13 formed in the exterior surface thereof are circumferentially extending reinforcing metallic wire members or bands 14. The respective ends of each of said members 14 are formed into aligning eyes 15 and 15'. Extending through the aligning eyes of each of the members 14 is a headed screw bolt 16. By means of a nut 17 threaded upon each of the bolts 16, the ends of each of the members 14 may evidently be drawn together in order to securely clamp or tighten said members around the lamp body. Having its respective upper and lower ends resting in the grooves 13, the same being secured in position therein by the members 14 which extend thereover, is a preferably metallic bracket 18. In order to prevent lateral movement of said bracket upon the body 1, the latter at the places of engagement of said bracket ends therewith is sunk or depressed forming shoulders 19 which abut the lateral extremities of said bracket ends. Vertically aligning openings 20 formed in the body of said bracket are adapted to receive the extremity of an ordinary supporting arm for the lamp. A thumb screw 20' threaded into said bracket affords a means for locking the same to any support upon which it may be arranged.

The entire exterior surface of the body 1, with the exception of the portions 21 of the body portion 5, is sand-blasted, ground, or otherwise made translucent or opaque, the portions 21 being left in a clear transparent condition for the passage of light there-through. This form of my lamp is especially designed for use as a tail light for

an automobile or other vehicle and it is with the end in view of especially adapting the same for that purpose that the light transmitting portions of the body are positioned therein as shown relative to the supporting bracket.

In Figs. from 3 to 7 inclusive wherein is illustrated a modified form I have shown a lamp especially designed for use as a vehicle head light. Because of the different purpose for which this form is designed from that of the preferred form, the construction thereof must necessarily be slightly changed. In this form the body 1' is formed also of a single piece of glass, the same being substantially cylindrical in form and provided with a single opening 3' at its front end. Encircling said body, the same being seated in circumferentially extending grooves 13' formed in the exterior surface thereof are reinforcing wire members 14' adapted, by means of nuts 17' threaded upon corresponding extremities thereof, to be drawn tightly around the former. A bracket 18' provided upon said body is secured in position by members 14' in a manner similar to that of the bracket 18 upon the body 1 before described. Detachably arranged within the body 1' at the rearward end thereof is a web 22 the extremities of radiating spring arms 23 of which forcibly engage an internal circumferential groove 24 formed at the rearward extremity of said body. Said groove, it is evident, prevents longitudinal movement of said arms. Having its rearward extremity extending through the perforated disk portion 25 of said web, the same being secured thereto by means of a nut 26 threaded thereon, is a forwardly projecting electric light socket 27. Supported in the usual manner upon the forward extremity of said socket is an incandescent electric light 28. The electrical conductors 28' of the latter project forwardly and downwardly therefrom and pass through a recess 29 provided in the mouth edge of the body 1', thence rearwardly preferably through eyes 30 formed in the members 14'. Supported upon the rearward end of the socket 27 is a disk 31. Secured to and forwardly projecting from said disk is a plurality of arms 32 supporting at their forward extremities an annular member 33 angular in cross section. Having its rearward smaller end secured by set screws 34 in the member 33, is a suitable flaring reflector 35 which, as shown, is preferably of the corrugated type. The outer end of said reflector rests in a cushion 36 of asbestos or other suitable material interposed between the same and the inner surface of the body 1'. Arranged over the mouth or opening 3' of the body 1' is a lens 37 secured in position thereover by means of a split ring 38 which engages the periphery thereof and

an external bead 39 formed at the mouth edge of said body. A screw 40 engaging aligning ears 41 provided at the extremities of said ring serves as a means for clamping said ring in operative position. In this form the entire outer surface of the body 1' will be sand-blasted or by other means formed opaque or translucent, the light being transmitted from the interior thereof through the lens 37.

In either form it will be observed that the body of the lamp is formed of a single piece of glass which is so connected to the other lamp parts that, upon breakage or other disabling of said body, the appendants may be readily and easily removed therefrom and arranged upon another new or whole body. The lamp is, as seen, of such design and construction as to permit of ready cleaning. Further, the interior thereof is practically sealed thereby shutting out all dust or other foreign particles and consequently avoiding the necessity of dusting or cleaning the interior thereof. Because of the one-piece construction of the body of the lamp, the same may be manufactured at an exceedingly low cost.

While I have shown what I deem to be the preferable forms of my lamp I do not wish to be limited thereto as there might be various changes made in the details of construction and the arrangement of parts described without departing from the spirit of the invention comprehended within the scope of the appended claims.

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

1. A lamp comprising a body formed of a single piece of glass having but one opening therein, supporting means directly secured to said body, and electric illuminating means secured in said opening and entirely supported by said body, substantially as described.

2. A lamp comprising a hollow body formed of a single piece of glass, said body being provided with but a single opening, illuminating means arranged within said body, detachably mounted reinforcing metallic bands encircling said body, and a laterally disposed supporting bracket arranged upon the outer surface of said body and secured thereto by said bands, substantially as described.

3. A lamp comprising a hollow body formed of a single piece of glass, one side of said body being open, a detachable closure for said opening, an electric light arranged within said body, adjustable reinforcing metallic bands encircling said body, grooves in the outer surface of said body for the reception of said bands, and supporting means for said body, substantially as described.

4. A lamp comprising a hollow substan-

tially cylindrical body formed of a single piece of glass, a portion of the outer surface of said body being sand-blasted, said body being imperforate except for an opening in its under side, a detachable closure for said opening, an electric light arranged within said body and supported upon said closure, reinforcing metallic bands encircling said body, and a bracket carried upon said body

and secured thereto by said bands, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH E. ALLEN.

Witnesses:

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