

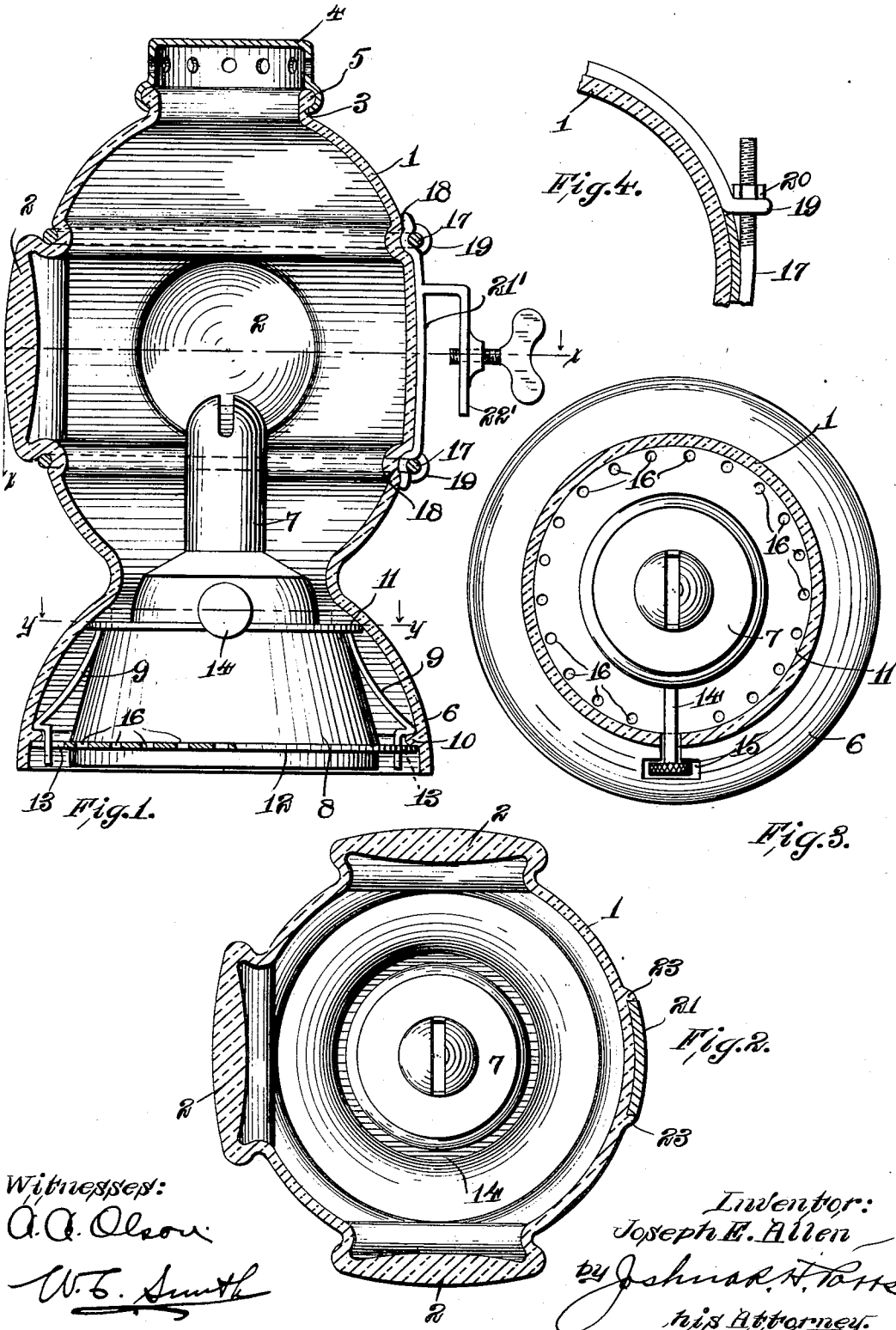
J. E. ALLEN.
LAMP.

APPLICATION FILED SEPT. 2, 1909.

968,632.

Patented Aug. 30, 1910.

2 SHEETS—SHEET 1.



Witnesses:
A. A. Olson
W. E. Smith

Inventor:
Joseph E. Allen
by Joshua H. Rott
his Attorney.

J. E. ALLEN.

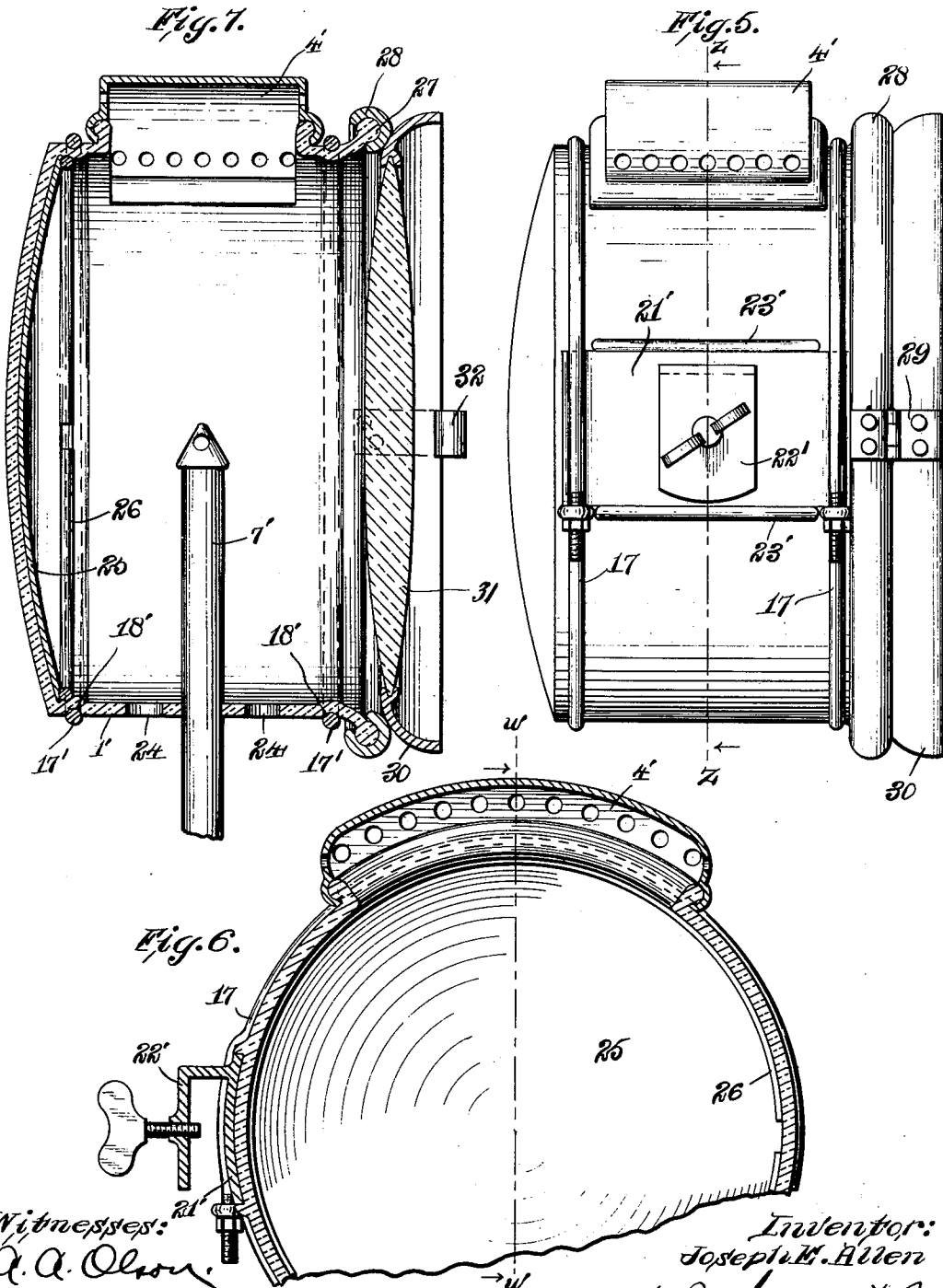
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UNITED STATES PATENT OFFICE.

JOSEPH E. ALLEN, OF CHICAGO, ILLINOIS.

LAMP.

968,632.

Specification of Letters Patent. Patented Aug. 30, 1910.

Application filed September 2, 1909. Serial No. 515,818.

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 use upon an automobile.

The object of my invention is the provision of a lamp of the character mentioned which will be efficient, strong, and durable, and which will be extremely simple of construction, hence of low cost to manufacture: a further object being to provide a lamp which, because of its simplicity, may be readily cleaned and repaired.

Other objects will appear hereinafter.

With these objects in view my invention consists generally in a lamp characterized as above mentioned, the body of which may be formed of a single piece of glass effectually reinforced at different places by encircling metallic rings.

My invention further consists 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 central vertical section of my lamp in its preferred form, Fig. 2 is a transverse section taken on line $x-x$ of Fig. 1, Fig. 3 is a transverse section taken on line $y-y$ of Fig. 1, Fig. 4 is a sectional detail illustrating the detachable connection between the reinforcing rings and the lamp body, Fig. 5 is a side elevation of a slightly modified form of my device, Fig. 6 is a central section thereof taken on line $z-z$ of Fig. 5, and Fig. 7 is a section taken on line $w-w$ of Fig. 6.

Referring now to the drawings, especially to Figs. from 1 to 4 inclusive wherein is shown the preferred form of my lamp, 1 designates the body of the lamp which, as clearly illustrated, is formed of a single piece of glass, the lenses or bull's eyes 2, which are provided upon three sides of the body, being formed integral with the latter. The top 3 of the body 1 is open, the same being provided with a perforated metallic

cap 4, the same being secured thereon by engagement with a bead 5 formed upon the former, the perforations provided in said cap serving in the capacity of draft openings. The bottom 6 of the body is also open, the same as shown, being flared preferably semi-spherically formed to snugly receive a suitable oil burner 7. Provided at opposite sides of the reservoir 8 of the latter, the upper extremities thereof being suitably secured close to the upper edge of the lateral surface of the former, are resilient arms 9 the lower end portions of which are bent to engage a circumferential inwardly extending flange or bead 10 provided close to the lower edge of the body portion 6.

Outwardly extending circumferential flanges 11 and 12 provided at the upper and lower extremities respectively of the reservoir 8 engage the inner surface of the body portion 6 and the latter thereof also the under side of the flange 10, when said locking arms 9 are in locking engagement with the latter, the same thereby limiting upward movement of the burner in the body 1 and facilitating a rigid connection between said burner and body. As shown, the arms 9 are so formed that by simply inserting the burner 7 sufficiently far into the lower end of the body, the same will, by their own resiliency, rock outwardly into locking engagement with the flange 10, as before stated.

In order to effect ready and expeditious attachment of the burner from the body, arms 9 are formed to depend through slots 13 provided in the periphery of the flange 12 for the reception thereof, to substantially the lower extremity of the burner or to such an extent as to be readily accessible through the lower opening of the body 1. With such provision detachment of the burner may be effected by simply sufficiently inwardly rocking the lower ends of the arms 9, such rocking thereof being evidently readily effected by means of the fingers.

In order to accommodate the wick operating stem 14 of the burner in the insertion or removal of the latter, a slot 15 of corresponding shape, as clearly shown in Fig. 3, is formed in the body 1 for the reception thereof. Perforations 16 provided in each of the flanges 11 and 12 serve in the capacity of draft openings.

Encircling the body 1 at substantially the center thereof, preferably just above and

just below the lenses 2, are two reinforcing detachable or adjustable wire rings 17, the former being, as shown, preferably provided with two circumferential grooves 18 for the reception of said rings. In order to permit of the adjustment of said rings upon said body or of the removal thereof therefrom, one of the ends of each of the former is provided with an eye 19 adapted to receive the opposite end thereof, a nut 20 threaded upon the last named end of each, adapted to engage the eye 19 thereof, being evidently adapted to effect the adjustment desired.

Having the upper and lower end portions of its base plate 21 resting beneath the rings 17, the latter acting as a securing means therefor to the body 1, said ends being preferably formed so as to be snugly received in the grooves 18, as shown in Fig. 1, is a suitable bracket 22 whereby the lamp may be attached to a suitable support. To prevent lateral movement of the bracket 22 upon the body 1, the outer surface of the latter is preferably formed at the place of connection of said bracket thereto, with longitudinally extending beads or ribs 23 so spaced and positioned that the longitudinal edges of the plate 21, when the latter is properly arranged upon said body, will rest in engagement therewith, such provision evidently fulfilling the desired purpose.

In Figs. from 5 to 7 inclusive I have shown a slightly modified form of my device, the lamp therein shown being especially designed to serve in the capacity of an automobile head light, whereas that already described as my preferred form, is designed to serve as an automobile tail light. In the modified form, 1 indicates the body of the lamp which is substantially cylindrical in form, open at its upper end, as in my preferred form, the same being provided with a perforated metallic cap 4' serving in the same capacity as the cap 4 and secured to the lamp body in the same manner as the latter. Reinforcing metallic rings 17' encircling the body 1 are also provided, the same being seated in circumferential grooves 18' formed in the outer surface of said body, said rings being secured in exactly the same manner as the rings 17 provided in my preferred form. The supporting bracket 22' of this form is substantially the same in construction as the bracket 22, the lateral edges of the base portion 21' thereof being secured under the rings 17 in the same manner as the upper and lower edges of the corresponding portion of the bracket 22. Beads or ribs 23' formed upon the outer surface of the body 1' prevents vertical movement of the bracket 22' upon the latter. Thus far, it will be observed, the two forms of lamps are substantially similar in construction. However, the cause

of the different purposes for which the same are designed, differentiate in a few minor details, which will be brought out in the following, and are found to be expedient. In view of the lamp being used as a head light a gas burner 7' of suitable design is incorporated instead of the oil burner 7.

24 indicate draft openings provided in the bottom of the body. However, such openings need not necessarily be incorporated since openings adapted to serve in the same capacity might, if desired, be provided in the closure traversing the open front side of the body. A suitable reflector 25 is provided rearward of the burner 7', the same being removably held in a position resting against the rearward wall of the body, by a split spring ring 26. The front side of the body 1, as stated, is open, the mouth edge thereof being preferably slightly flared and formed with a bead 27 embracing which is a metallic protecting edging 28. Secured by a hinge 29 to the edging 28 is an annular metallic lens holder 30 in which is mounted a suitable lens 31. A spring hooked arm 32 secured to and forwardly projecting from the edging 28 is adapted to engage the outer edge of the holder 30 to lock the same in closing position.

In either form of my lamp the outer surface of the glass body thereof will be sand blasted or ground to form the same translucent, the lenses alone being left clear and transparent.

With the provision of a lamp of the construction shown and described, one of neat appearance, effectual in use, one which may be readily cleaned, and one which is strong, durable and economical in construction will be provided. The metallic trimmings of the glass body 1, it will be observed, are so attached to the latter, that in the event of the body being broken, the former may be removed therefrom and readily arranged upon a new body.

While I have shown what I deem to be the preferable forms of my construction, 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 without departing from the spirit of the invention comprehended within the scope of the appended claims. And although I have designed my lamp with special reference to its use upon automobiles I may incorporate my ideas in lamps of any other design to which they are applicable.

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, annular reinforcing means encircling said body, and means arranged upon said body and secured thereto

by said reinforcing means for securing said body to a suitable support, substantially as described.

2. A lamp comprising a body formed of a single piece of glass, said body being open at its upper extremity, a perforated cap arranged upon said upper extremity of said body, annular reinforcing means encircling said body, and illuminating means provided within said body, substantially as described.

3. A lamp comprising a body formed of a single piece of glass, said body being open at its upper extremity, a perforated cap arranged upon said extremity of said body, a burner arranged within said body, adjustable reinforcing rings encircling said body, the same resting in circumferential grooves formed in the outer surface of said body, and a supporting bracket provided upon said body and secured thereto by said reinforcing rings, substantially as described.

4. A lamp comprising a substantially cylindrical body formed of a single piece of glass, said body being open at its upper end, a cap provided with draft openings arranged upon said end and said body, circumferential grooves substantially centrally formed in the outer surface of said body, adjustable reinforcing rings encircling said body and seating in said grooves, and a supporting bracket arranged upon said body and secured thereto by said reinforcing rings, substantially as described.

5. A lamp comprising a substantially cylindrical body formed of a single piece of glass, said body being open at its upper and lower ends, a cap provided with draft

openings arranged upon said upper end of said body, a burner detachably supported in the lower end of said body, and reinforcing adjustable rings encircling said body, substantially as described.

6. A lamp comprising a substantially cylindrical body formed of a single piece of glass, said body being open at its upper and lower ends, a perforated cap arranged upon and closing the upper end of said body, an inwardly extending flange in said body close to the lower end thereof, a burner arranged in the lower end of said body, means for removably supporting the same therein, said means comprising arms arranged upon said burner adapted normally to engage said inwardly extending flange, substantially as described.

7. A lamp comprising a substantially cylindrical body formed of a single piece of glass, reinforcing rings encircling said body, a bracket arranged upon said body and secured thereto by said rings, said rings engaging the lateral edges of the base portion thereof and ribs formed in said body adjacent the upper and lower edges of the base portion of the bracket to prevent vertical movement of said bracket on said body, 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:

HELEN F. LILLIS,
JOSHUA R. H. POTTS.