

1,044,775.

Patented Nov. 19, 1912.
2 SHEETS—SHEET 1.

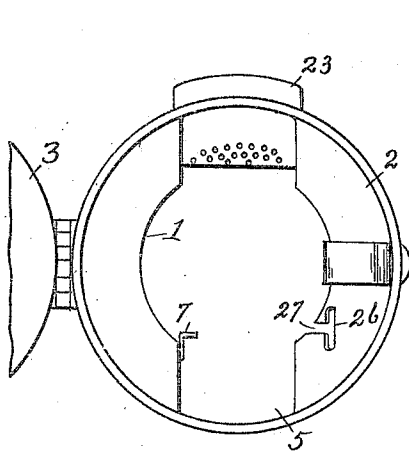


Fig. 2.

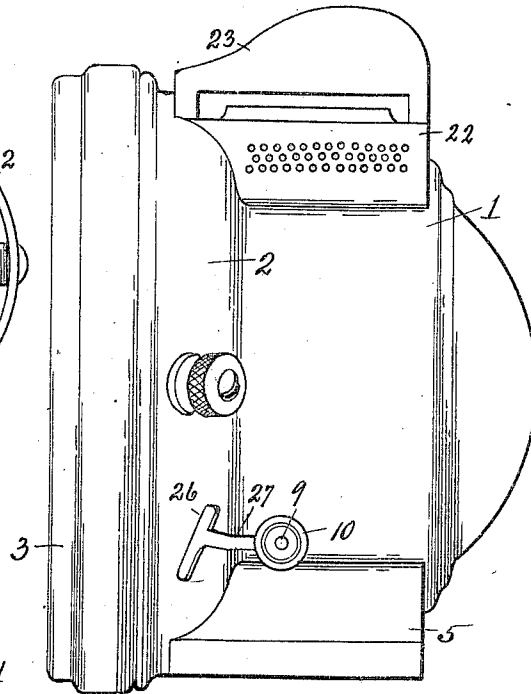


Fig. 1.

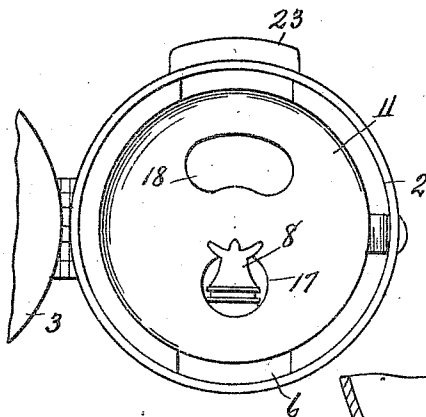


Fig. 3.

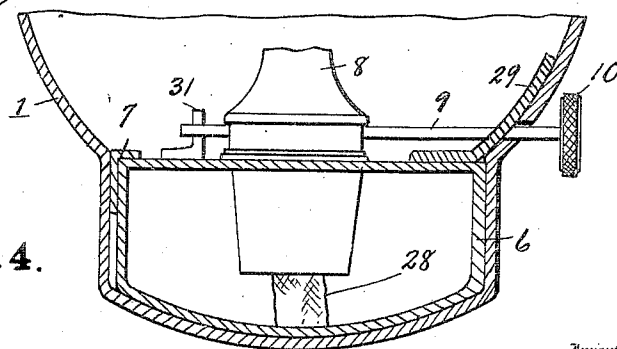


Fig. 4.

Witnesses

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OIL LAMP.

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2 SHEETS—SHEET 2.

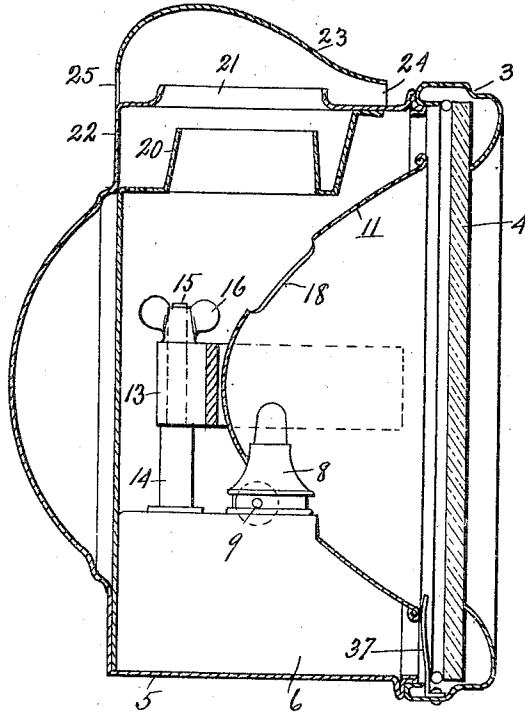


Fig. 5.

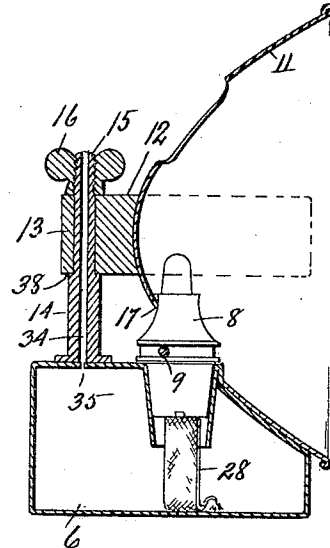


Fig. 6.

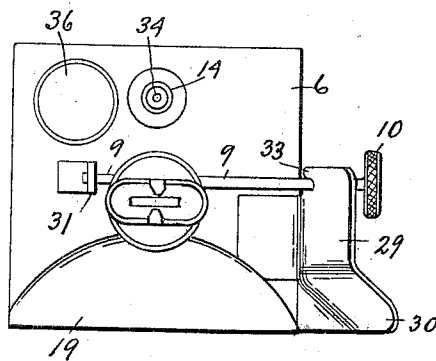


Fig. 7.

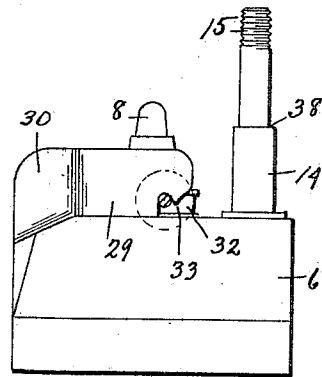


Fig. 8.

Witnesses

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UNITED STATES PATENT OFFICE.

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OIL-LAMP.

1,044,775.

Specification of Letters Patent.

Patented Nov. 19, 1912.

Application filed August 21, 1911. Serial No. 645,129.

To all whom it may concern:

Be it known that I, CHARLES E. GODLEY, a citizen of the United States, residing at Detroit, in the county of Wayne, State of Michigan, have invented certain new and useful Improvements in Oil-Lamps; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

This invention relates to oil lamps especially designed for automobile use and consists in the construction and arrangement of parts hereinafter more fully set forth and pointed out in the claims.

One object of the invention is to provide a lamp of the character described, wherein provision is made for disposing the oil font within the body of the lamp in a manner to render the structure simple and compact.

A further object is to provide for mounting the reflector on the oil font and so disposing said reflector as to cause the flame of the burner to become focused therein.

A further object is to provide for a vent for the oil font in a manner to prevent the oil splashing therefrom.

A further object is to provide means when the door of the lamp is closed for holding the oil font and lamp under tension to prevent the rattling thereof.

A further object is to provide for inserting the font and burner into the lamp and withdrawing them therefrom through the door, provision being made for allowing the shaft of the wick raiser to project through the side of the lamp, a further provision being made for closing the opening in the lamp body through which said shaft projects to prevent the passage of air currents which might enter said opening and interfere with the burning of the lamp.

A further object is to provide for locking the shaft of the ratchet wheel which actuates the wick of the lamp so as to obviate the accidental turning thereof.

The above objects are attained by the structure illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of a lamp embodying my invention. Fig. 2 is a front

elevation with the door open, said door being partially broken away, and the lamp font, burner, and reflector being removed. Fig. 3 is a similar view showing the lamp font, burner, and reflector in position in the lamp. Fig. 4 is an enlarged fragmentary view in section through the lower portion of the lamp body and lower integral panel in which the lamp font is seated, said font appearing in transverse section showing the shield carried on said font closing the slot in the lamp body through which the shaft of the wick raiser passes. Fig. 5 is a central vertical section through the lamp. Fig. 6 is a sectional view through the reflector and lamp font, the burner appearing in elevation. Fig. 7 is a plan view of the lamp font. Fig. 8 is a side elevation of said font.

Referring to the characters of reference, 1 designates the body or shell of the lamp, which is preferably cylindrical in form, and provided with a flaring or parabolic front portion 2. To the front of the flaring portion of the lamp is hinged in any suitable manner the door 3, carrying the usual lens or glass 4. Formed integral with the body of the lamp on the lower side thereof is a depending housing 5 of such size and shape as to receive the oil font 6, which slides snugly therein from the front of the lamp, being confined in place by an L-shaped strip 7 (Fig. 4) which is secured to the wall of the font receptacle and engages the top of said font. Seated in the font is a suitable burner 8, having a shaft 9 for actuating the wick raiser, said shaft carrying on its outer end a thumb wheel 10.

To provide for reflecting the rays of light and projecting them forwardly at the requisite angle through the glass or lens 4 a reflector 11 is employed of suitable material having a polished inner surface. Said reflector is parabolic in shape and is detachably secured to the lamp font by means of a metal strap 12, the terminals of which are secured to the outer wall of the reflector, and which is provided with a central eye 13 through which passes a post 14 mounted on the top of said font. The upper end of the post is threaded as at 15 to receive the thumb nut 16 which screws thereon against the eye of the strap 12 to securely fasten the reflector to the font. In order to enable the burner to extend into the reflector an opening 17 is formed through the wall of the reflector

through which said burner passes. To provide for the escape of the gases of combustion a second opening 18 is formed through the wall of the reflector above said burner.

5 It will be noted that the parts are so positioned as to cause the flame from the burner to become properly focused in the reflector. In order that the reflector may lie in a proper position upon the lamp font the top and front side of said font are provided with a curved recess 19 shaped to conform to the contour of the reflector in which the reflector lies, and which assists in maintaining the reflector in position and enables it to be so disposed as to properly focus the lamp flame therein. In the upper portion of the lamp body is a vertical flue 20 which receives the combustion gases that pass through the opening 18 in the reflector, and from which said gases pass through an opening 21 in the top of the hood 22. Fitted over the hood is a cap 23 into which the combustion vapors discharge, said cap having at its front end a draft opening 24 and at its rear end a discharge opening 25 through which air may circulate to assist in carrying away the heated gases.

In order to enable the wick of the lamp to be actuated from the outside of the lamp body the shaft 9, which actuates the wick raiser, must be sufficiently long to extend through the lamp shell. In order therefore to enable the lamp font to be inserted into and withdrawn from said shell for the purpose of re-filling, cleansing, and adjusting the reflector the wall or shell of the body is provided through the flaring portion 2 thereof with an inclined slot 26, through which the thumb wheel 10 on the wick shaft 9 may pass, as clearly shown in Fig. 1. Leading from the slot 26 is a horizontal slot 27 formed in the wall of the body or shell, through which the shaft 9 passes as the lamp font is introduced into and withdrawn from the lamp. The flaring portion 2 of the lamp body being of greater diameter than the main portion thereof allows the thumb wheel to project sufficiently from the outer wall of the body 1, when the lamp font is in position therein, to enable the shaft 9 to be freely turned through the medium of said wheel to adjust the lamp wick 28 as may be desired.

To exclude air from the slotted openings 26 and 27 when the lamp font is in position within the lamp said font is provided with an angular curved plate 29, which serves as a shield to close the opening 27, said plate having a projecting wing 30 adapted to extend over the opening 26 formed in the flaring portion of the lamp body. By this arrangement when the font is in position in the lamp the slotted openings 26 and 27 are so covered as to prevent the entrance of air into the lamp body at that point in such

quantity as to interfere with the burning of the lamp.

To so position the burner as to present the flat side of the flame thereof to the vertex of the reflector, there is mounted upon the top of the font a stud 31 having a notch therein which receives the inner end of the wick actuating shaft 9. The outer end of said shaft is adapted to enter an open slot 32 (see Fig. 8) in the inner end of the shield 29 and lie behind the depending shoulder 33 under which said shaft may be sprung to place it in position in said slot. This arrangement not only correctly positions the burner but also places such a tension upon said shaft as to prevent it being accidentally turned.

To provide a suitable vent for the oil font a vertical opening 34 is made through the post 14, which is contracted at its point of passage through the top of the font, as shown at 35 in Fig. 6, to prevent the oil splashing into said vent opening or passage in such quantity as to flow from the top thereof. To enable the font to be readily filled it is provided with a removable filler cap 36, shown in Fig. 7.

In order to prevent the font and reflector rattling, and at the same time hold them firmly in position in the shell or body of the lamp, a spring tongue 37 (see Fig. 5) is mounted on the door 3 which when the door is closed is adapted to engage the margin of the reflector with such force as to hold the reflector and font firmly in place under spring tension, said spring serving to throw the door partially open when the catch which holds it is released.

It will now be apparent that by the arrangement herein shown and described the font, the burner, and the reflector are compactly and detachably combined in such manner as to properly focus the burner within the reflector and render both the reflector and burner removable from the lamp with the font, an arrangement which prevents the reflector getting out of adjustment when properly set, and which greatly facilitates the cleaning of the lamp and minimizes the labor incident to refilling the font. It will be noted that the post 14 has a shoulder 38 upon which the eye 13 of the strap 12 attached to the reflector rests, thereby enabling the reflector to be firmly fastened when properly adjusted by means of the thumb nut 16.

Having thus fully set forth my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A lamp, comprising a body having a flaring front portion, a lamp font receptacle in the lower portion of the body extending inwardly from said flaring portion, a lamp font insertible into and removable from said receptacle, a burner in said font having

a wick shaft, the flaring portion of the front and the wall of the lamp body having an opening through which the wick shaft and thumb wheel may pass as the font is inserted into and withdrawn from the lamp body, and an angular curved shield mounted on said font and movable therewith, adapted to close the opening in the body of the lamp and in the front flaring portion when the font is in position in the lamp body.

2. A lamp comprising a cylindrical body having a flaring front portion and provided with an oil font receptacle struck from the material thereof on the under side of said body and extending through said flaring front portion, an oil font removably seated in said receptacle, a reflector wholly mounted upon and removable with the oil font, and a hinged door mounted on said flaring front portion and serving to close the front opening of the lamp and the opening of the font receptacle, the font and reflector thereon being removable through the door opening.

3. A lamp comprising a body having a door opening at the front and an oil font receptacle extending inwardly from and in the plane of said door opening, an oil font removably seated in said receptacle, a reflector mounted upon said font, a door for closing the door opening, and a spring mounted on the door to engage the reflector for yieldingly holding the font and reflector in place when the door is closed.

4. A lamp comprising a body, an oil font receptacle therein, an oil font in said recep-

tacle, a burner in said font, a reflector mounted wholly on said font having an aperture in its wall to receive said burner which extends into said reflector, and means for detachably securing the reflector to the font.

5. A lamp comprising a body having a font receptacle therein, an oil font in said receptacle having a curved seat in the front portion thereof, a parabolic reflector mounted on the font with its curved wall lying in said seat, a burner in the font projecting into said reflector, and means for detachably securing the reflector to the font.

6. A lamp comprising a body, an oil font seated therein, a post on said oil font, a reflector, an apertured fitting attached to said reflector adapted to fit over said post to secure the reflector to the font, and means for detachably securing said fitting to said post.

7. A lamp comprising a body, a lamp font insertible into and removable from said body in a horizontal plane, a burner in said font having a wick shaft, the wall of the body having an opening therein through which said shaft is adapted to pass as the font is inserted into and withdrawn from the body, and a shield upon said font adapted to close said opening when the font is in position in the body of the lamp.

In testimony whereof, I sign this specification in the presence of two witnesses.

CHARLES E. GODLEY.

Witnesses:

MARIE BROESAMLE,
E. S. WHEELER.