Sept. 4, 1928.

1,683,170

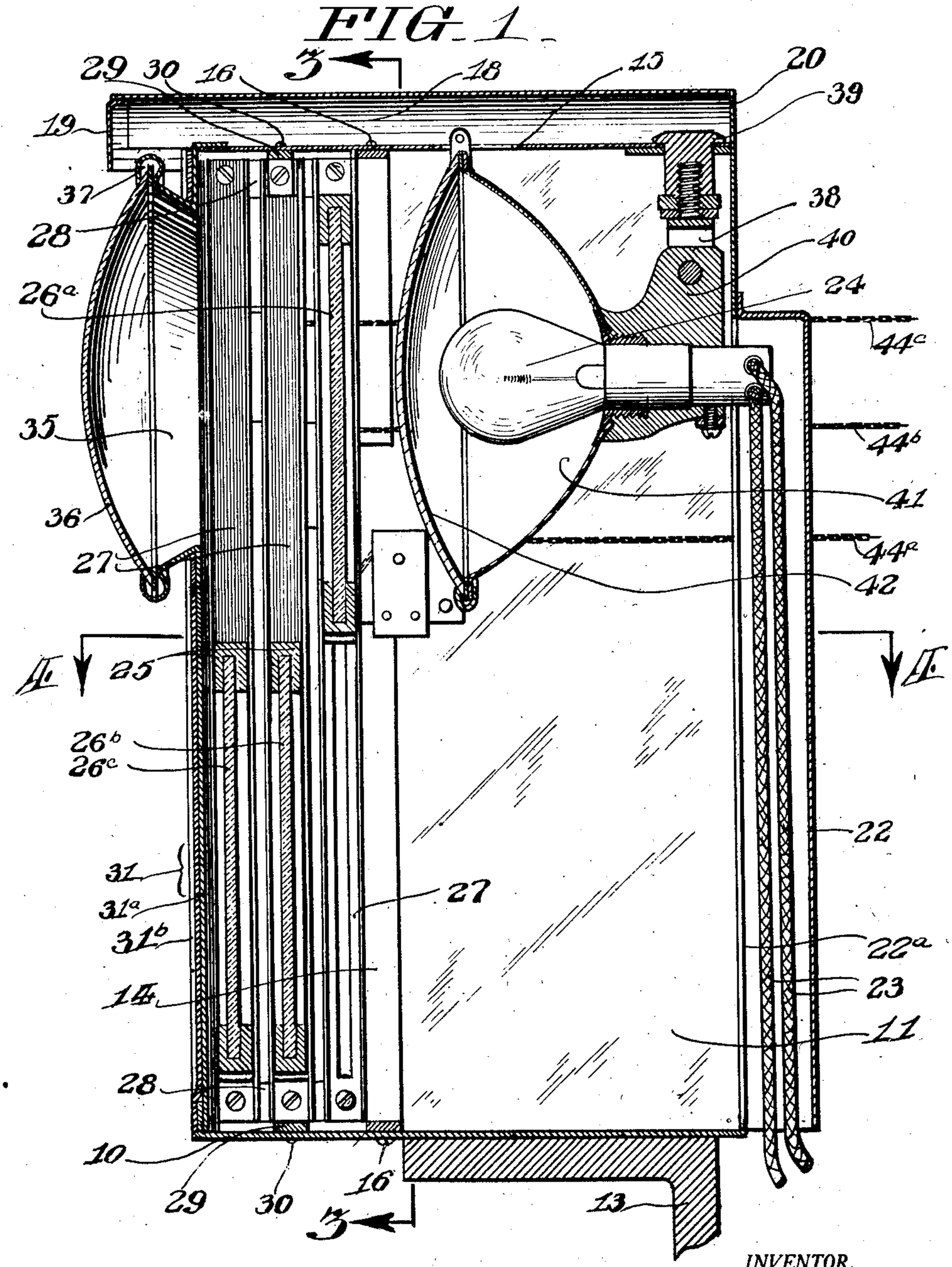
D. DI CARLO

LAMP

Filed May 25, 1927

4 Sheets-Sheet 1

FIG. 1.



WITNESSES

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Sept. 4, 1928. 1,683,170

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LAMP

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FIG. 3.

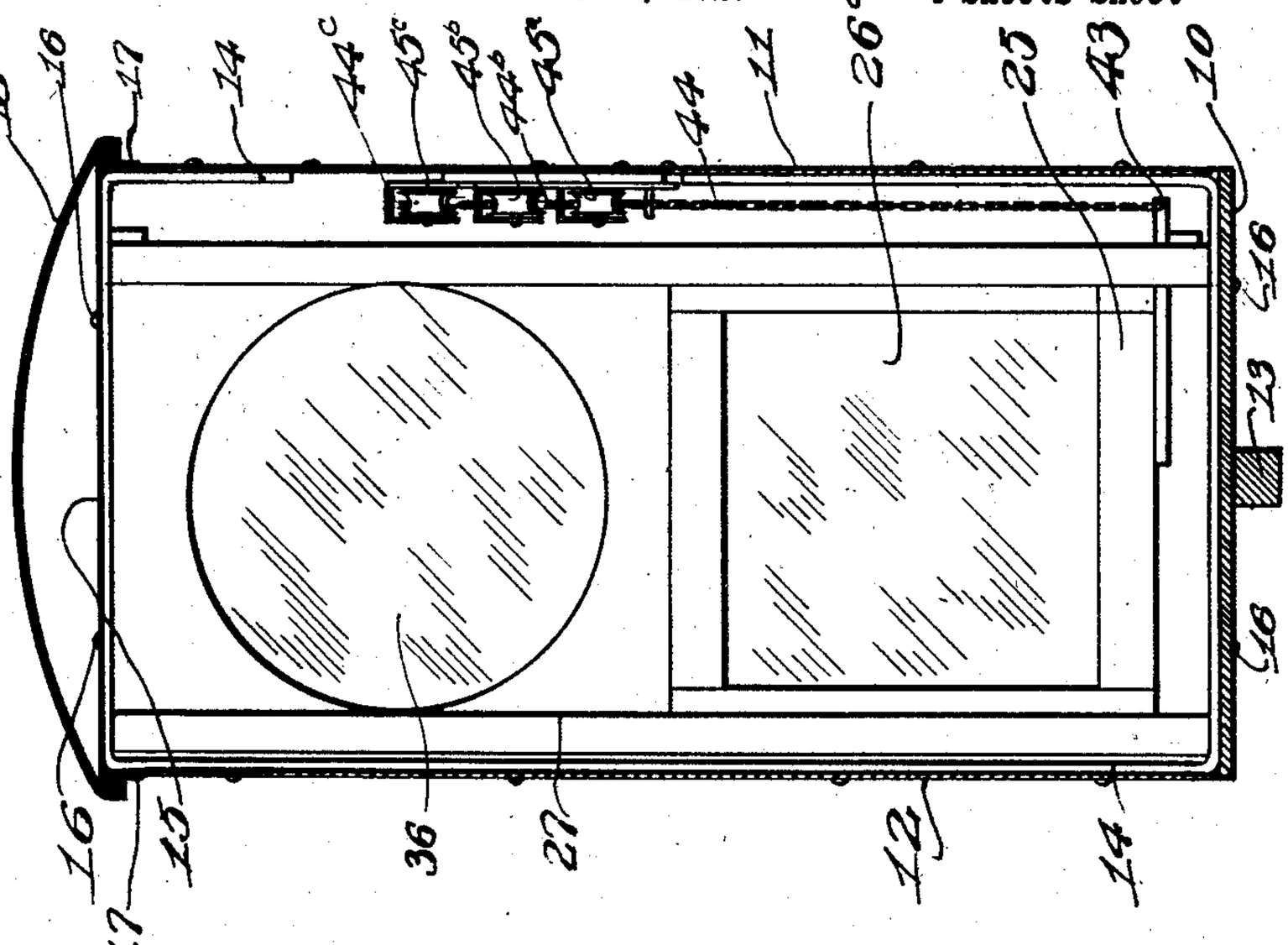
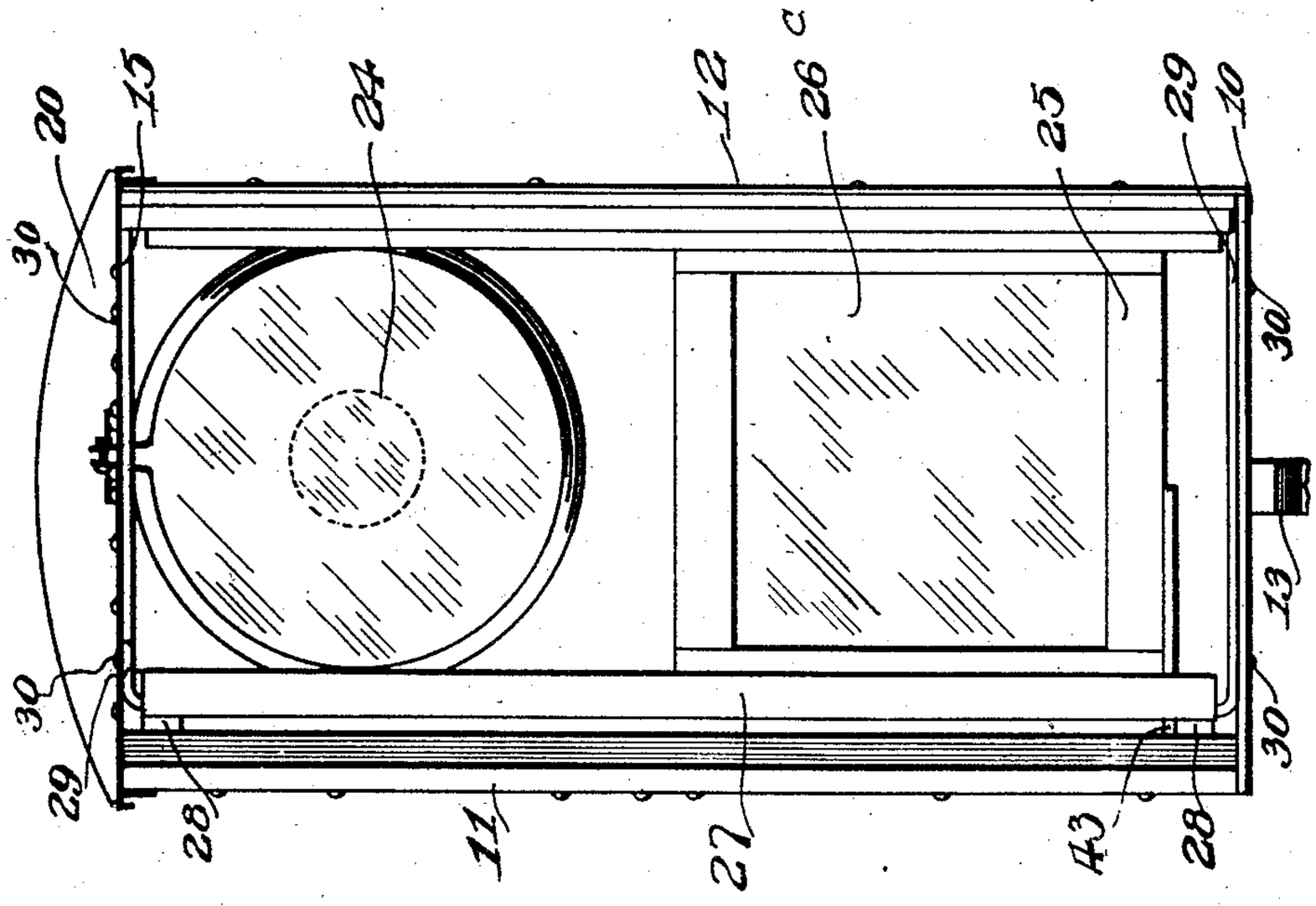


FIG. 2.



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Filed May 25, 1927 4 Sheets-Sheet 3

FIG. 4.

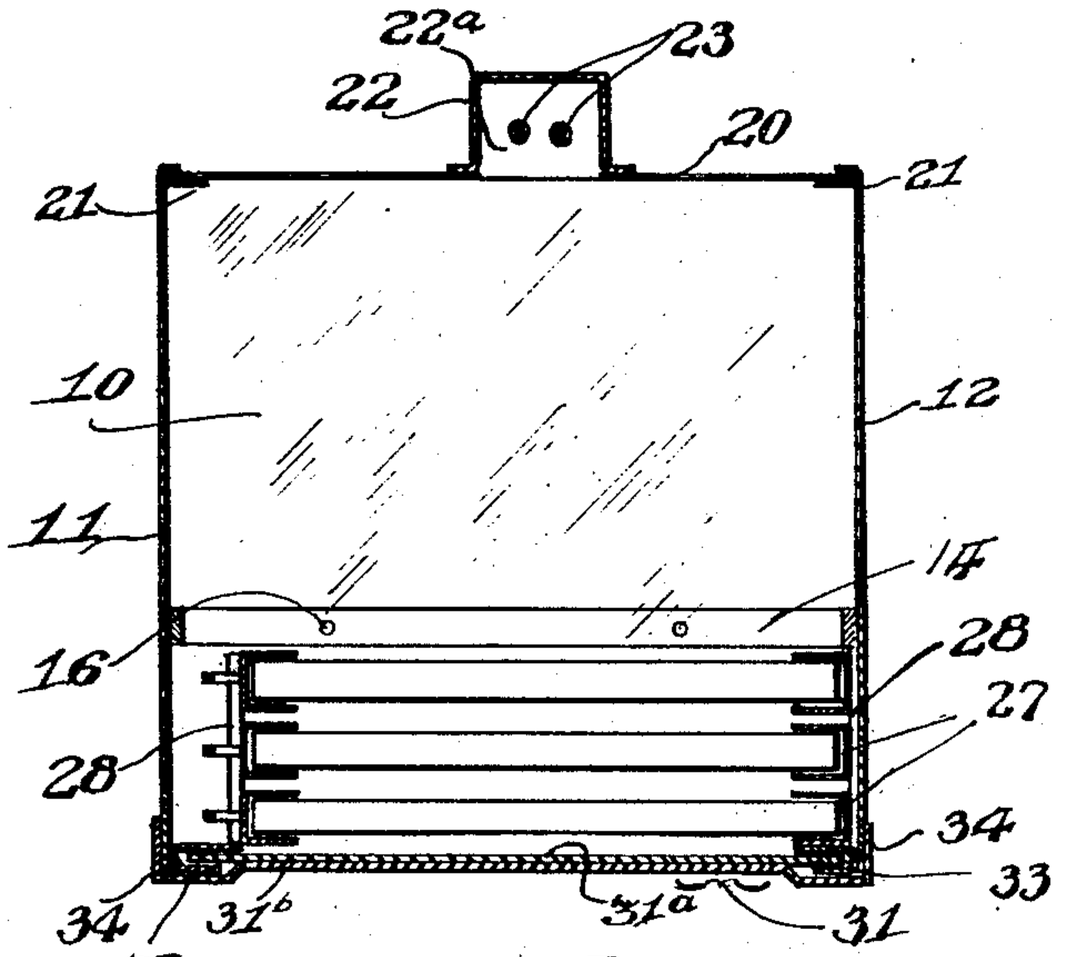


FIG. 5.

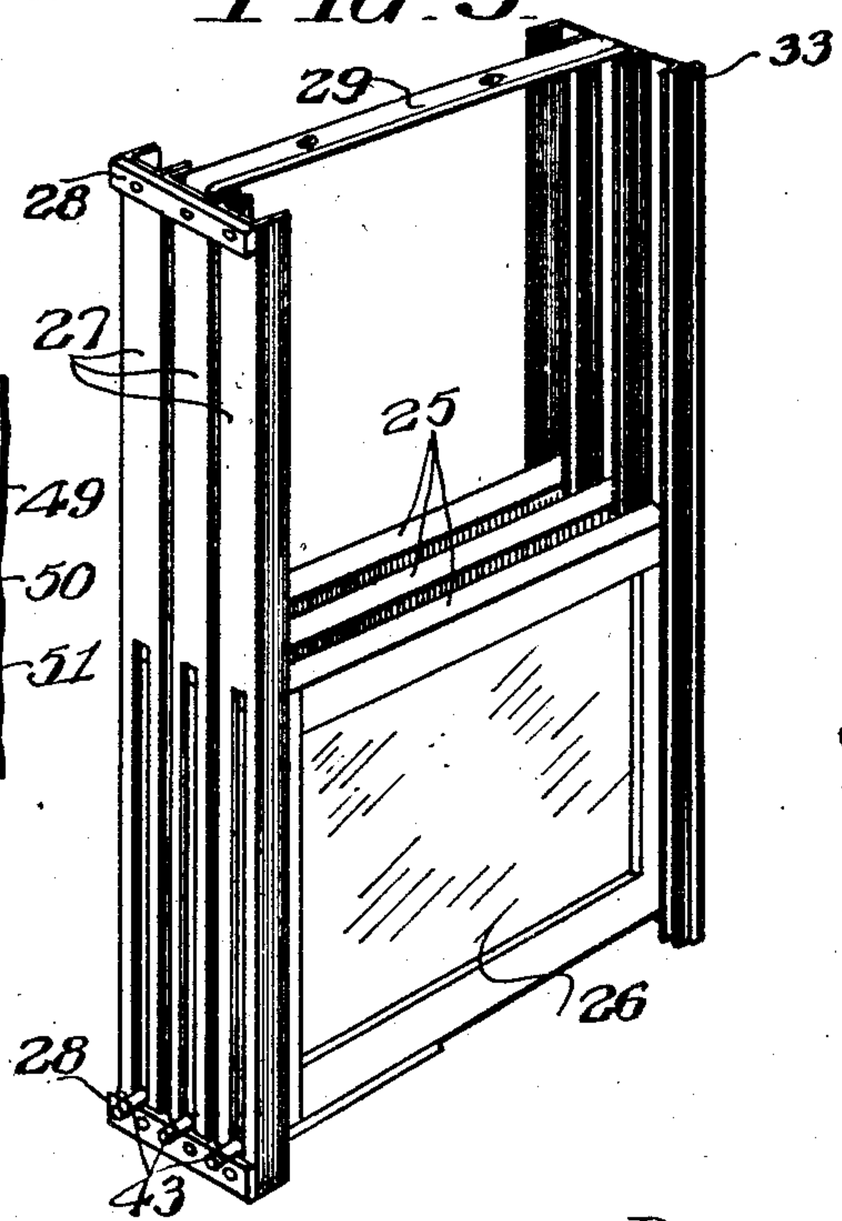


FIG. 6.

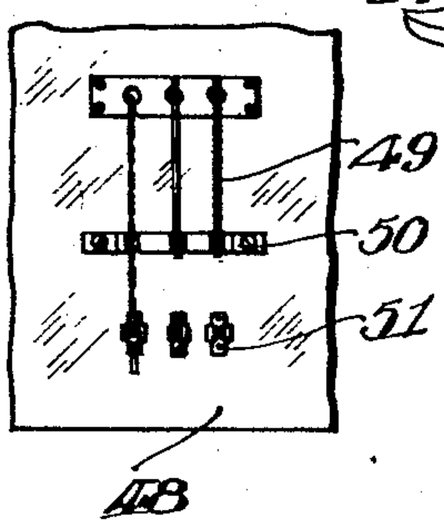
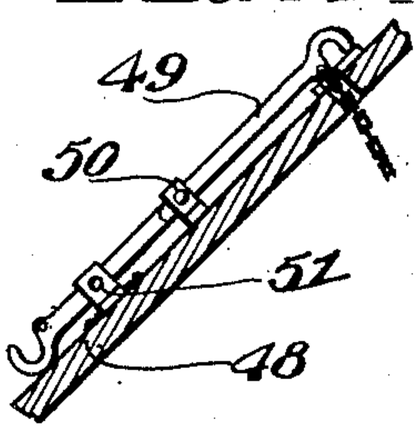


FIG. 7.



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Filed May 25, 1927 4 Sheets-Sheet 4

FIG. 8.

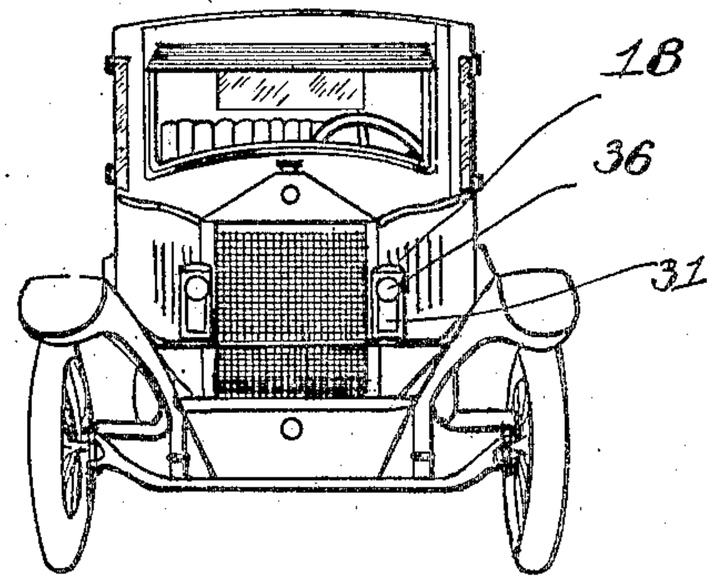
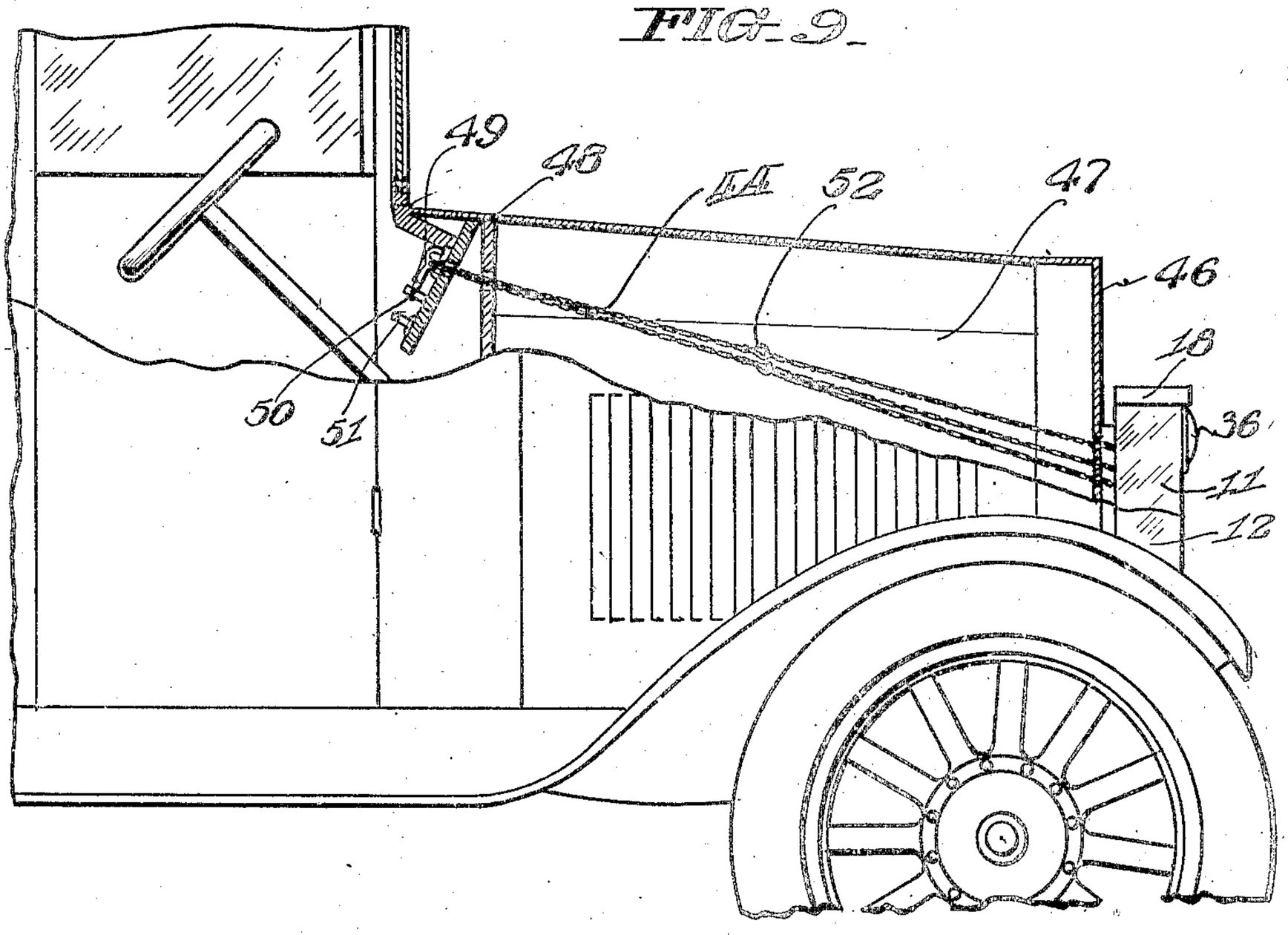


FIG. 9.



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Patented Sept. 4, 1928. 1,683,170

UNITED STATES PATENT OFFICE.

DONATO DI CARLO, OF PHILADELPHIA, PENNSYLVANIA.

LAMP.

Application filed May 25, 1927. Serial No. 193,973.

My invention relates to lamps and more particularly to a lamp having means for reducing the brilliancy and changing the color of the beam of light emitted therefrom. Among the objects of this invention is the production of a lamp having means for interposing light screens between the lamp and the lens, a demountable unit for carrying the light screens and an improved type of casing.

These objects, and other advantageous ends which will appear hereinafter, I attain in the following manner, reference being had to the accompanying drawings in which

Figure 1 is a central vertical cross-sectional view through a preferred form of my invention, drawn to a larger scale than are the other views, and showing one of the light screens in raised position.

Figure 2 is a front view of the lamp shown in Figure 1, the front of the casing and top hood being removed and the light screens in lowered position.

Figure 3 is a vertical cross-sectional view taken substantially on line 3—3 on Figure 1, but showing the light screens in lowered position,

Figure 4 a sectional plan view, taken substantially on line 4—4 on Figure 1 but showing the light screens in lowered position, and

Figure 5 a perspective view of the light screen unit.

Figure 6 is a plan view and

Figure 7 an enlarged edge view of the chain operating means used in conjunction with my improved lamp.

Figure 8 is a front view of an automobile upon which my invention has been installed, and

Figure 9 an enlarged fragmentary side view of same, certain parts being broken away and the motor omitted in order to show the lamp which is mounted upon the left side of the vehicle and to illustrate the manner in which the operating chains may be connected to the operating means mounted upon the dash of the vehicle.

Referring now more in detail to the drawings, the lamp casing has a bottom 10 to which side walls 11 and 12 and a suitable bracket 13, for supporting the lamp, are secured. A frame 14, bent to conform to the cross-sectional outline of the lamp casing, is secured to the bottom and side walls in any desired manner and is adapted to have the top 15 secured to its upper part by means of suitable screws 16 so that top 15 may be readily removed from the lamp casing in order to provide access to the interior thereof.

Each edge of top 15 extends beyond the side wall and has secured thereto a U-shaped guide member 17, one leg of which is adapted to abut the side wall of the lamp casing and the other leg forms a guideway for a hood 18. The front part of hood 18 is provided with a downstanding flange 19, adapted to give the front of the lamp casing a finished appearance, and the rear of hood 18 abuts the casing back 20 which extends above the top 15 and is rounded to conform to the outline of hood 18. Casing back 20 is slidably mounted in guideways 21, formed on the rear edges of side walls 11 and 12, and is provided with a cable conduit 22, adapted to accommodate electric wires 23 through which current may be supplied to an electric lamp 24 mounted in the lamp casing as will be described later, and with a slot 22ª aligning with conduit 22 so that the casing back may be removed from the lamp casing without disturbing wires 23.

A plurality of screen frames 25, each of which may have a differently colored glass 26, are slidably mounted in guides 27; the guides at each end of frames 25 being preferably secured to one another by braces 28 and each set of braces so secured together are preferably secured to one another by U-shaped frames 29 which are adapted to be secured to bottom 10 and top 15 by screws 30. The front of the lamp casing is closed by a front part 31 composed of an inner plate 31ª, slidably mounted in a guideway 32 secured to side wall 11 and in a guideway 33 secured to one of the screen guides 27, and an outer plate 31ᵇ, which is flanged at its edges to form corners 34 slidable on the outside of side walls 11 and 12. The upper part of front part 31 is apertured and provided with an outstanding circular flange 35 in which a lens 36 is secured in any suitable manner as by a rim 37.

A light bracket 38 is secured to top 15 by means of an internally threaded nut 39 and supports a light housing 40 in which a lamp 24 is mounted in the usual manner and which is provided with a reflecting surface 41 and a lens 42; light bracket 38 being so disposed

that lamp 24 is positioned directly behind lens 36.

From the foregoing, it will be evident that access may be readily had to any part of the lamp, or the lamp casing dismantled by merely drawing hood 18 forwardly, raising casing back 20 and front part 31 out of their guideways and, should it be desired, removing the screen unit from the interior of the casing by merely removing screws 30. Light housing 40 may also be removed from the lamp casing by merely unscrewing nut 39 from light bracket 38.

An extension 43 is secured to the bottom of each screen frame 25 and has one end of a chain 44 secured thereto; chains 44 extending upwardly over deflector sheaves 45 and out of the lamp casing through suitable apertures formed therein. Assuming that glass screens 26 are amber, red and green respectively, the amber screen 26^a may be interposed between lamp 24 and lens 36 by pulling on chain 44^a which is deflected over sheave 45^a; the red and green screens 26^b and 26^c may be interposed between lamp 24 and lens 36 by pulling on chains 44^b and 44^c which are led over deflector sheaves 45^b and 45^c.

In Figures 8 and 9, the lamp is shown in use on a motor vehicle and the chains 44 are led through suitable apertures formed in the radiator shell 46 and pass between its flange and the core of the radiator (not shown). From this point, they pass close to the side of the hood 47 and through the dash 48 where they are secured to operating levers 49 hinged in brackets 50 secured to the dash. When it is desired to raise one of the light screens, the lever 49 connected therewith is turned downwardly and yieldingly secured in a friction fastener 51. In order that free access may be had to the motor and its associated parts, I provide a hook 52 near the center of each chain 44 so that the chains may be separated at this point and each part of the chain swung out of the way.

While I have described my invention as taking a particular form, it will be understood that modifications may be made without departing from the spirit thereof, and hence I do not limit myself to the precise construction set forth, but consider that I am at liberty to make such changes and alterations as fairly come within the scope of the appended claims.

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

1. A lamp including a casing body, a light screen unit mounted in the casing body, light screens slidable in said unit, rear guideways formed on the rear of the casing body, a casing back slidable therein, front guideways formed on one front edge of the casing body and on one side of the light screen unit, an apertured casing front slidable in the front guideways, a lens mounted in the casing front, an electric light in the casing body, and means for selectively moving the light screens into position between the light and the lens.

2. A lamp including a casing body, a light screen unit mounted in the casing body, light screens slidable in said unit, rear guideways formed on the rear of the casing body, a casing back slidable therein, front guideways formed on one front edge of the casing body and on one side of the light screen unit, an apertured casing front slidable in the front guideways, top guideways on the upper corners of the casing body, a hood slidable in the top guideways and adapted to secure the casing front and the casing back against upward movement, a lens mounted in the casing front, an electric light in the casing body, and means for selectively moving the light screens into position between the light and the lens.

3. A lamp including a casing body, a light screen unit mounted in the casing body, light screens slidable in said unit, rear guideways formed on the rear of the casing body, a casing back slidable therein, front guideways formed on one front edge of the casing body and on one side of the light screen unit, an apertured casing front slidable in the front guideways, a lens mounted in the casing front, an electric light in the casing body, sheaves secured to the casing body, and chains passing over the sheaves and connected to the light screens for selectively moving same into position between the light and the lens.

4. A lamp including a casing body, a light screen unit mounted in the casing body, light screens slidable in said unit, rear guideways formed on the rear of the casing body, a casing back slidable therein, a conduit formed on the casing back, front guideways formed on one front edge of the casing body and on one side of the light screen unit, an apertured casing front slidable in the front guideways, a lens mounted in the casing front, an electric light in the casing body, wires connected to the light and extending through the conduit, and means for selectively moving the light screens into position between the light and the lens.

5. A lamp including a casing body, a light screen unit mounted in the casing body, light screens slidable in said unit, rear guideways formed on the rear of the casing body, a casing back slidable therein, front guideways formed on one front edge of the casing body and on one side of the light screen unit, an apertured casing front slidable in the front guideways, a lens mounted in the casing front, a light bracket secured to the top of the casing body, an electric lamp assembly secured to the bracket, and means for selectively moving the light screens into position between said lamp assembly and the lens.

6. A lamp including a casing body, a light

screen unit mounted in the casing body, light screens slidable in said unit, rear guideways formed on the rear of the casing body, a casing back slidable therein, front guideways formed on one front edge of the casing body and on one side of the light screen unit, a casing front inner plate slidable in the front guideways, a casing front outer plate secured to said inner plate, flanges formed on said outer plate and overlapping the sides of the casing body, a lens mounted in the casing front plates, an electric lamp assembly in the casing body, and means for selectively moving the screens into position between the lamp assembly and the lens.

7. In combination with the lamp described in claim 3, means for actuating the operating chains including an operating lever, secured to each chain and adapted to be hinged to the dash of a motor vehicle, and a member for holding each lever in operative position adapted to be mounted on the dash of a motor vehicle, substantially as described.

8. In combination with the lamp described in claim 3, and with a motor vehicle having a dash, means for actuating the operating chains including a bracket mounted on the dash, a lever having one end hinged in the bracket and the other end secured to a chain, and a friction catch secured to the dash in spaced relation to the bracket for holding the lever in operative position.

In testimony whereof I have signed my name to this specification.

DONATO DI CARLO.