O. I. NIGH.

SIGNAL LIGHT FOR AUTOMOBILES.

APPLICATION FILED OCT. 28, 1920.

1,415,465. Patented May 9, 1922.

Fig. 1.

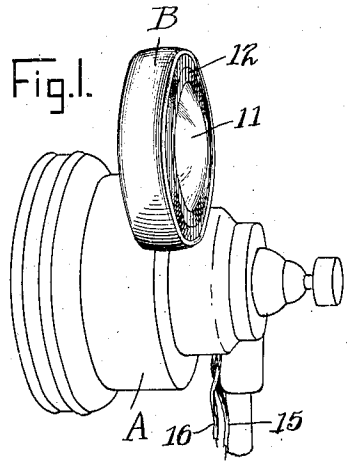


Fig. 2.

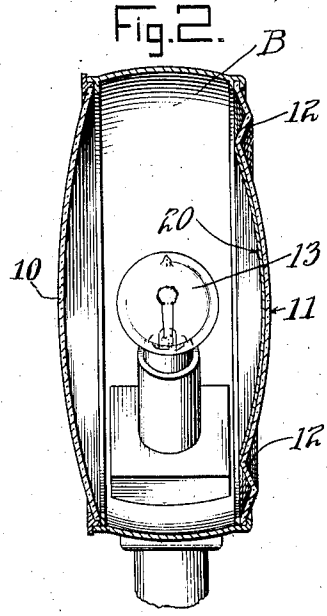


Fig. 3.

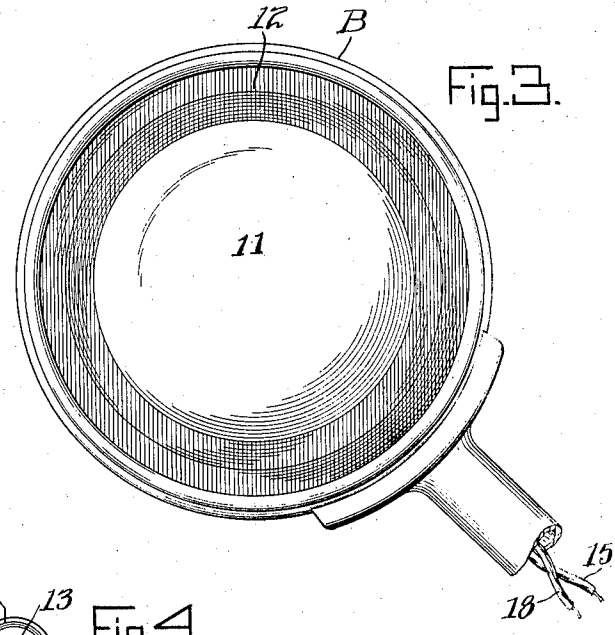


Fig. 5.

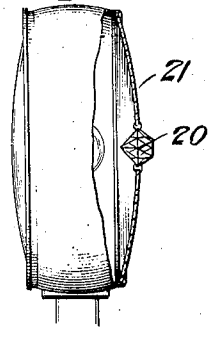
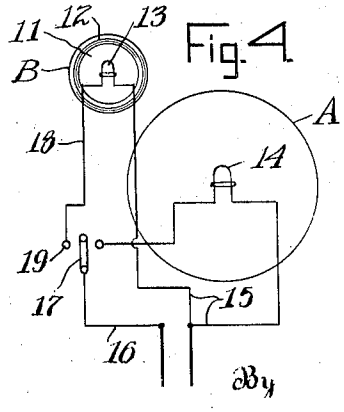


Fig. 4.



Inventor

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UNITED STATES PATENT OFFICE.

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SIGNAL LIGHT FOR AUTOMOBILES.

1,415,465. Specification of Letters Patent. Patented May 9, 1922.

Application filed October 28, 1920. Serial No. 420,195.

To all whom it may concern:

Be it known that I, OMAR I. NIGH, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Signal Lights for Automobiles, of which the following is a specification.

The object of my said invention is to provide a parking lamp or signal lamp for automobiles and one that may be used in connection with, or combined with, a spot searchlight of any approved construction, whereby such a signal light or parking light is provided which will be very efficient and economical in use, all as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings which are made a part hereof and on which similar reference characters indicate similar parts,

Figure 1 is a perspective view showing a spot searchlight of my improved construction;

Figure 2, a sectional view through the portion thereof to which my invention relates;

Figure 3, a rear elevation of Figure 2; and

Figure 4, a diagrammatical view showing the electrical circuit for controlling the lights, and

Figure 5, a view showing a modification.

In said drawings, the portions marked A represent the casing of the searchlight proper, and B the casing of the signal lamp to which my invention relates and which is shown herein as combined with the searchlight.

The searchlight A is or may be of any approved construction.

The frame B of the parking or signal lamp is shown as mounted on top of the searchlight A but may be mounted separately if desired. It has a closure 10 of glass or other transparent or translucent material in its front side and a mirror 11 surrounded by an annular V-shaped red closure 12 of glass or the like in its rear. Within the frame B is a lamp 13 and within the frame A, a lamp 14. Lamp 13 is adapted to be connected in the circuit alternately with lamp 14 composed of wires 15 and 16 by means of a two-way switch 17 adapted to be turned to close the circuit either through lamp 14 or through lamp 13 by means of the wire 18 connected with a terminal post 19 with which said switch is adapted to contact when turned to proper position. While I regard this arrangement as the preferred form, it will be understood that lamp 13 may have its own independent circuit if preferred.

The closure 10 is adapted to shed light from the lamp 13 forward to indicate the position of the car. The rear concavo-convex closure is provided with two reflecting surfaces of which the inner acts as a reflector for the lamp and the outer provides a rearwardly directed mirror. The mirror 11 serves to enable the driver to see approaching cars. The red annular V-shaped closure 12 surrounding the mirror 11 serves when lamp 13 is on, to signal the position of the car carrying the lamp to any approaching car and thus guard against accidents.

In use, the spot searchlight A with signal light B attached is commonly mounted on the side of the wind shield on the left side of the machine, or it may be mounted in any other convenient place on the left side of the machine where the mirror 11 will serve the purpose of reflecting to the driver of vehicles from the rear. In this respect, mirror 11 performs the function common to such mirrors on the top of spot searchlights in everyday use. When parking the car at night, switch 17 may be turned to cut out lamp 14 and cut in lamp 13, which being a very small lamp of low candle power, consumes but little current and is very economical to use. The rays of light from lamp 13 are projected through closure 10 and signal those concerned of the position of the left-hand side of the car. Likewise, the rays from lamp 13 are projected through the V-shaped red closure 12 surrounding the mirror 11 and, due to the shape of said closure, are radiated in both directions so that a red light much larger than the lamp itself and substantially covering the central portion occupied by the mirror 11 is shown to those approaching from the rear.

As before stated, the signal light may be employed separate and independent of the searchlight if desired for any purpose, but I regard the combination of the two lights in the manner shown as the preferred form and the one combining the most advantages in use.

By this means a very efficient signal is

provided and when connected with the usual spot searchlight in the manner described, requires but little additional expense to combine with said searchlight either as a part thereof or as an attachment thereto. The one small lamp 13 is sufficient to signal the position of the car to those approaching from either direction, thus making a most economical lamp for the purpose.

In the modification shown in Figure 5 a colored "jewel" lens 20 is set in the center of mirror 21 and the same result as above described is thereby attained.

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

1. A signal light for automobiles comprising an annular frame, a lamp, a transparent closure at the front thereof, a concavo-convex closure at the rear, said closure provided with two opposed reflecting surfaces, the inner surface acting to reflect the light of the lamp and the other surface providing a rearwardly directed mirror.

2. A signal light for automobiles comprising a curved frame, a transparent closure at the front side thereof, a concavo-convex mirror forming the rear closure, and a lamp positioned between the two, the rear surface of the mirror being covered with reflecting material to provide a reflector for the lamp, substantially as set forth.

3. A signal light for automobiles comprising a curved frame, a transparent closure at one side thereof, a mirror at the other side, a lamp positioned between the two, the rear surface of the mirror being covered with reflecting material to provide a reflector for the lamp, and a light transmitting colored annular closure surrounding the mirror, substantially as set forth.

4. A signal light for automobiles comprising a frame, a lamp therein, a light transmitting closure in front of the lamp and a mirror in the rear thereof surrounded by a colored V-shaped light transmitting annulus, substantially as set forth.

5. In a signal light for automobiles, a circular mirror surrounded by a colored annular light transmitting closure having a V-shape in cross section, substantially as set forth.

6. A signal light for automobiles comprising a lamp having a transparent closure in its front, a rear closure having a convex reflecting surface, a light between the two closures and a colored V-shaped light-transmitting annulus about said reflecting surface, substantially as set forth.

7. A signal light for automobiles comprising an annular transversely curved frame, a transparent convex closure at the front side thereof, a convex mirror at the rear side, a lamp positioned between the two, the surface of the mirror adjacent the lamp being covered with reflecting material, and a transparent colored annulus surrounding said mirror, the annulus being V-shaped in cross section, substantially as set forth.

In witness whereof, I have hereunto set my hand and seal at Washington, District of Columbia, this 20th day of October, A. D. nineteen hundred and twenty.

OMAR I. NIGH. [L. S.]

Witnesses:
E. W. Bradford,
O. M. Keys.