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H. A. MYERS.

LIGHT CONTROLLER.

APPLICATION FILED DEC. 29, 1913.

1,099,715. Patented June 9, 1914.

FIG. 1

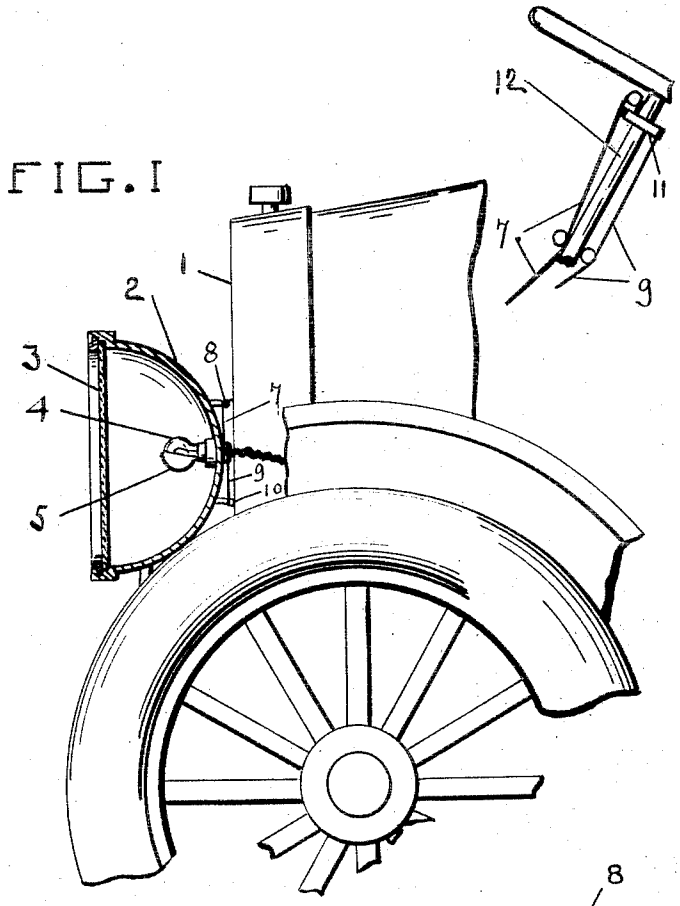


FIG. 3

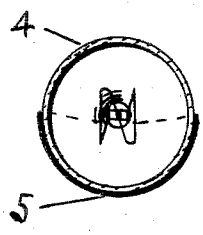


FIG. 4

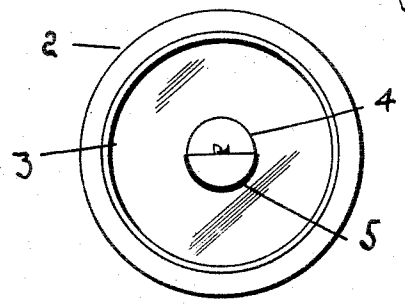
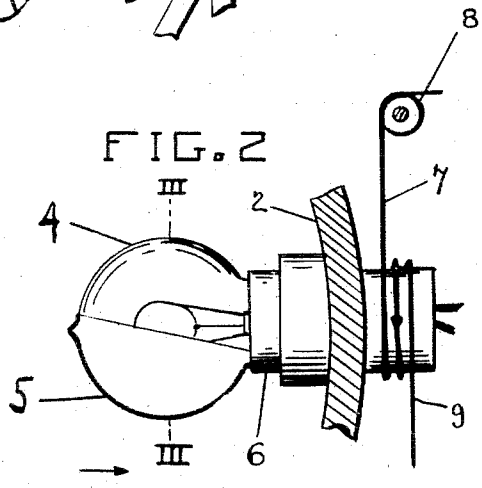


FIG. 2



WITNESSES:

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LIGHT-CONTROLLER.

1,099,715. Specification of Letters Patent. Patented June 9, 1914.

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To all whom it may concern:

Be it known that I, HUBERT A. MYERS, a citizen of the United States of America, residing at Toledo, Lucas county, Ohio, have invented new and useful Light-Controllers, of which the following is a specification.

This invention relates to means for directing rays of light, particularly for projection.

This invention has utility when incorporated in headlights, having especial value for use in connection with motor vehicles to increase light intensity and decrease objectionable light dispersion.

Referring to the drawings: Figure 1 is a fragmentary view of a motor vehicle provided with a headlight equipped with the features of the invention herein; Fig. 2 is a side elevation, on an enlarged scale of an incandescent electric light bulb for use in the headlight; Fig. 3 is a section on the line III—III, Fig. 2, looking in the direction of the arrow; and Fig. 4 is a front view of the headlight of Fig. 1.

The motor vehicle or headlight support 1 carries the headlight or lamp 2 having the forwardly directing or projecting reflector. Closing the front of the lamp 2 is the lens 3.

Disposed centrally in the after portion of the lamp 2 is the light 4 having the inwardly reflecting silvered coating 5 on the lower portion thereof. This coating or mirror 5 is a second reflector gathering the light rays from the lamp which normally are projected downwardly and reflecting them toward the opposite side of the first reflector. There are accordingly more rays for the first reflector to project forwardly. Furthermore the rays variously striking the lower side of the first reflector are dispersed to serve no useful purpose in lateral regions and adjacent the vehicle, and with strong headlights are objectionable in projecting blinding rays over an extended region to each side ahead, tending to confuse pedestrians and approaching drivers.

The device herein, with the light reflector over nearly half of the lower portion of the bulb, it is found produces with a small candle power light and inexpensive reflector for projecting, a condensed region of good illumination from fifty to three hundred feet ahead, as usually mounted. Adjustment may be made to vary these conditions, say in the position or tilt of the headlight, or in the extent of the second or first reflectors.

The device is accordingly one of most simple adaptation to structures at present in use to thereby materially increase the desirability of even cheap headlights, rendering them amply efficient to meet all demands of motor vehicle driving. While incorporating these features of utility in its simplest adaptation, availing of the adjustment by rotating the light and its reflector as to the projecting reflector produces a simple condensed ray field readily directed over quite a considerable forward range in lateral lines. With the reflector 5 throwing the light rays upward, the projecting reflector 2 has the condensed field directly ahead and low. Whichever side the reflector 5 has directed toward the reflector 2, the reflector 2 gathers the condensed rays for projection back. Accordingly if the reflectors 5 are to the right, the left side of the reflector 2 projects the rays to the right and forward. To facilitate this adjustment, the light 4 is carried by the rotatable stem 6 mounted in the reflector 2. An actuating line is fast to this stem 6 having a reach 7 extending one way about the guide 8, and an oppositely extending reach 9 extending about a guide 10. These reaches may be connected to the member 11 on the steering post 12, so that reciprocation of the member 11, may act through the lines 7, 9, to rock the light 4 and thereby adjust the reflector 5 for such finding position as desired, as in turning corners.

What is claimed and it is desired to secure by Letters Patent is:

1. A headlight provided with a first forwardly directing reflector having its axis of projection forwardly, an incandescent bulb therein having a portion thereof silvered to reflect a portion of the rays from the light toward the first reflector for directing in a concentrated light field laterally of the axis of the first reflector, and means for adjustably mounting the bulb for determining the lateral direction of the light field projection.

2. Deflectable light projecting means embodying the combination with a first projecting reflector, of a light therein having fixed therewith a second reflector directed toward the first reflector, and means for adjusting the reflectors relatively to each other where-

by a portion of the light field of the first reflector may be intensified at the sacrifice of other portions of the light field of the first reflector.

3. Deflectable light projecting means embodying the combination with a first projecting reflector, of a light centrally disposed therein having fixed therewith a reflector directed to reflect rays from the light toward one side of the first reflector, and adjusting means for the light for varying the direction of ray projection whereby a portion of the light field of the first reflector may be intensified at the sacrifice of other portions of the light field of the first reflector.

4. A dirigible headlight provided with a first forwardly directing reflector, a light bulb therein having a lateral portion thereof silvered to reflect rays of light toward the opposite side of the first reflector, and means for turning to determined positions the light bulb to change the direction of projection of rays by the first reflector.

5. A dirigible headlight for vehicles provided with steering wheels comprising a stationary primary reflector, a light provided with a ray directing reflector centrally disposed in the primary reflector, and means mounted on the steering wheel for rotating to determined positions the light in the axis of the primary reflector to laterally deflect light rays.

In witness whereof I affix my signature in the presence of two witnesses.

HUBERT A. MYERS.

Witnesses:

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