

Oct. 25, 1927.

1,646,436

G. W. WILKIN

LIGHT SHADE FOR HEADLIGHTS

Filed June 15, 1926

2 Sheets-Sheet 1

Fig. 1.

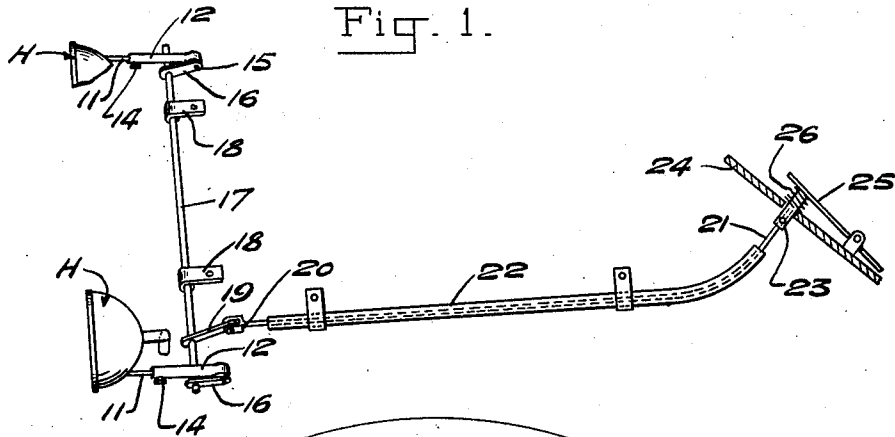
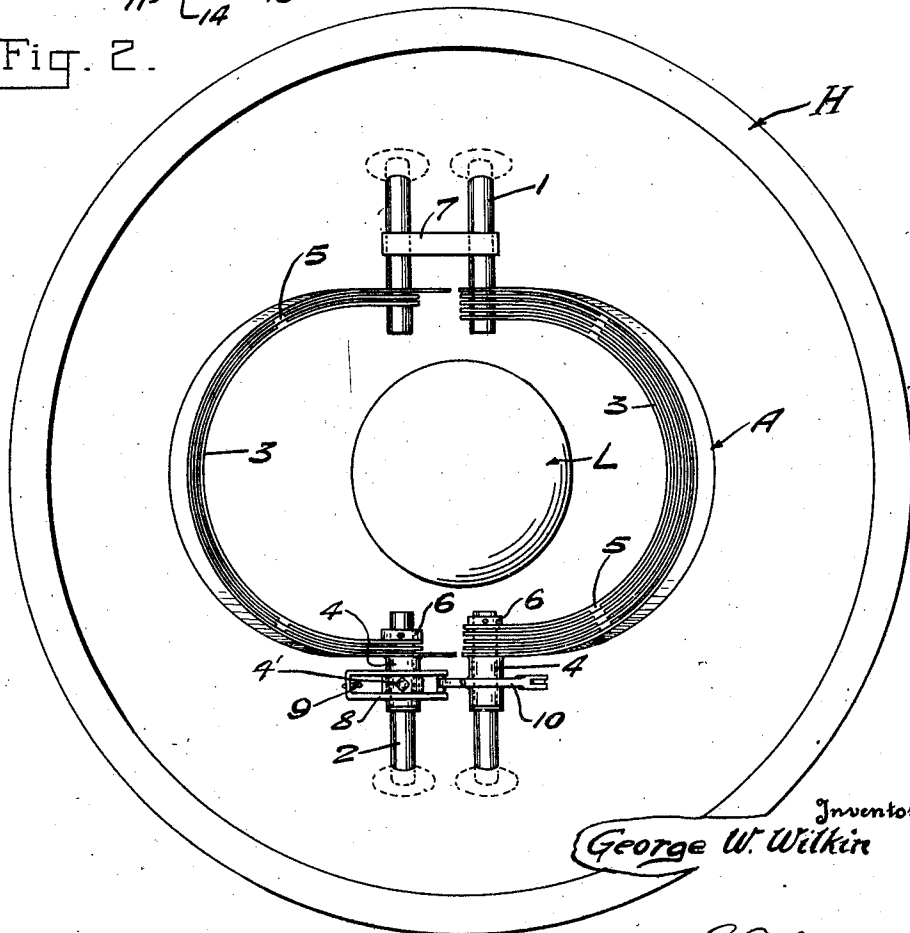


Fig. 2.



Inventor
George W. Wilkin

By *Watson & Coleman*
Attorney

Oct. 25, 1927.

1,646,436

G. W. WILKIN

LIGHT SHADE FOR HEADLIGHTS

Filed June 15, 1926

2 Sheets-Sheet 2

Fig. 3.

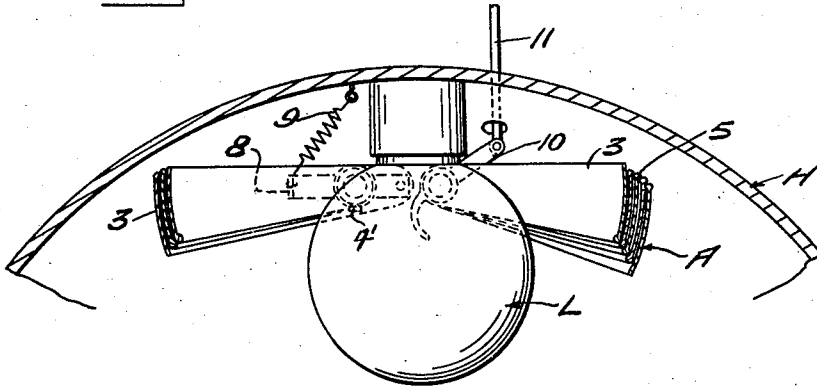


Fig. 4.

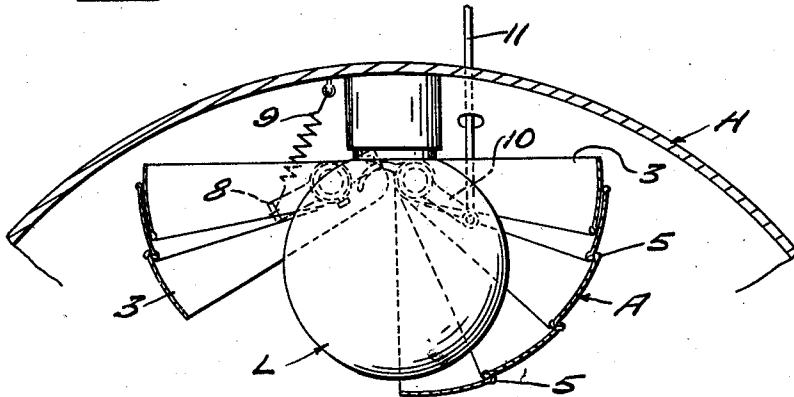
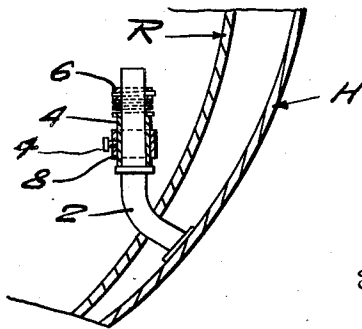


Fig. 5.



Inventor
George W. Wilkin

By *Watson & Coleman.*

Attorney

UNITED STATES PATENT OFFICE.

GEORGE W. WILKIN, OF GRANGEVILLE, IDAHO.

LIGHT SHADE FOR HEADLIGHTS.

Application filed June 15, 1926. Serial No. 116,196.

This invention relates to certain improvements in light shades for headlights and it is an object of the invention to provide a device of this kind wherein the light rays from a headlight may be readily regulated or controlled as the requirements of practice may necessitate and particularly to relieve the driver of an approaching car from such glare as would hinder or handicap such approaching driver.

It is also an object of the invention to provide within the casing of a headlight a collapsible hood coacting with the lamp within the casing to regulate or control the light rays from said lamp, together with means operable from the body of the vehicle to effect the desired manipulation or adjustment of the hood.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved light shade for a headlight whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein:—

Figure 1 is a view partly in perspective and partly in section and of somewhat a diagrammatic character illustrating a light shade constructed in accordance with an embodiment of my invention;

Figure 2 is an enlarged view in elevation of a headlight showing the shade constructed in accordance with an embodiment of my invention arranged therein and in collapsed or open adjustment;

Figure 3 is a fragmentary horizontal sectional view taken through the structure as illustrated in Figure 1;

Figure 4 is a view similar to Figure 3 showing the hood in extended or inclosing position;

Figure 5 is a fragmentary view partly in section and partly in elevation illustrating a mounting for the sections of the hood.

As disclosed in the accompanying drawings, H denotes a pair of headlights adapted to be supported at the front of a vehicle in any desired manner, each of said headlights

being provided at the central portion thereof with the lamp L as is well known. Above and below the lamp L each of the headlights H has arranged therein a pair of rods 1 and 2. These rods are disposed through the internal reflector R and with the upper pair of rods 1 downwardly disposed and the lower pair of rods 2 upwardly directed.

The hood A comprises a plurality of sections 3 each parti-spherical in form. A portion of the sections 3 coact with one side of the lamp L and the remainder with the other side. Each series of these sections is so arranged that when the hood A is opened or collapsed the sections of each series telescope with the sections of lesser radii rearwardly disposed.

The upper extremities of each series of hood sections 3 are freely engaged with an upper rod 1 while the lower extremities of said sections, with the exception of the outermost section, are freely engaged with the upper end portion of a rod 2. The lower extremity of the outermost section 3 is fixed to a sleeve 4 freely mounted on a rod 2. The sections 3 of each series are also provided at their inner margins with the coacting tabs 5 whereby the requisite opening and closing movement of the sections 3 of each series is assured in accordance with the direction in which a sleeve 4 is rotated.

The sections 3 are maintained against displacement with respect to the rods 2 by the collars 6 fixed to said rods above said lower extremities of the sections 3. The upper rods 1 are connected by an interposed bracing member 7 to maintain the same in fixed spaced relation.

Freely mounted on one of the sleeves 4 is an elongated frame 8 extending beyond opposite sides thereof and held in desired position by a set screw 4' or the like. To one end of this frame 8 is fixed an end portion of a retractile spring 9, the opposite extremity of said spring being suitably anchored to the headlight H at a point closely adjacent to the lamp L. This spring 9 is of such tension as to normally urge the frame 8 and the connected sleeve 4 in one direction to maintain the associated or adjacent sections 3 in their collapsed or open arrangement, as particularly illustrated in Figure 3 of the accompanying drawings.

Fixed to the second sleeve 4 and extending beyond opposite sides thereof is an elongated arm 10 one end portion of which

being outwardly curved and adapted to have contact from without with the adjacent end of the frame 8. The opposite end of said arm 10 has secured thereto a rod 11 such as a wire of requisite gauge.

When traveling toward an approaching car push is imposed upon the rod 11 resulting in the sections 3 of the hood with which the arm 10 is associated being swung or extended outwardly as indicated in Figure 4 and a slight outward movement of the sections 3 associated with the frame 8 so that the lamp will not throw a glare on the headlight glass. If desired to shade the sidewalk to the right of the vehicle, especially when driving in the city, this can be readily accomplished by properly adjusting the position of the frame 8 and holding it in such desired position by the set screw 4' or the like, such position of the frame determining the extent of opening or outward movement of the associated or adjacent sections 3.

The rod or wire 11 extends exteriorly of the headlight H through the rear thereof and is telescopically engaged within a tubular rod 12, being locked thereto by a set screw 14 or the like. This tubular rod 12 is pivotally connected, as at 15, to a rock arm 16 carried by a shaft 17 rotatably supported by the forward portion of the vehicle through the medium of the bearing brackets 18 or their equivalent.

The shaft 17 adjacent one end thereof is provided with an additional rock arm 19 to which is pivotally connected, as at 20, an end portion of an elongated flexible rod or wire 21 herein disclosed as being disposed through a suitably supported guide tubing 22. This wire or rod 21 is operatively connected with a head 23 having sliding or free movement through the foot-board 24 of the vehicle and depending from the pedal 25 mounted on said foot-board. Interposed between the pedal 25 and the foot-board 24 and encircling the head 23 is a coil spring 26 of a tension to normally urge upwardly or outwardly the adjacent portion of the pedal 25 and to further facilitate the requisite action of the springs 9.

Upon depression of the pedal 25 the requisite opening or lamp inclosing movement of the sections 3 of the hood A is effected and to the extent required.

It is also to be understood that the tabs 5, or tips as they may be called, operate to prevent, when the sections 3 are in their opened or collapsed position, rattling when the vehicle is in motion.

From the foregoing description it is thought to be obvious that a light shade for a headlight constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled

and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:—

1. In combination with the casing of a headlight and a lamp therein, a hood comprising a plurality of sections, said sections being arranged in series, means for pivotally connecting each of said series for swinging movement to one side of the lamp, the sections of each series being normally collapsed, means for extending the sections of one series, and means coacting with said last named means for partially extending the sections of the second series when the sections of the first series are substantially fully extended.

2. In combination with the casing of a headlight and a lamp therein, means inclosing the lamp for shading one half of the lamp and for partially shading the other half, and a mechanism for moving such means simultaneously into effective or ineffective positions with respect to the lamp.

3. In combination with a casing of a headlight and a lamp therein, posts arranged within the casing above and below the lamp, a hood comprising a plurality of sections, said sections being arranged in series, the sections of each series being freely engaged with a post above and below the lamp, a section of each series being fixed to a sleeve mounted on a post, a frame carried by one of the sleeves and extending beyond opposite sides thereof, an arm carried by a second sleeve extending beyond opposite sides thereof, one end portion of the arm being adapted to engage an end of the frame, means coacting with the frame for automatically imparting swinging movement to the frame to collapse the sections of the adjacent series, and means for imparting movement to the arm to swing said arm in a direction to extend the sections of the adjacent series to partially inclose the lamp, the sections of each series having coacting means to effect the requisite movement in either direction of the sections of each series.

4. In combination with a casing of a headlight and a lamp therein, posts arranged within the casing above and below the lamp, a hood comprising a plurality of sections, said sections being arranged in series, the sections of each series being freely engaged with a post above and below the lamp, a section of each series being fixed to a sleeve mounted on a post, a frame carried by one of the sleeves and extending beyond oppo-

site sides thereof, an arm carried by a second sleeve extending beyond opposite sides thereof, one end portion of the arm being adapted to engage an end of the frame, means coacting with the frame for automatically imparting swinging movement to the frame in one direction, an operating member secured to the arm and extending exteriorly of the casing, and operating means engaged with the extended portion of said member.

5. In combination with the casing of a headlight and a lamp therein, means within the headlight at one side of the lamp extensible to partly inclose the lamp, a mechanism for extending or retracting such means, additional means within the casing at the opposite side of the lamp to partially inclose

said lamp, said last named means being automatically extended after the first named means has been extended to a predetermined extent, both of said extending means moving in a lateral and horizontal direction.

6. In combination with the casing of a headlight and a lamp therein, means for inclosing one side of the lamp for shading the same, means for partially inclosing the other side of the lamp for partially shading the same, and a mechanism for moving simultaneously both of such means into effective or ineffective positions with respect to the lamp.

In testimony whereof I hereunto affix my signature.

GEORGE W. WILKIN.