May 1, 1923. 1,453,281

W. F. PERSONS

LAMP BULB TILTING DEVICE

Filed Oct. 29, 1920 2 Sheets-Sheet 1

Fig. 1

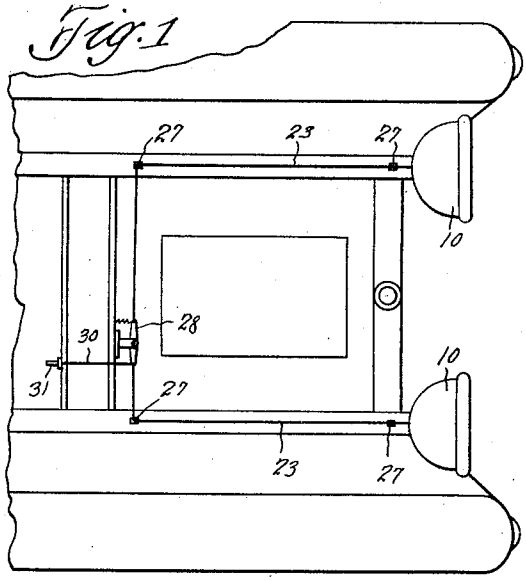


Fig. 5

Fig. 4

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Fig. 2

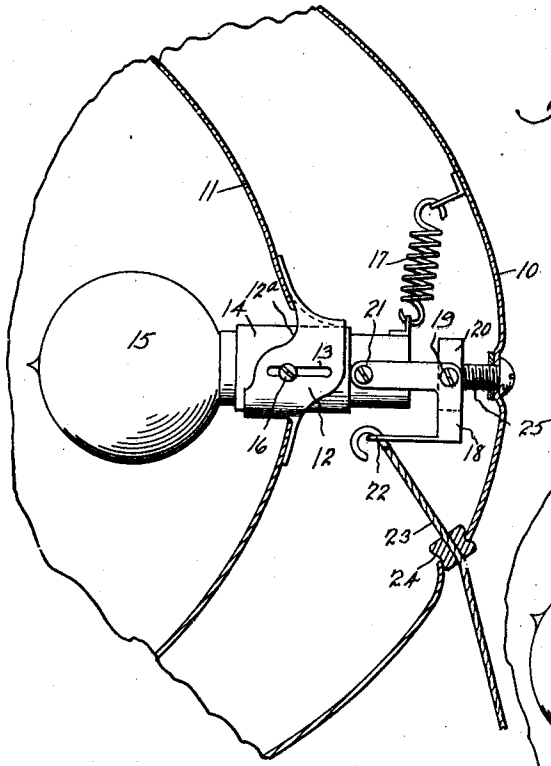


Fig. 3

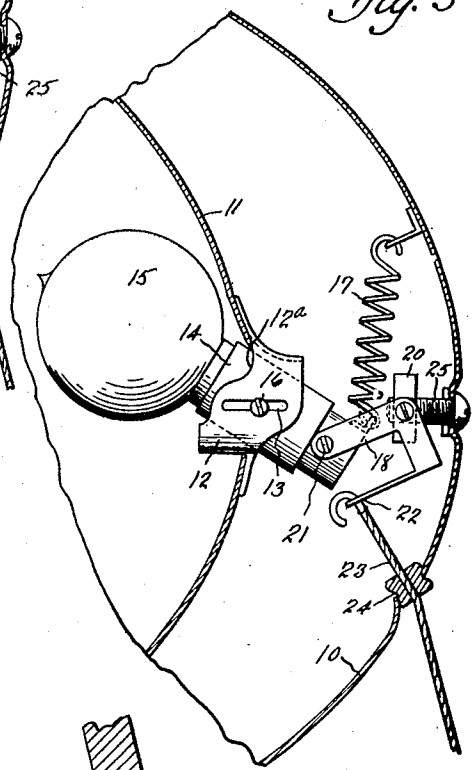
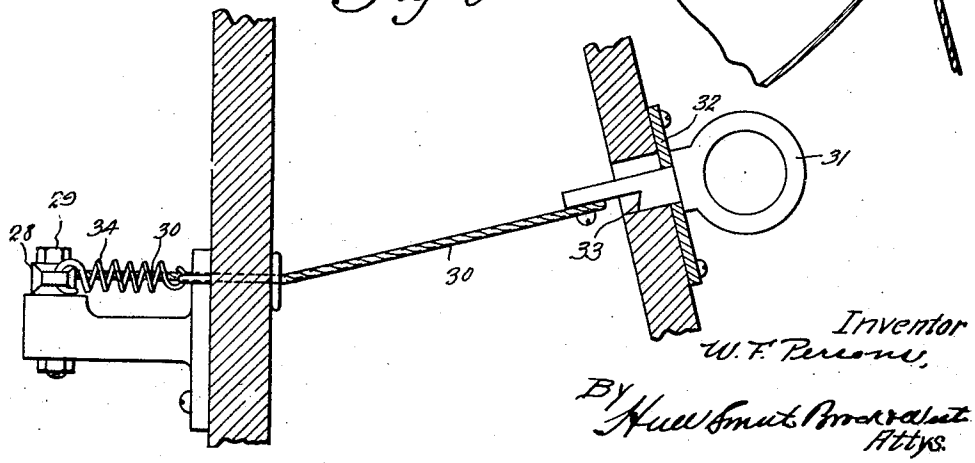


Fig. 6



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UNITED STATES PATENT OFFICE.

WILLIAM F. PERSONS, OF CLEVELAND, OHIO, ASSIGNOR TO THE GUIDE MOTOR LAMP MANUFACTURING COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

LAMP-BULB-TILTING DEVICE.

Application filed October 29, 1920. Serial No. 420,521.

To all whom it may concern:

Be it known that I, WILLIAM F. PERSONS, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Lamp-Bulb-Tilting Devices, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention relates generally to automobile lamps and more particularly to the manner of arranging the lamp socket within the lamp body so that the incandescent lamp can be thrown out of focus and the rays of light deflected when desired, in order to avoid the disagreeable glare, incidental to the use of the commercial filament with a parabolic reflector, and quickly and easily returned to its normal position for distant roadway illumination.

With these objects in view, the invention consists in pivotally mounting a lamp socket in a sleeve carried by the reflector and providing means operated from the dashboard for tilting or rocking the lamp so as to throw it out of focus and thereby prevent the glare, and the invention also includes means for returning the lamp to its normal focused position. The invention also consists in providing for the longitudinal adjustment of the socket so that the lamp can be properly focused. The invention consists also in certain details of construction hereinafter fully described and pointed out in the claim.

In the drawings forming a part of this specification, Fig. 1 is a plan view showing the practical application of my invention; Fig. 2 is a sectional elevation showing a portion of the lamp body and reflector and the adjustable and tiltable socket arranged in the reflector, said socket being shown in its normal position for distant road lighting; Fig. 3 is a similar view showing the socket tilted so as to throw the lamp out of focus; Fig. 4 is a plan of the socket and focusing means; Fig. 5 is a detail view of the operating cables; and Fig. 6 is a detail view of the locking means.

In the practical embodiment of the invention, I employ a lamp body 10, having a reflector 11 arranged therein, said reflector having a sleeve 12 inserted in its extreme rear end, the sides of the sleeve being horizontally slotted as shown at 13, and mounted in this sleeve 12 is the socket 14 which carries the incandescent lamp 15, and this socket 14 is pivotally connected to the sleeve by pivots 16. A coiled spring 17 connects the rear end of the socket with the lamp body, said spring normally holding the socket horizontal.

For the purpose of tilting the socket and lamp against the tension of this spring I employ a rocking member, which in turn is actuated by means of a cable or other mechanism operated from the dashboard of the automobile. The rocking member preferably comprises the bell crank arms 18, pivoted at 19 to a nut 20, and pivotally connected at their forward ends 21 to the rear end of the socket, and the lower rear ends of said bell crank arms are connected by a piece 22 to which is attached the cable 23, passing into the lamp body through the guide eyelet 24.

The nut 20 is mounted upon a screw or bolt 25 which passes through the rear end of the lamp body, and this screw can be turned so as to move the nut backward or forward, and thereby shift the focus of the lamp along the axis of the reflector.

The cable 23 passes around suitably placed sheaves 27 mounted on the frame and is attached to a lever 28 pivoted at 29, and operated by a pull rod or cable 30 connected to a handle 31 working through a slotted plate 32 on the dash, said handle having a notch 33 so as to lock the handle or hold the same in its pulled out position.

When the handle 31 is pulled rearwardly, the cable is drawn rearwardly, pulling down upon the bell crank arms, thus working the member and tilting or rocking the socket and lamp so that the lamp is moved upwardly out of focus, and being thrown close to the upper half of reflector, the rays of light will be thrown downwardly and the troublesome spreading and glaring rays eliminated.

The lever 28 is preferably centrally arranged and has a cable connected to each end so that one handle will be sufficient to work both lamps.

A spring 34 connected to the end of lever 28 serves to return said lever to its normal position as soon as the handle 31 is released. The upper inner end of the sleeve 12 is cut away as shown at 12^a to permit the socket to swing upwardly and the sleeve is slotted

horizontally as shown, so as to permit a longitudinal movement of the socket during its tilting movement as most clearly shown in Figs. 2 and 3.

It will thus be seen that I provide a simple and efficient means for quickly and easily throwing the lamp into such a position with reference to the reflector, that the rays of light will be thrown down instead of forward and thereby eliminate the disagreeable glare.

Having thus described my invention, what I claim is:

In a device of the kind described, the combination with a lamp body and reflector, of a slotted sleeve connected to said reflector, a lamp socket pivoted in said sleeve and movable both pivotally and longitudinally within said sleeve, means for maintaining said socket normally in line with the axis of reflector, a longitudinally adjustable member to the rear of the socket, a rocking member pivotally connected to said adjustable member and to the socket, and means for rocking said rocking member and socket.

In testimony whereof, I hereunto affix my signature.

WILLIAM F. PERSONS.