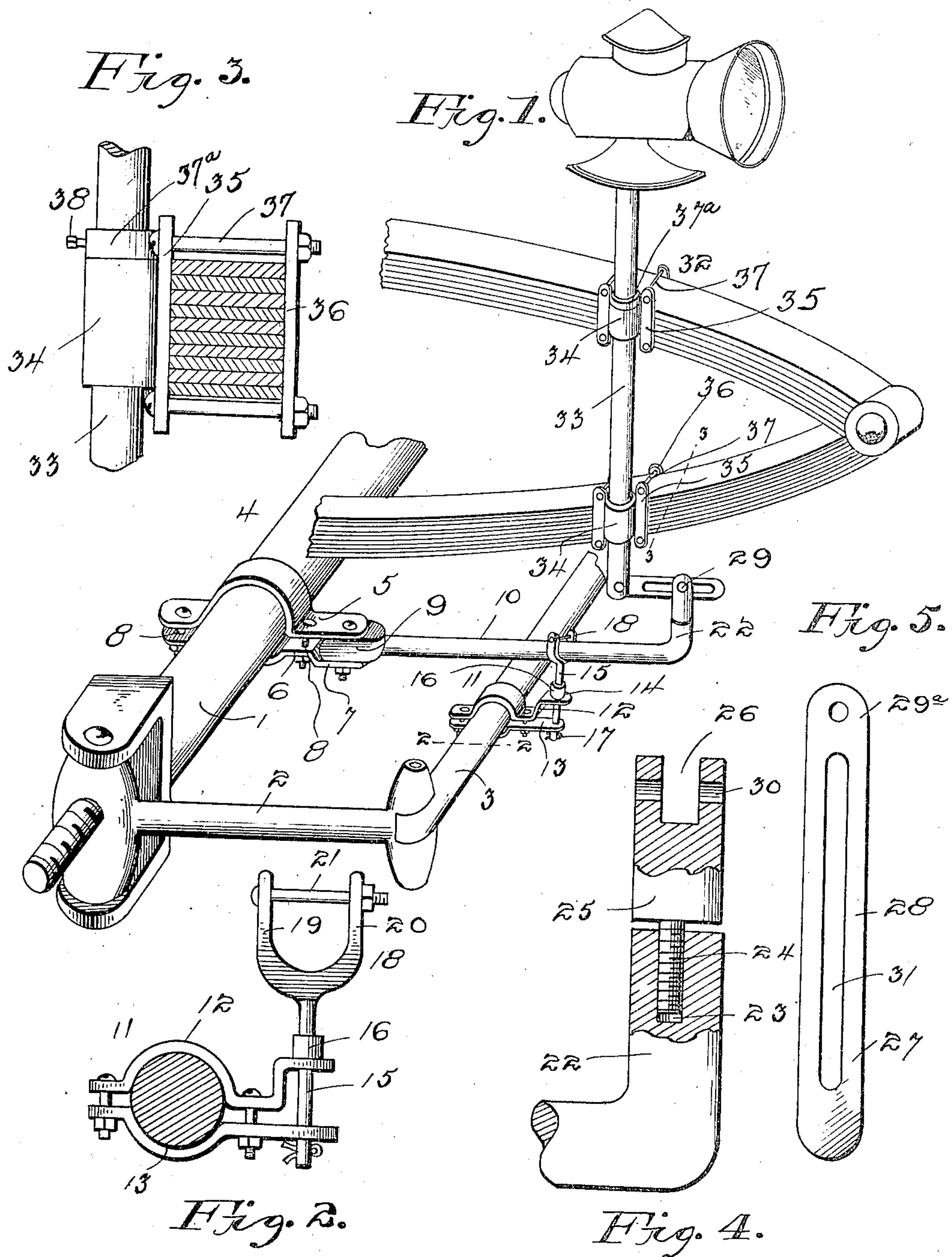


W. H. TONNE.
AUTOMOBILE HEADLIGHT.
APPLICATION FILED MAY 17, 1909.

952,055.

Patented Mar. 15, 1910.



Witnesses
J. W. Wells

Geo. L. M. Cathran

Inventor
William H. Tonne.

Jy E. C. Vrooman,
his Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM HENRY TONNE, OF TRENTON, NEW JERSEY.

AUTOMOBILE-HEADLIGHT.

952,055.

Specification of Letters Patent. Patented Mar. 15, 1910.

Application filed May 17, 1909. Serial No. 496,475.

To all whom it may concern:

Be it known that I, WILLIAM HENRY TONNE, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Automobile-Headlights, of which the following is a specification, reference being had therein to the accompanying drawing.

The present invention is adapted to be used on automobiles for automatically turning the lamps in the direction in which the machine is traveling, especially when the machine is rounding a corner. It has been found very inconvenient to have the lamps rigidly connected to the body of the machine, as the light would be thrown upon some distant object, to one side of the road, when the machine is rounding a corner, and thereby making it impossible for the one driving the machine to see the condition of the road over which the machine is traveling, and, consequently, causing numerous accidents, which can be, by the use of the present invention, greatly reduced in number.

Furthermore, this invention relates to a lamp-regulating apparatus, which can be easily, and quickly, attached to a vehicle.

This invention has further, other objects and advantages, which will be hereinafter pointed out.

In the drawings: Figure 1 is a fragmentary perspective view, showing my improved lamp-regulating apparatus attached thereto. Fig. 2 is a section taken on line 2—2 of Fig. 1. Fig. 3 is a section taken on line 3—3 of Fig. 1. Fig. 4 is a fragmentary sectional view of the outer end of the pivoted bar-member for swinging the lamp. Fig. 5 is a view of the connecting link between the swinging-member and the lamp-support.

Referring to the drawings by numerals, 1 designates the main axle to which is pivotally secured at its outer end the wheel-supporting and guiding-member 2, which guiding-member is in turn connected at its outer end to a guiding-bar 3, which may be connected in the usual manner, for swinging the wheels.

A clamp-member 4 is secured to the main axle 1, and said clamp-member 4 comprises a primary section 5 and an auxiliary section 6. The auxiliary section 6 is provided, at

its outer end, with an offset portion 7. The primary and the auxiliary sections are adapted to be clamped together by means of bolts 8. Between the offset end 7 of the auxiliary section 6, and the outer end of the primary section 5, is adapted to be pivoted an enlarged end 9 of the pivoted bar-member 10 adapted to rotate the lamp-support.

A clamp-member 11 is secured to the guiding-bar 3 and comprises a primary section 12 and an auxiliary section 13. The primary section of the clamp is provided, at its outer end, with an offset, or upwardly-extending, angle portion 14.

A guiding-bolt 15 is secured to the outer end 14 of the primary section of the clamp 11 and the outer end of the auxiliary section and is rotatably mounted thereon. The guiding-bolt 15 is provided intermediate its ends with an enlarged portion 16, which enlarged portion 16 is adapted to prevent the guiding-bolt 15 from any downward movement and the cotter pin 17 is adapted to be passed through the lower end of the guiding-bolt 15, and it will, therefore, be obvious that the guiding-bolt 15 will be held against any upward, or downward, movement through the medium of the enlarged portion 16 and the cotter pin 17. The guiding-bolt 15 is provided, at its upper end, with a yoke, or U-shaped portion 18, which comprises a pair of arms, or fingers 19 and 20. Between these fingers 19 and 20 is adapted to rest the pivoted bar-member 10 and said bar-member is held against displacement from between the fingers 19 and 20 by means of a bolt 21.

The pivoted bar-member 10 is provided, at its outer end, with an upwardly-extending, or angularly-disposed, portion 22, which is provided at its upper end with a screw-threaded aperture 23, in which is adapted to be threaded the screw-threaded depending portion 24 of the link-connecting end 25, which is provided with a bifurcated upper end 26. In the bifurcated end 26 is adapted to be positioned the slotted end 27 of the link-member 28. The link-member 28 is held in the bifurcated upper end by means of a pin 29, which passes through the apertures 30 in said bifurcated end and through the slot 31 of the link 28.

Adapted to be secured to the springs of the vehicle are journal brackets 32, which

are adapted to support the lamp-supporting rod 33. The brackets 32 comprise a sleeve portion 34 and laterally extending ears 35. Adapted to be secured to the opposite side of the springs, are link-members 36, and the laterally-extending portions 35 and link-members 36 are connected, at their outer ends, by means of bolts 37, and it will be readily seen that the journal-members 32 can be tightly clamped upon the springs. To the lower end of the lamp-supporting member 33 is pivotally secured the inner end 29^a of the link-member 28. Upon the lamp-supporting member 33 and intermediate the ends thereof is a collar 37^a, which is adapted to rest upon the upper end of the sleeve portion 34 of the upper journal bracket 32 and thereby prevent the supporting-member 33 from slipping through the journal 34. The collar 37^a is held upon the lamp-supporting member 33 by means of a screw, or bolt, 38, which passes through the collar 37^a and engages the supporting-member 33.

From the foregoing description it will be readily seen that, as soon as the guiding-member 3 is swung, or shifted, the bracket 11, which is firmly clamped thereby will also be moved in the direction, in which the guiding-member 3 is swung and the pivoted bar-member 10 will also be swung upon its pivot through the medium of the guiding-bolt 15 and the lamp-support 33 will also be rotated for the reason that the outer end 22 of the bar-member 10 will be swung and as the same is swung the lamp-supporting rod 33 will be rotated through the medium of the link-connection 28. As the bar-member 10 is swung the member 25 will be allowed to rotate, and, therefore, prevent the twisting of the link-member 28, which would, undoubtedly, occur if said member 25 were not allowed to rotate. The member 25 is not threaded all the way into the aperture 23 and is, preferably, only part the way threaded therein, as shown in Fig. 4, so as to allow the member 25 to readily rotate.

What I claim is:

1. In a device of the class described the combination with an axle, and a guiding-member, of a bracket carried by said guiding-member and comprising a primary and an auxiliary section, said primary section provided with an upwardly-extending angularly-disposed portion, a pivoted bar-member, a supporting bolt secured to the outer end of said bracket and supporting said pivoted bar-member for swinging the same when said guiding-member is actuated.
2. In a device of the class described the combination with a guiding-member, of a bar-member, a bolt-member provided with an upwardly-extending end comprising a plurality of fingers, said bar-member adapt-

ed to be positioned between said fingers, and means passing through the outer end of said fingers for preventing the displacement of said bar member from between said fingers.

3. In a device of the class described the combination with an axle, a guiding-member, and a lamp support, of a bar-member provided with an upwardly-extending outer end having a threaded aperture formed therein, and means threaded into said aperture and connected to said lamp-supporting means for swinging the same when said bar-member is actuated.

4. In a device of the class described the combination with an axle, and a guiding-member, of a pivoted bar-member connected to said axle and said guiding member, a lamp support, means adapted to secure said lamp support to a support, and means adjustably connecting one end of said pivoted bar-member to said lamp-support for rotating said lamp-support when said bar-member is swung.

5. In a device of the class described the combination with an axle and guiding-member, of a pivoted bar-member connected to said axle and said guiding-member, said bar-member provided with a detachable bifurcated outer end, a lamp support, a link pivotally secured to said lamp support, said link provided with a longitudinally-extending slot and said slotted portion of said link adapted to be positioned in said bifurcated end, and means passing through said bifurcated end and said slot of said link for adjustably connecting the lamp support to the outer end of said pivoted bar-member for automatically rotating the said lamp support when said guiding-member is actuated.

6. In a device of the class described the combination with a support, journal brackets secured to said support and provided with a sleeve portion and a plurality of laterally-extending ears, a lamp support journaled in said sleeve portions, means formed upon said lamp-support and engaging said sleeve for holding said lamp-support against longitudinal movement in one direction upon said journal brackets, and means connected to the lower end of said lamp-support for automatically rotating the same.

7. In a device of the class described the combination with an axle and a guiding member, of a lamp support, a bar member provided with an upwardly-extending outer end, a link connecting end rotatably mounted upon said upwardly-extending end of said bar member, means engaging said lamp support and said link connecting end and adapted to rotate said lamp support when said bar member is swung.

8. In a device of the class described the combination with an axle, a guiding mem-

ber, a bar member pivotally mounted upon
said axle, clamp means engaging said guide
member, means carried by said clamp means
and engaging said bar member near the
5 outer edge thereof and adapted to swing the
same when said guide means is shifted, a
lamp support, and means engaging said
lamp support and said bar member and
adapted to actuate said lamp support when

said bar member and guide means are 10
swung.

In testimony whereof I hereunto affix my
signature in presence of two witnesses.

WILLIAM HENRY TONNE.

Witnesses:

JOHN J. SOLAN,

JOSEPH V. SOLAN.