No. 787,757. PATENTED APR. 18, 1905.

E. E. HENRY.

LAMP HOLDER.

APPLICATION FILED FEB. 10, 1905.

2 SHEETS—SHEET 1.

Fig. 1

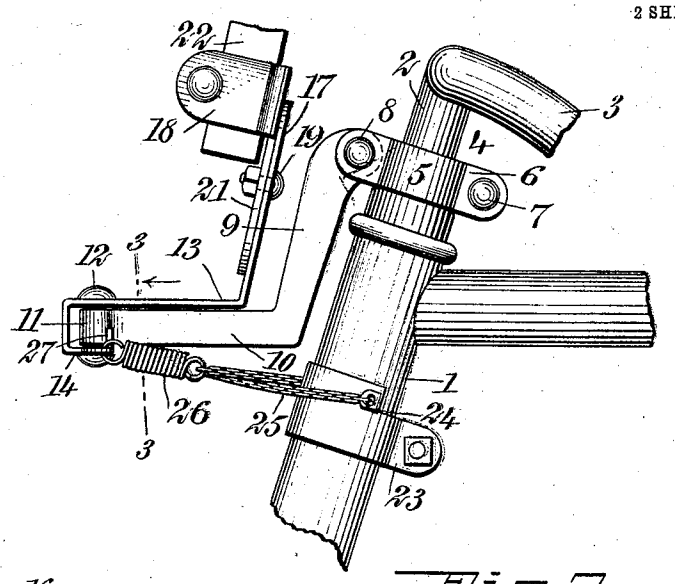


Fig. 2

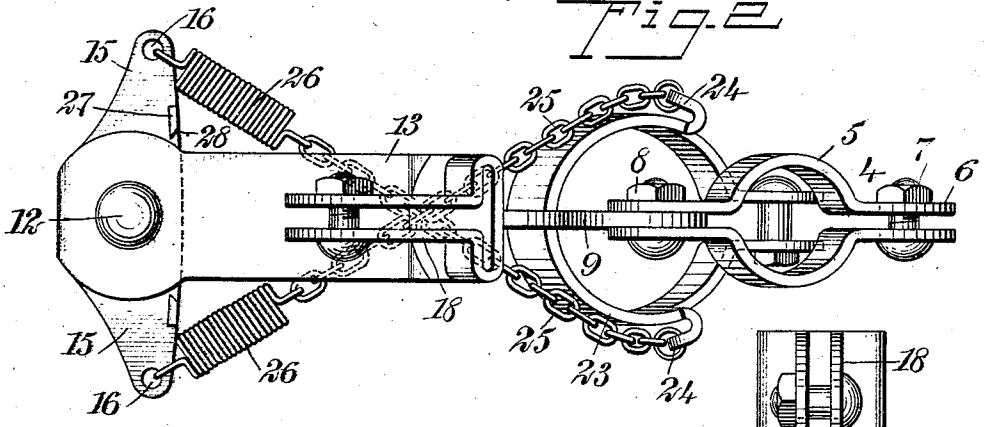


Fig. 3

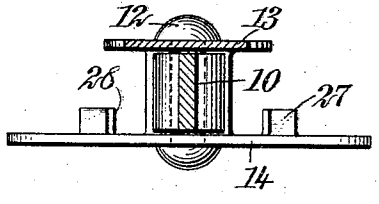
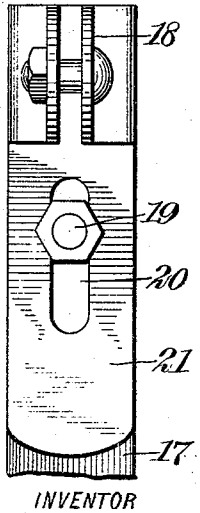


Fig. 4



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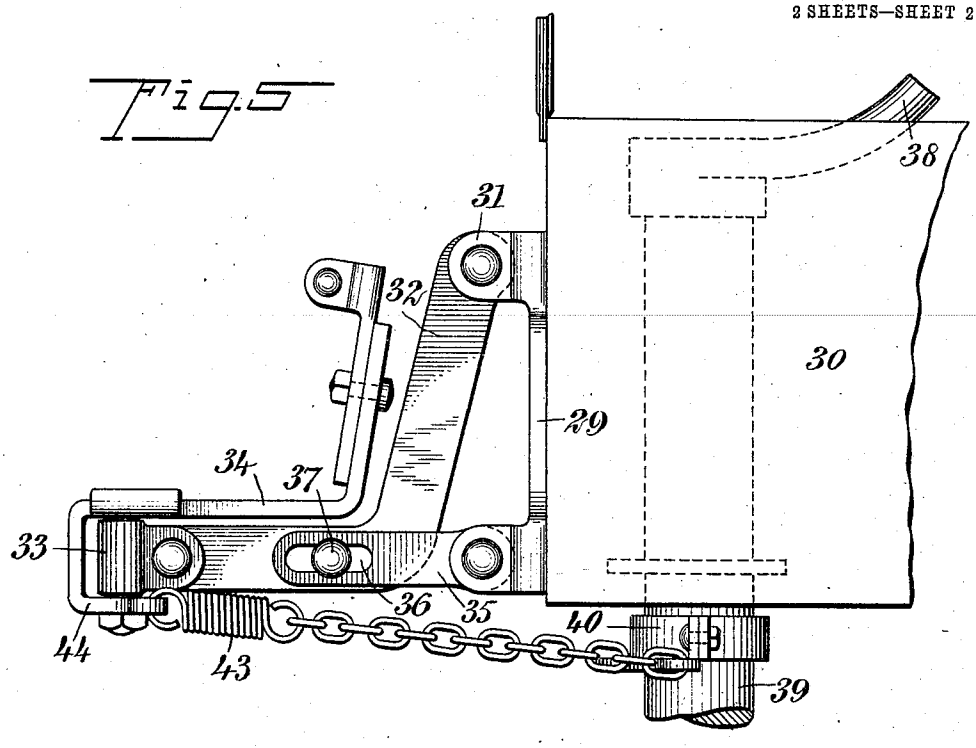
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2 SHEETS—SHEET 2.

Fig. 5



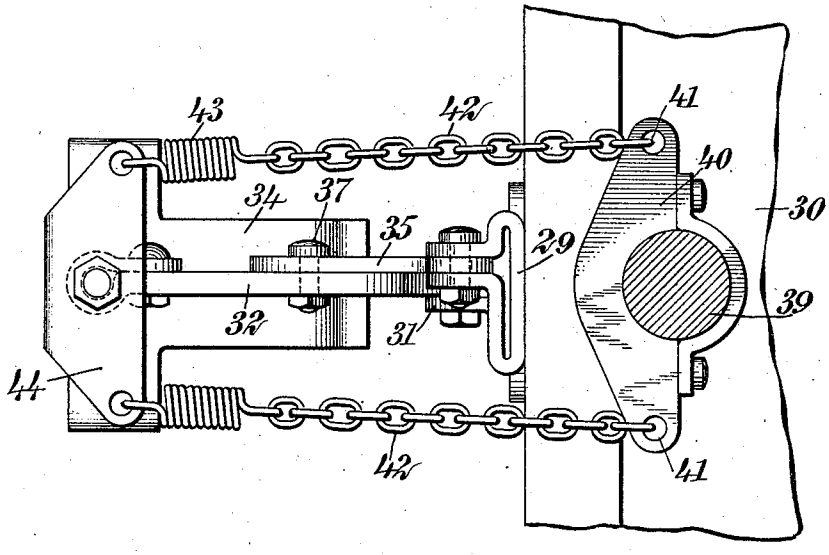


Fig. 6

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No. 787,757. Patented April 18, 1905.

UNITED STATES PATENT OFFICE.

EUGENE ELIJAH HENRY, OF GEORGETOWN, SOUTH CAROLINA.

LAMP-HOLDER.

SPECIFICATION forming part of Letters Patent No. 787,757, dated April 18, 1905.

Application filed February 10, 1905. Serial No. 245,055.

To all whom it may concern:

Be it known that I, EUGENE ELIJAH HENRY, a citizen of the United States, and a resident of Georgetown, in the county of Georgetown and State of South Carolina, have invented a new and Improved Lamp-Holder, of which the following is a full, clear, and exact description.

This invention relates to lamp-holders, and is intended to be especially useful for supporting lamps on moving vehicles, such as automobiles and bicycles.

The object of the invention is to produce a device for this purpose which will be of simple construction and which will afford means for supporting a lamp movably, so that the rays of light will be always projected in advance of the vehicle and in the direction in which the vehicle is advancing.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a bicycle-frame at the head and showing my lamp-support in side elevation, certain parts being broken away. Fig. 2 is a plan of the lamp-holder and on an enlarged scale, representing the same as unattached, but with its parts in the relation which they normally occupy. Fig. 3 is a vertical section taken substantially on the line 3 3 of Fig. 1, this view being upon an enlarged scale and the springs being omitted. Fig. 4 is a front elevation of the upper portion of the device shown in Fig. 1. Fig. 5 is a side elevation similar to Fig. 1, but representing the lamp-holder as applied to the forward part of an automobile; and Fig. 6 is a bottom plan view of the parts shown in Fig. 5, the steering-spindle being shown in section, as will appear.

Referring more particularly to the parts, and especially to Figs. 1 to 4, 1 represents the head of a bicycle-frame of the usual construction, within which the usual rotatable spindle 2 is provided, carrying handle-bars 3. In applying my invention I provide a collar or ring 4, which clamps to the upper portion of the spindle 2 above the head 1, as indicated. This collar 4 is preferably formed of opposite sections 5, provided with ears 6 and clamping-bolts 7 and 8. At the forward bolt 8 there is pivotally attached an arm 9, the body whereof extends downwardly, as shown, substantially parallel with the head 1 and spindle 2, and this arm terminates in a substantial horizontal extension 10, which projects forwardly in front of the bicycle-head, as shown in Fig. 1. The forward extremity of this extension 10 is preferably bent around so as to form a swivel-head 11, adapted to receive a bolt 12, the said bolt affording means for attaching the bracket 13. The body of the bracket 13 lies horizontally just above the horizontal extension 10 and is secured in place by the pivot-bolt 12, as will be readily understood. At its forward extremity the bracket is bent downwardly and then rearwardly to form a wing 14, and the aforesaid pivot-bolt 12 also passes through this wing, increasing the security of the fastening at this point. The wing 14 is formed with laterally-projecting ears 15, which are provided with openings 16 at their extremities for a purpose which will appear more fully hereinafter. The rear portion of the bracket 13 is bent upwardly, so as to form an inclined extension 17, disposed substantially parallel with the body of the arm 9, and to the forward face of this extension a clamp 18 attaches by means of a bolt 19, the said bolt passing through a slot 20, formed in a tongue 21, which extends downwardly from the clamp, as indicated. It should be understood that the clamp 18 is adapted to hold securely the shank 22, which projects in a suitable direction at the rear of the lamp. At a suitable point on the head 1 a collar 23 is rigidly secured. Preferably the upper portion of this collar is cut away on each side and the material bent forwardly, so as to form tabs 24. To these tabs chains 25 attach, and these chains lead forwardly, crossing each other, as shown, before the head, their forward extremities being connected with springs 26, which attach in the openings 16 aforesaid.

From the construction described it should now be apparent that on turning the handle-bars 3 to the left the rotation of the spindle 2 will bring about a swinging or sweeping movement in the same direction of the arm 9, and

it should be evident from an inspection of Fig. 2 that if the spindle rotates toward the right its movement would bring about a turning of the bracket 13 upon its pivot-point 12 in the same direction. This is evident, since the chains 25 are fixed and are crossed, as described.

In order to limit the movement of the bracket, the aforesaid ears 15 are provided at suitable points with nibs 27, which project upwardly, as shown, and which have beveled rear edges 28, adapted to engage the sides of the horizontal extension 10, as will be readily understood.

In adapting the device for use in connection with an automobile I provide a plate 29, adapted to attach to the forward face of the body 30 of the vehicle. The upper portion of this plate 29 is formed with ears 31, which receive pivotally the upper extremity of an arm 32, which arm is substantially similar in construction to the arm 9 aforesaid, and, like the arm 9, it is formed forwardly into a swivel-head 33, which facilitates the attachment of a lamp-bracket 34, said lamp-bracket being substantially similar in construction to the bracket 13, already described. The lower portion of the plate 29 is preferably formed, as shown, so as to receive pivotally a brace 35. This brace projects forwardly and is provided with a longitudinally-disposed slot 36, through which a clamping-bolt 37 passes, attaching the same to the horizontal extension of the arm 32, as indicated. The automobile is supposed to be steered by means of a lever 38, which is attached rigidly to a steering-spindle 39. At a convenient point, preferably beneath the body 30, as shown, I attach a cross-head 40 in any suitable manner, as shown, said cross-head having rudimentary arms, which project transversely of the vehicle, as indicated. These arms are provided with openings 41 at their extremities, in which chains 42 attach, the said chains leading forward to connect with springs 43. The forward extremities of the springs are connected on opposite sides of a wing 44, which is formed at the forward part of the bracket 34. From this arrangement it should be evident that when the lever 38 is moved in a given direction the rotation of the spindle 39 will be communicated to the bracket 34, so that the bracket will turn in the same direction. In this way when the lamp-holder is attached to a vehicle or bicycle the lamp carried thereby readily adjusts itself to the direction in which the vehicle is moving or is about to move. The presence of the springs in conducive to ease of operation and steadies the lamp-bracket in any position which it may assume.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A lamp-holder comprising, in combination, a member adapted to be attached to the forward portion of a vehicle, an arm having an inclined body pivotally attached to said member and extending downwardly therefrom, said arm further having a horizontal extension and a swivel-head formed at the forward extremity thereof, a lamp-bracket, the body whereof is disposed above said horizontal extension, said lamp-bracket having a wing integral therewith bent under said swivel-head, said wing affording means for reinforcing the joint at said swivel-head, a bolt passing through said swivel-head and attaching said bracket, and chains connecting a moving part with said wing and controlling the position of said bracket, the body of said bracket being disposed rearwardly from said swivel-head and having a forwardly-inclined rearward extension lying adjacent to the inclined body of said arm.

2. In a device of the class described, in combination, an arm having an inclined body and a substantially horizontal extension, means for supporting said arm at the rear, said arm having a swivel-head formed on the forward extremity of said horizontal extension, a lamp-bracket the body whereof is disposed substantially horizontal above said horizontal extension and having an integral wing bent under said swivel-head, a bolt passing through said swivel-head and attaching to said bracket, and chains connecting a moving part with said wing and controlling said bracket.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EUGENE ELIJAH HENRY.

Witnesses:
RUSSELL DOAR,
E. E. TUCKER.