

(No Model.)

G. F. WOODMAN.
BICYCLE LANTERN BRACKET.

No. 558,669.

Patented Apr. 21, 1896.

Fig. 1.

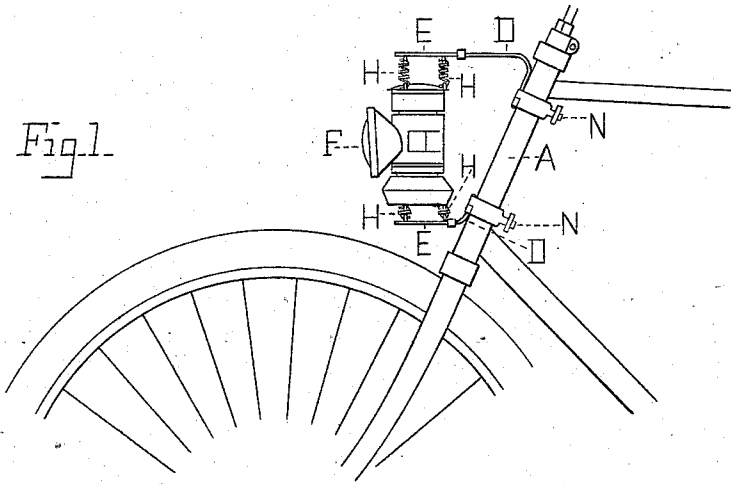


Fig. 2.

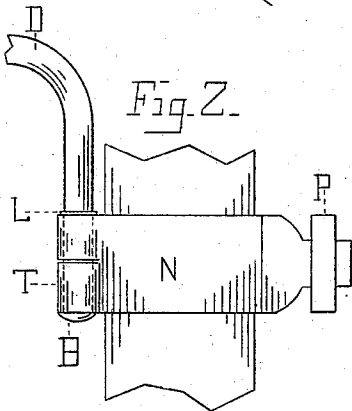


Fig. 3.

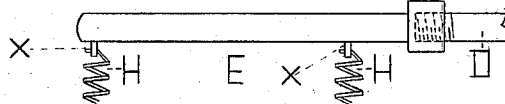


Fig. 4.

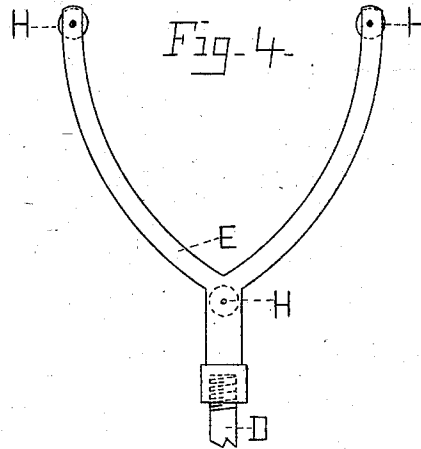
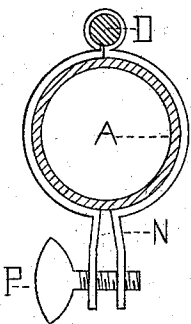


Fig. 5.



WITNESSES.

Frank Stone
H. B. Cagney

INVENTOR.

George F. Woodman

per David P. Page

ATTORNEY.

UNITED STATES PATENT OFFICE.

GEORGE F. WOODMAN, OF NEWBURYPORT, MASSACHUSETTS, ASSIGNOR
OF ONE-HALF TO JAMES F. CARENS, OF SAME PLACE.

BICYCLE-LANTERN BRACKET.

SPECIFICATION forming part of Letters Patent No. 558,669, dated April 21, 1896.

Application filed December 7, 1895. Serial No. 571,355. (No model.)

To all whom it may concern:

Be it known that I, GEORGE F. WOODMAN, of Newburyport, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Bicycle-Lantern Brackets, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to certain new and useful improvements in bicycle-lantern brackets, and its object is to suspend the lantern in such a manner as to obviate all possibility of the light going out.

The accompanying drawings illustrate my invention as applied to an ordinary bicycle-lantern.

Figure 1 shows the brackets E E and the springs H H with the lantern F in position as attached to the head of a bicycle by the rods D D and the clamps N N. Fig. 2 shows a side view of the adjustable clamp N and a portion of the rod D. Fig. 3 shows a side view of the bracket E, showing the coiled springs H H and a portion of the rod D. Fig. 4 shows a top view of the bracket E and the position of the springs H H H. Fig. 5 is a top view of the adjustable clamp N, showing the rod D and the head A in section.

Similar letters refer to similar parts throughout the several views.

The lantern F is suspended perpendicularly in front of the head of the machine by means of the springs H H, which are attached to the brackets E E. The rods D D, which support the brackets E E, to which they are attached by a screw-thread, as shown in Fig. 3, also form the posts for the hinges T T on the clamps N N, and this is done by swaging the shoulder L and riveting the end B, as shown in Fig. 2.

The clamp N is adjustable at any height on the head A, and is held firmly in any position by the thumb-screw P, which, when it is tightened by a transverse pull on that portion of the rod D which forms the post for the hinge T, holds the rod securely in position and prevents its being turned from side to side.

The bracket E, which is screwed onto the rod D, has the springs H H H attached to it by the lugs X, and there are similar lugs attached to the top and bottom of the lantern F. The top springs are of sufficient strength to support the weight of the lantern F, and the bottom springs simply prevent its undue vibration.

The clamps N N and the brackets E E are similar both for the top and bottom supports of the lantern F, the only difference in the supports being the lengths of the rods D D.

It is well known that bicycle-lanterns are frequently extinguished accidentally, and this I maintain is due to sudden jars; and the advantage of my invention is that the lantern is suspended in such a manner by the springs H H H H that in case of a jar to the bicycle the force of the jar is entirely relieved by the upper and under springs H H H H.

Another important feature of my invention is the adjustability of the springs H H, by which the lantern is suspended and held by the position of the clamps N N on the head A, so that if more tension is required on said springs the clamps N N are moved farther apart and if less tension is required nearer together.

Another feature is the adaptability of the device to bicycles having their heads at different angles, as the rods D D may be cut to any lengths in order to suspend the lantern perpendicularly to the plane of the machine.

The clamps N N may be lined with rubber to prevent scarring the head of the machine.

I therefore claim for my invention—

1. In a lantern-bracket the rods D D which support the brackets E E, and also pass through eyes on the adjustable clamps N N, said rods having the lugs L L, and being riveted at B B, whereby said rods form posts for the hinges of the adjustable clamps N N, substantially in the manner described.

2. In a lantern-bracket the coiled springs H H which are attached to the rods D D, which are held in place by the adjustable clamps N N.

3. In a lantern-bracket the combination of

the adjustable clamps N N, together with the rods D D, and the brackets E E, said adjustable clamps N N regulating the tension of the springs H H H H, by their position on the head
5 A, substantially in the manner described.

In testimony whereof I have signed my name to this specification, in the presence of

two subscribing witnesses, on this 5th day of December, A. D. 1895.

GEORGE F. WOODMAN.

Witnesses:

CHARLES W. LADD,
FRANK G. STONE.