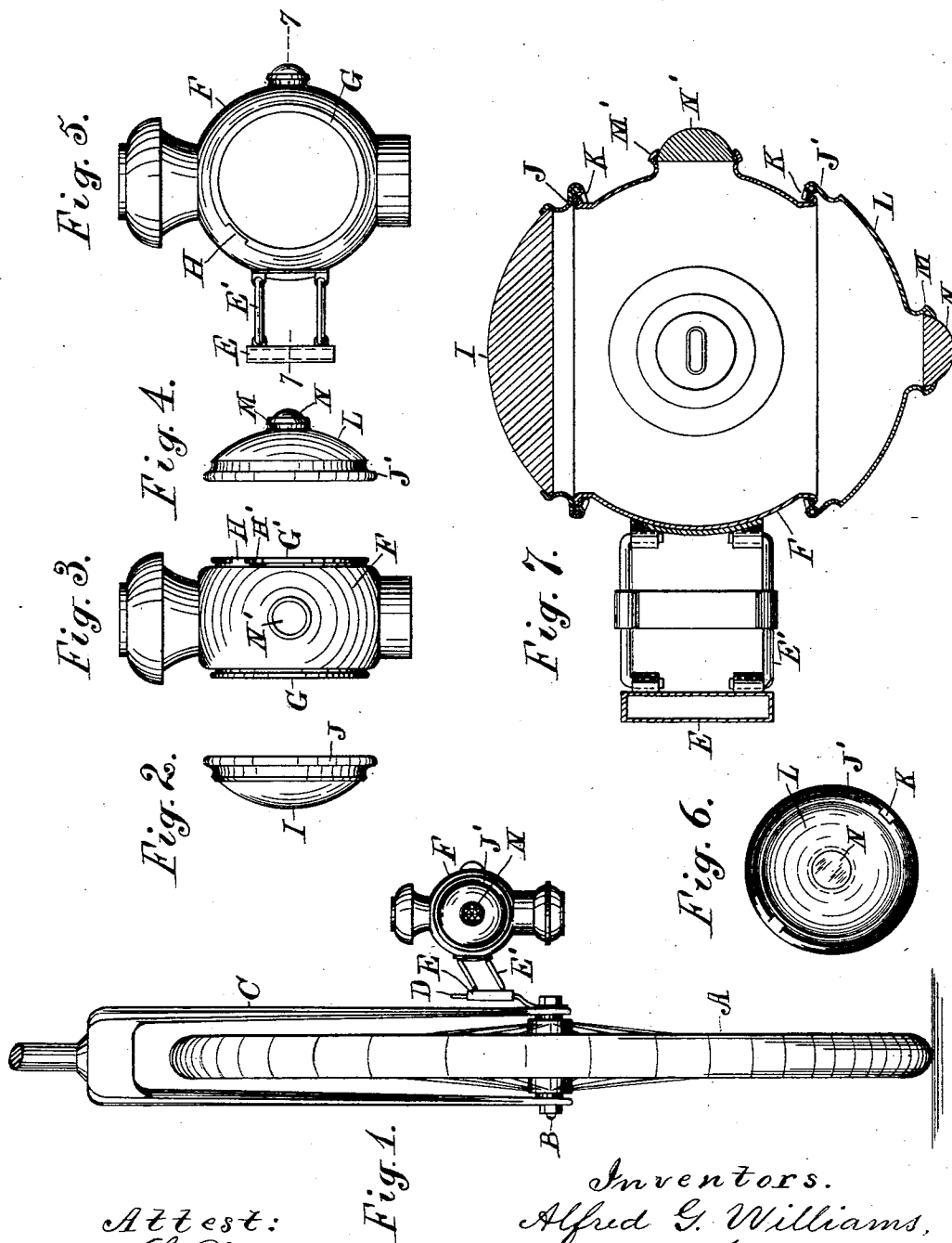


(No Model.)

A. G. WILLIAMS & A. H. MEYER.
BICYCLE LAMP WITH BRACKET.

No. 588,098.

Patented Aug. 10, 1897.



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UNITED STATES PATENT OFFICE.

ALFRED G. WILLIAMS AND AUGUST H. MEYER, OF NEWARK, NEW JERSEY.

BICYCLE-LAMP WITH BRACKET.

SPECIFICATION forming part of Letters Patent No. 588,098, dated August 10, 1897.

Application filed October 24, 1896. Serial No. 609,884. (No model.)

To all whom it may concern:

Be it known that we, ALFRED G. WILLIAMS and AUGUST H. MEYER, citizens of the United States, residing at Newark, county of Essex, State of New Jersey, have invented certain new and useful Improvements in a Bicycle-Lamp with Bracket at Side, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to a bicycle-lamp having a signal-window upon the rear side; and the object of the invention is to adapt such signal-window for application to the rear of the lamp, whether used upon the right or left of the bicycle-frame. Where the lamp is secured upon the axle or fork of the front wheel, it is common to fix the lamp-bracket at either the right or left side of the frame, at the pleasure of the user, and it is obvious that when the lamp is used in one position its aspect is the reverse of that in the opposite position, and unless the lens were reversible the bull's-eye would in one case stand upon the rear side of the lamp, where it could not throw any light upon the path before the rider.

To produce a lamp in which the lens may be used upon either side of the body, the signal-window and the lens are in the present invention mounted in similar holders, so that they may be secured to the body interchangeably.

The lamp-body is provided with a supporting-socket at one side, and the front and rear sides of the body are provided with the interchangeable holders carrying the lens and the reflector. The reflector is provided in the center with a bezel for a colored signal-window, and when the lamp is mounted upon the bicycle the lens is secured upon the front side of the body and the reflector with the signal-window upon the rear side.

The invention will be understood by reference to the annexed drawings, in which—

Figure 1 is a rear elevation of the bicycle-fork carrying the front wheel and the lamp. Fig. 2 is an edge view of the lens and its holder. Fig. 3 is an edge view of the lamp-body; Fig. 4, an edge view of the reflector with signal-window; Fig. 5, a view of the

lamp-body and its socket at right angles to that taken in Fig. 3. Fig. 6 is an inner view of the reflector with the signal-window, and Fig. 7 is a cross-section on line 7 7 in Fig. 5.

A designates the front wheel of the bicycle, B the axle, and C the steering-fork.

D is the lamp-bracket secured upon the axle B, and E the lamp-socket fitted thereon and attached to the side of the lamp-body F in the usual manner by links E'. The body, as shown in Figs. 3, 5, and 7, is formed upon the front and rear with similar collars G G', each being formed at one side with notch H. (Shown in Fig. 5.)

The lens I, as shown in Figs. 2 and 7, is secured in an annular holder J, having a marginal bead which fits outside of the collar G or G' and is formed with two lugs K, adapted to fit behind the collar, as shown in Fig. 7. The lens may be secured interchangeably to either the collar G or G' by hooking one of the lugs upon the back of the collar and pressing the other through the notch H and turning such lug behind the collar by rotating the holder.

A suitable stop (shown at H' in Fig. 3) is formed adjacent to one side of the notch H to arrest the rotation in locking the lugs upon the collar, and such stop also serves to arrest the rotation in the opposite direction to bring one of the lugs opposite the notch for detaching the holder.

The reflector L is shown in Figs. 4 and 7 spun integral with an annular holder J' and bezel M, adapted to retain the jewel N, which serves as a signal-window upon the rear side of the lamp. The holder J' is provided with lugs K, similar to those attached to the holder J. The lens and the reflector with its jewel N are thus fitted interchangeably to the front or rear of the lamp-body.

Intermediate to the collars G G' the links E' are attached to the body and secure it to the socket E.

The bracket D is so adjusted upon the axle B as to project the lamp laterally from the bicycle-frame with the socket E at one side of the lamp-body, so that the lens may be attached to either of the collars G G', which may be at the front of the body. The body is also furnished, as shown in Figs. 3, 5, and

7, with a bezel M' upon the side opposite to the socket E to support a jewel N', which forms a side light on the lamp.

Bicycle-lamps have heretofore been suspended by a fastening at the top of the chimney or funnel, so as to expose the rear side of the lamp with a signal-window in the same, thus presenting a light toward the rear of the bicycle to warn those approaching from the rear. Such method of supporting the lamp-body exposes the lamp-bracket and its connections with the lamp to very great heat, as the heated gases necessarily escape toward such connections, and the rider is thus prevented from safely handling the lamp for examination or removal while the burner is lighted.

In the present construction the lamp is supported by a bracket at the side, which is thus wholly removed from the influence of the escaping hot gases, and by projecting the lamp-socket from one side of the lamp the front and rear are both unobstructed, and the lens may be made interchangeable with the rear signal-window and the lamp thus adapted for use upon either side of the bicycle.

The collars G G' furnish seats especially adapted to holders of the shape shown in Fig. 7, but it is immaterial how the holders and seats are made provided the lens and the reflector having a signal-window are fitted interchangeably to the front and rear of the lamp-body. Such lamp-bodies are commonly stamped from sheet metal, and where the front and rear of the body are formed with similar seats or collars G G' the body may be readily made symmetrical at opposite sides of the center line, and may be thus formed in vertical halves which are identical upon the front and rear sides of the lamp and thus shaped with great cheapness and economy in the same dies. Such division of the body vertically is not shown herein, as it is described and claimed in another pending application. The reflector is also made with great economy by forming the holder J' and bezel M in one piece of sheet metal therewith, as described above.

Having thus set forth the nature of the invention, what is claimed herein is—

1. A bicycle-lamp body provided upon the front and rear with similar seats having interchangeable holders fitted thereto, and carrying respectively a lens and a reflector with signal-window, and the body having upon one side a socket for supporting the lamp upon the bicycle-frame, as and for the purpose set forth.

2. A bicycle-lamp having symmetrical body F with similar collars G, G' upon the front and rear, the holders J, J' fitted interchangeably to such collars and provided with means for securing them thereon, and the holders being provided respectively with the lens I and with the reflector L, as and for the purpose set forth.

3. A bicycle-lamp body provided upon the front and rear with interchangeable holders carrying respectively a lens and a reflector with signal-window, and having upon one side a socket for supporting it upon the bicycle-frame, and upon the opposite side a signal-window, as N', as and for the purpose set forth.

4. A bicycle-lamp having symmetrical body F with the similar collars G, G' upon the front and rear, the holders J, J' fitted interchangeably to such collars and provided with means for securing them thereon, and the holders being provided respectively with the lens I and with the reflector L having signal-window N, as and for the purpose set forth.

5. In a bicycle-lamp having similar seats upon the front and rear of the body with the lens and reflector fitted interchangeably thereto, the reflector L formed in one piece of sheet metal with the bezel M having the jewel N secured therein, and having means for securing it interchangeably upon the seats of the lamp-body, as and for the purpose set forth.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

ALFRED G. WILLIAMS.
AUGUST H. MEYER.

Witnesses:

J. D. CLARK,
THOMAS S. CRANE.