

(No Model.)

W. T. BOWERS.
BICYCLE LIGHTING.

No. 384,120.

Patented June 5, 1888.

FIG. 1.

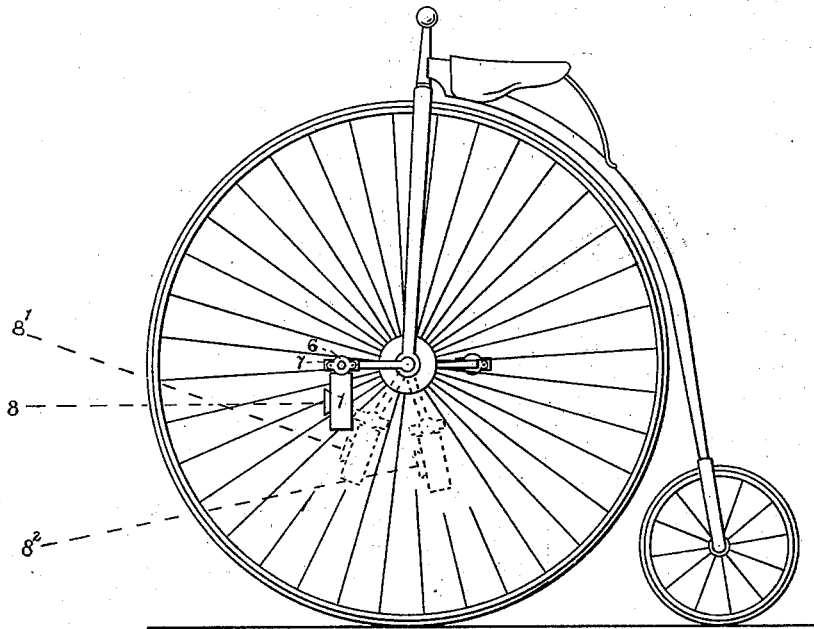


FIG. 2.

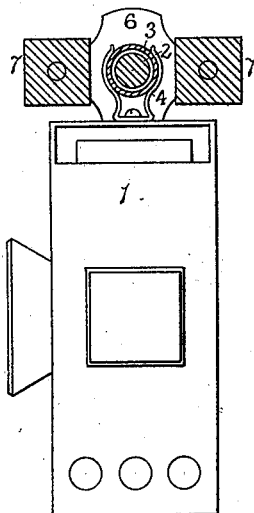


FIG. 3.

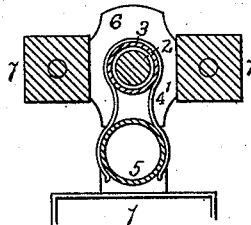
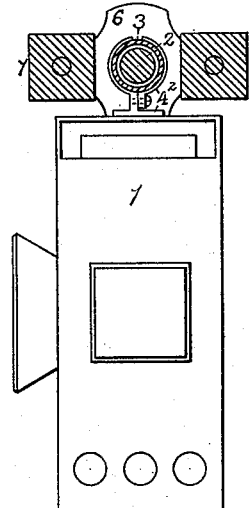


FIG. 4.



WITNESSES.

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WALTER T. BOWERS, OF SACO, MAINE.

BICYCLE-LIGHTING.

SPECIFICATION forming part of Letters Patent No. 384,120, dated June 5, 1888.

Application filed September 14, 1887. Serial No. 249,680. (No model.)

To all whom it may concern:

Be it known that I, WALTER T. BOWERS, a citizen of the United States, residing at Saco, in the county of York and State of Maine, have invented a new and useful Improvement in Bicycle-Lighting; and I do hereby declare that the following is a full, clear, and exact description of my invention, reference being had to the drawings accompanying and forming a part of this specification.

The object of my invention is to furnish a cheap and ready mode of attachment of a lantern to a bicycle and its ready detachment therefrom, to so locate and attach the lantern that the light shall be unobstructed and fall in front of the driving-wheel at or near its path, or at a greater distance ahead, at the immediate pleasure of the rider, and also to avoid other objectionable points incident to the methods thus far devised for lighting bicycles, as will be hereinafter pointed out.

The mode of attaining the object of my invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a bicycle, having parts broken out, showing a lantern attached to the pedal. The dotted outlines of the lantern illustrate the position of the lantern when elevated or depressed. Figs. 2, 3, and 4 are detailed side sectional elevations of pedal with plate removed, showing different forms of clips to attach the lantern to the pedal.

Similar figures indicate similar parts.

1 is the lantern.
2 is the pedal-shaft.
3 is the sleeve.
4, 4', and 4² are three different styles of clips.
5 is a shoulder or roll attached to the lantern when the style of clip shown in Fig. 3 is adopted.

6 is the pedal-plate.
7 is the foot-rest.
8, 8', and 8² show the direction of the line of light under varying positions of the lantern.

The usual mode of lighting bicycles is by attaching a lantern to the head, or by attaching it to the axle between the spokes of the driving-wheel, or to the fork by means of clips, brackets, and rods.

In my invention by simple methods, several of which are shown in the accompanying drawings—namely, by clips of various forms, depending on the taste of the artisan and the form of the pedal—a lantern is rigidly attached to the pedal of the bicycle in such a manner as not to interfere with the foot of the rider, allow of the ready attachment and detachment of the lantern, and elevation or depression of the line of light by a simple and natural movement of the foot of the rider.

The advantages of my mode and manner of attachment over those commonly used are economy of construction, facility of attachment and detachment, avoidance of shadows, non-interference with the use of a cyclometer, larger range of style of lantern, greater capacity for oil or light-producing material, and perfect—almost automatic—control of the light.

I do not claim as my invention any particular form of clip to connect the lantern to the pedal, or any particular form of lantern, as ordinary mechanical ingenuity will suggest various modifications.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with a bicycle-pedal, of a lantern connected thereto in a semi-rigid manner, substantially as herein set forth, and for the purpose specified.

2. The combination, with a bicycle-pedal, of a lantern and a clip or clips connecting the lantern to the pedal, substantially as set forth, and for the purpose specified.

WALTER T. BOWERS.

Witnesses:

S. L. MOODY,
SAM. F. CHASE.