(No Model.)

M. M. YOUNG.

BICYCLE LAMP.

No. 589,459. Patented Sept. 7, 1897.

Fig. 1.

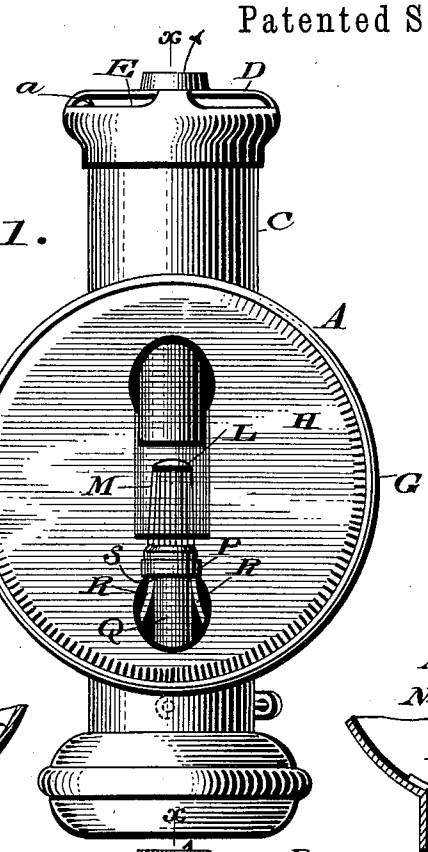


Fig. 4.

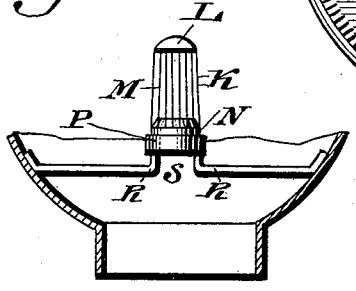


Fig. 3.

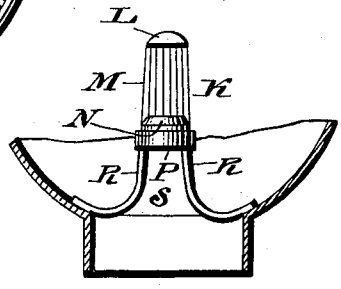
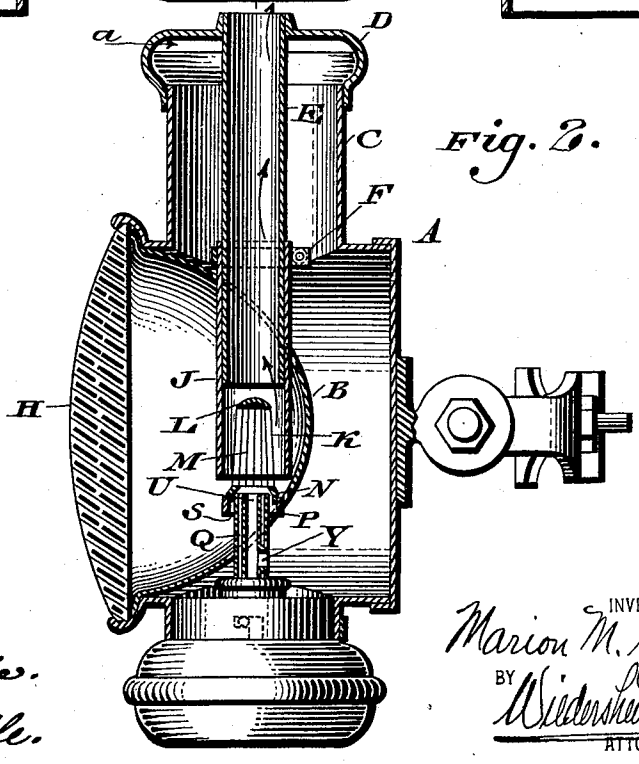


Fig. 2.



WITNESSES

C. F. Eagles.

L. Dowville.

INVENTOR.

Marion M. Young.

BY Wiedersheim & Fairbanks.

ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

MARION M. YOUNG, OF PHILADELPHIA, PENNSYLVANIA.

BICYCLE-LAMP.

SPECIFICATION forming part of Letters Patent No. 589,459, dated September 7, 1897.

Application filed April 5, 1897. Serial No. 630,674. (No model.)

To all whom it may concern:

Be it known that I, MARION M. YOUNG, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Bicycle-Lamps, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an improved construction of bicycle lamp or lantern in which a mantle employed is composed of platinum wire or other material; and the invention consists more especially in supporting the said mantle from the base, said support forming a guide for the wick-tube, the latter being supported intermediate the sustaining devices of said mantle and below said mantle.

It further consists of novel details of construction, all as will be hereinafter fully set forth, and pointed out in the claims.

Figure 1 represents a front elevation of a bicycle-lamp embodying my invention. Fig. 2 represents a vertical sectional view of the same on line *x x*, Fig. 1. Fig. 3 represents a vertical sectional view through a portion of the casing of the lantern, showing more especially the mantle and the supporting means therefor. Fig. 4 represents another view of the mantle, showing a modified means for supporting the same.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a bicycle-lamp, the same consisting of a suitable casing B, to which the fastening device for attaching the lantern to the bicycle is preferably attached.

C designates a hood extending from said casing B and provided with the arms or cowl D, in which latter is supported or secured the chimney E, the lower portion of the same supported by means of the bracket F, which clamps the open-ended tube J, which is composed of suitable transparent material, for the said chimney E, said tube J and chimney E passing through an opening in a portion of the reflector G, which latter is provided with a lens H of the usual construction.

K designates a mantle employed, the same consisting of a suitable head L, upon which a series or plurality of platinum wires M or other suitable material are attached, the lower portion of said wires or mantle being attached to the ring or other device N, which latter is supported on the shell P, said shell being sustained by means of the arms R, which latter are attached thereto in such manner that the cavity or chamber S is formed, which is occupied by the wick-tube Q when the parts are assembled, as will be evident from Fig. 2, especial emphasis being laid upon the supporting of the mantle K from its base, the supports for said mantle having also the double function of forming a guide for the wick-tube and preventing the same from injuring the mantle.

An opening Y is provided in the wick-tube, which allows the air to pass to the central passage U in the wick-tube.

The operation is as follows: When the lantern is moving as the bicycle progresses, air will enter the cowl or hood D, as indicated by the arrow *a*, and, passing into the hood or casing C, will be forced downwardly into the chamber D, and thence upwardly into and out of the tube E, thereby causing a positive draft in the one direction, and this direction being the most essential one, it being noted that by supporting the mantle from its lower portion in the manner described there is no obstruction to the upward passage of the draft, and greater brilliancy of the light and durability of the apparatus are assured, it being also noted that the arms R serve to guide and sustain in proper position the wick-tube.

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

1. A bicycle-lamp having therein a mantle, and means for supporting the latter from its base, said supporting means forming a guide for the wick-tube of the lamp.

2. A bicycle-lamp having therein a mantle, consisting of a head-supporting wire with an attached ring, arms forming a chamber, a shell sustained by said arms, and a wick-tube adapted to occupy said chamber.

3. A bicycle-lamp, a suitable casing, a hood

C supported thereon, a cowl D supported thereon and to which is secured the chimney E, the lower portion of the latter entering the tube J, which latter is supported on said chimney E, a mantle K supported within said tube J, a shell P supporting said mantle, arms R supporting said shell, and a wick-tube Q adapted to occupy the space between said arms.

MARION M. YOUNG.

Witnesses:
WM. C. WIEDERSHEIM,
C. D. MCVAY.