(No Model.)

I. M. ROSE.

BICYCLE LAMP.

No. 588,115. Patented Aug. 10, 1897.

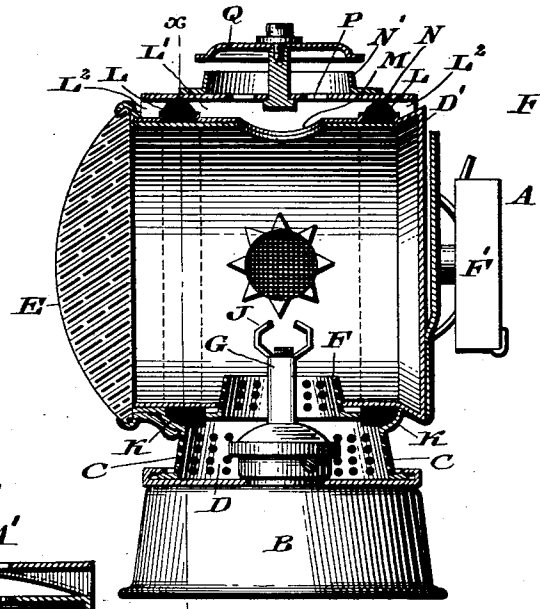
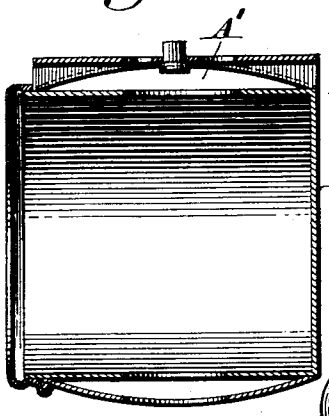


Fig. 1.

Fig. 3.



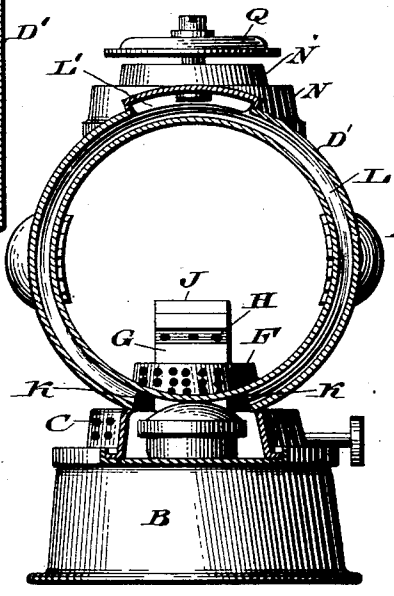


Fig. 2.

WITNESSES:

P. F. Hagles.

L. Douville.

INVENTOR

Israel M. Rose.

BY

Edward Lieberheim.

ATTORNEY

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

UNITED STATES PATENT OFFICE.

ISRAEL M. ROSE, OF PHILADELPHIA, PENNSYLVANIA.

BICYCLE-LAMP.

SPECIFICATION forming part of Letters Patent No. 588,115, dated August 10, 1897.

Application filed October 2, 1896. Serial No. 607,642. (No model.)

To all whom it may concern:

Be it known that I, ISRAEL M. ROSE, 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 a Bicycle-Lamp, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a novel construction of bicycle-lamp, in which provision is made for preventing any superabundance or excess of air over and above that required to support combustion being conducted to the flame, the same being directed into a suitable channel and thence to the exterior of the lamp, all as will be hereinafter set forth, and specifically pointed out in the claims.

Figure 1 represents a longitudinal sectional view of a bicycle-lamp embodying my invention. Fig. 2 represents a transverse section of the same, the section being taken on line *x x*, Fig. 1. Fig. 3 represents a longitudinal sectional view of another embodiment of my invention, to be hereinafter referred to.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates a bicycle-lamp, the same consisting of the base B, upon which the perforated shell C is mounted, thereby forming the chamber D, in which the lower portion of the wick-raising mechanism is contained.

D′ designates the barrel or body of the lamp, which is supported upon said shell C and has one end provided with a suitable lens E, while the opposite end is closed and provided with a suitable attaching device F′.

F designates an annular shell which is suitably supported and surrounds the wick-tube G, which latter has an enlarged portion or cage J, which is adapted to partially inclose the wick, said portion J being provided with the ports H for the admission of air to assist combustion.

K designates an annular passage which leads from the chamber D and communicates with the upright passages L, which discharge into the chamber L′, into which the opening M in the barrel D′ also discharges.

N designates a hood supported upon the shell D′, on which hood is supported the ring N′, into which the ports P open from the chamber L′, the latter discharging at the points L^2 in the front and rear of the lamp and also against the hood or deflector Q, which is suitably supported from said hood N.

The operation is as follows: Any excess of the incoming air which enters the perforated shell C will be conducted to the annular passage K instead of to the flame, and passes therefrom up around the barrel D′ through the passages L and is discharged into the chamber L′ and thence to the atmosphere.

In Fig. 3 I have shown another embodiment of the principle of my invention, in which in place of the annular passages K a single passage A′ is employed, the same surrounding substantially the whole of the barrel D′, the construction of the other parts remaining unchanged.

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

1. In a bicycle-lamp, a base, a perforated shell supported thereon, a wick-tube having an enlarged portion or cage J at its upper end with openings in its under face, and an annular shell surrounding said wick-tube below said enlarged portion.

2. In a bicycle-lamp, a base, a perforated shell supported on said base, a wick-tube having an enlarged portion with openings in its under face, a perforated shell forming a chamber surrounding said wick-tube, below said enlarged portion, and passages leading from the interior of said lower shell outside of said upper shell.

3. A bicycle-lamp having a base, a perforated shell supported thereupon, the barrel or body of the lamp supported upon said shell, a lateral annular chamber opening into the chamber inclosed by said shell, and upright passages extending from said chamber inwardly around the barrel of the lamp and thence to the atmosphere.

4. In a bicycle-lamp, a base, a perforated shell supported thereupon, a barrel supported upon said shell, a wick-tube, an annular shell surrounding said wick-tube, and a laterally-extending annular chamber intermediate the barrel of said lamp and its base, a hood supported upon said barrel and opening to the atmosphere, and an upright passage leading from said lateral annular chamber to a cham-

ber above the barrel of the lamp and thence to the atmosphere.

5. In a bicycle-lamp, a base B having a perforated shell C supported thereupon, the barrel or body of said lamp being supported upon said shell, an annular passage K located between said barrel and shell, a perforated ring inclosing the wick-tube of the lamp, upright passages leading from said annular chamber to a space between the hood and barrel of the lamp, and a deflector supported above said hood.

ISRAEL M. ROSE.

Witnesses:
JOHN A. WIEDERSHEIM,
WM. C. WIEDERSHEIM.