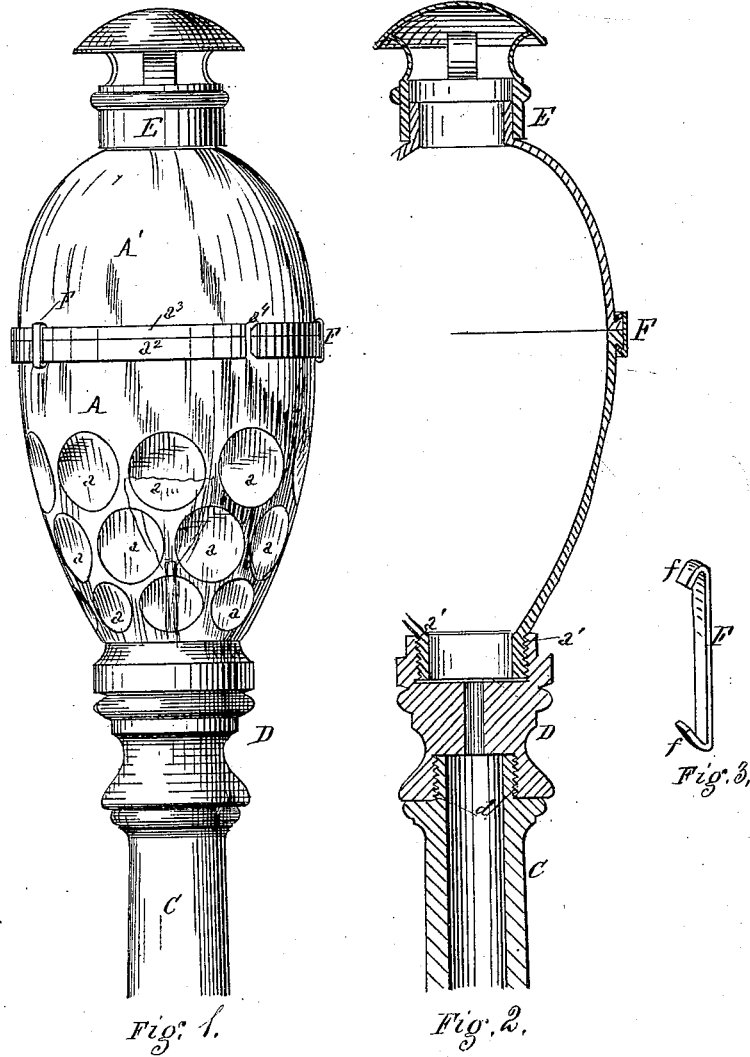


J. BIRD.
Street-Lamp.

No. 205,607.

Patented July 2, 1878.



Witnesses
Francis L. Clark
Erwin Patterson

Inventor John Bird
By Attorney J. H. Stevenson

UNITED STATES PATENT OFFICE.

JOHN BIRD, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN STREET-LAMPS.

Specification forming part of Letters Patent No. 205,607, dated July 2, 1878; application filed February 16, 1878.

To all whom it may concern:

Be it known that I, JOHN BIRD, of Pittsburg, Pennsylvania, have invented a new and useful Improvement in Street-Lamp Globes, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing.

Similar letters of reference indicate corresponding parts.

In the accompanying drawing, Figure 1 is a plan view or elevation of my street-lamp globe, and Fig. 2 is a longitudinal section of the same.

In the drawing, A is that portion of the lamp-globe through which the light reflects, and A' is the upper portion of the lamp-globe, which may be made of glass, porcelain, or other suitable material, and may have as an inside lining some material that will serve to reflect the light. *a a a* are lenses, made in the part A in the process of pressing the same. These lenses may be of any number to serve the purpose of throwing the light outward and downward. This part A may be made of a square shape, and have a lens for each side, which may be of any desired size.

*a*¹ is a thread formed on the lower part of the part A, and is used to screw the lamp-globe into the block D of the lamp-post C. By this method of securing the lamp-globe to the post it will be seen that there is no obstruction of the light by the supports usual in the present style of lamps.

*a*² is a ring around the upper portion of the part A. *a*³ is a ring around the lower portion of the part A'. These rings *a*² and *a*³ fit closely together, and when thus together are of a dovetail shape, so formed as to admit of the fastening device F to fit closely therein by means of the hooks *f f*.

E is the cap of the lamp-globe, and is of ordinary construction. *a*⁴ is an opening in the rings, for the purpose of allowing the fastener F to be slid in place on said rings. *d* is a thread formed in the block D, and is used in securing the block D to the post C.

The part A of my street-lamp globe is made by pressure in molds or dies, and in this way I can form the lenses, or, if desired, any other figure or figures; but, as at present intended, I only expect to form the lens, to utilize the

light in the lamp-globe at a greater distance from the lamp than is possible by the present style of lamp-globes.

I am aware that street-lamps have been made with panels or panes, on each of which there are a series of bosses to reflect light; but these panes or panels require frame-work.

I am also aware that street-lamp globes have been formed in two entire sections; but the distinguishing feature of mine is in the formation of a globe with an upper and a lower half, joined by the rings and fastener, as herein described, and the securing to a lamp-post of the entire globe by means of the thread *a*¹, thus forming a globe with no metallic frame-work or other obstruction of light from the same.

I introduce air to the burner of my lamp-globe through the bottom of the same, the screw used to secure the lamp-globe to the post being hollow and made to sit in a ring. In this way air will be free to pass up to the burner alongside of the gas-pipe.

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

1. A molded pressed street-lamp globe of which the part A shall be in one piece, having the lenses *a a* and thread *a*¹, to secure the same to the lamp-post, substantially as described and shown.

2. In a molded pressed street-lamp globe, the part A, made of one piece, having ring *a*² and thread *a*¹, and lenses *a*, substantially as and for the purposes set forth.

3. The combination, in a street-lamp globe, of the parts A and A', rings *a*² and *a*³, and the fastener F, substantially as described, and as and for the purpose set forth.

4. In a street-lamp globe, the parts A and A', fastener F, rings *a*² and *a*³, combined with the block D, and post C, substantially as described and shown.

In testimony that I claim the foregoing invention as my own I have, at Pittsburg, Pennsylvania, set my hand to this paper in the presence of two witnesses.

JOHN BIRD.

Witnesses:

WILSON S. ROOSE,
H. B. BLACKSTONE.