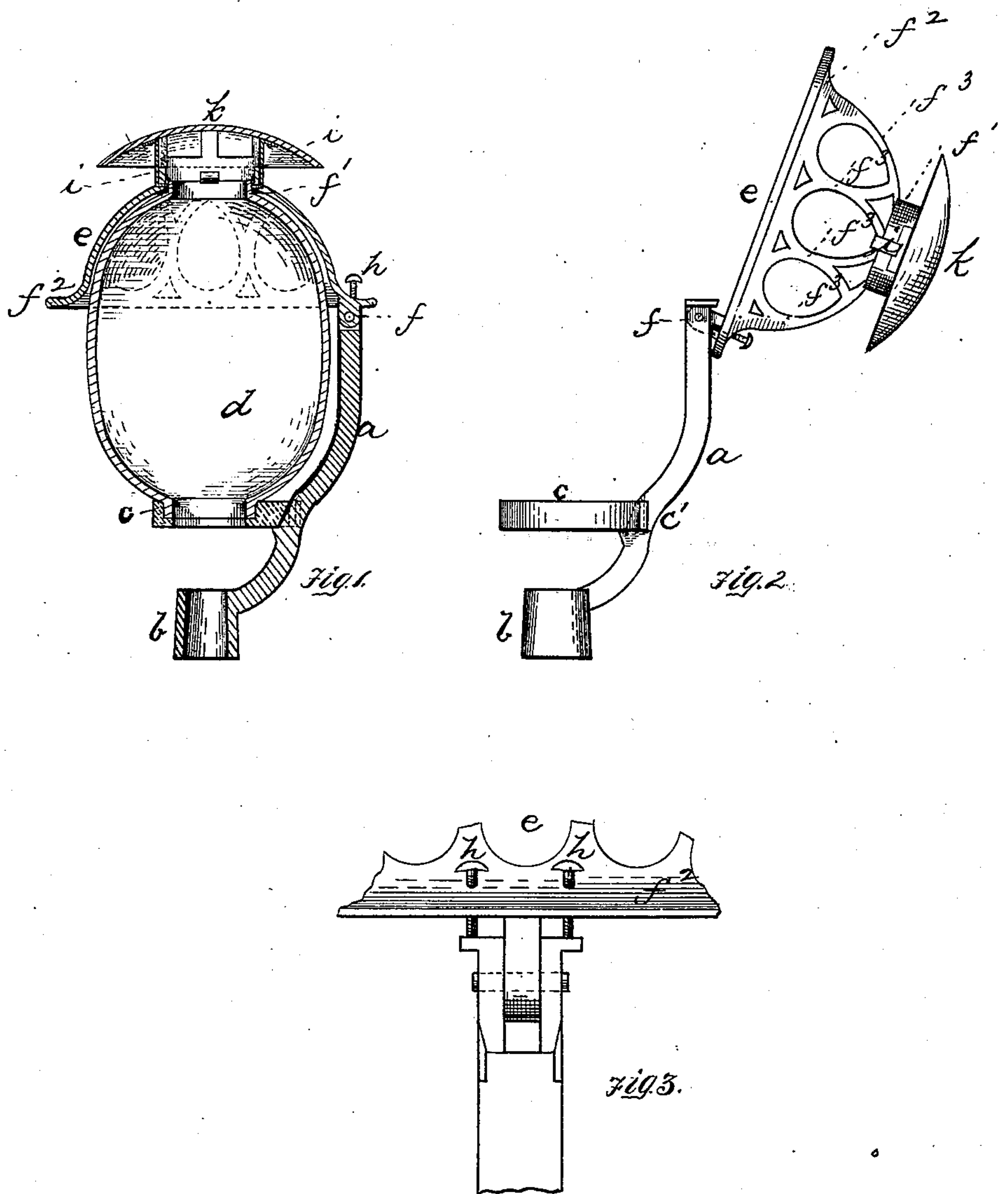


J. IRWIN.
Street-Lamps.

No. 206,573.

Patented July 30, 1878.



Witnesses.
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UNITED STATES PATENT OFFICE.

JAMES IRWIN, OF ALLEGHENY, PENNSYLVANIA.

IMPROVEMENT IN STREET-LAMPS.

Specification forming part of Letters Patent No. **206,573**, dated July 30, 1878; application filed July 13, 1878.

To all whom it may concern:

Be it known that I, JAMES IRWIN, of Allegheny city, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Street-Lamps; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a central section of a street-lamp embodying my invention. Fig. 2 is a view of the frame, the cap having been turned up and the globe removed. Fig. 3 is an enlarged sectional view, showing the method of adjusting the globe frame or cap.

Like letter refer to like parts wherever they occur.

My invention relates to the construction of street-lamps, such as are employed with gas, gasoline, or oil; and consists, first, in forming the hinged cap or globe-frame in a single slotted casting, whereby a cheap, serviceable, and effective lamp is obtained; and, secondly, in combining with the globe-frame and standard one or more set-screws, whereby the position of the globe-frame or cap can be adjusted at will.

Heretofore the construction of street-lamps has been more or less expensive and complicated. The cap or globe-frames have in general been formed of solid sheet metal, either struck or spun into shape, and double standards have been employed to support the cap, preserve its adjustment, and prevent it from sagging. Where a single standard has heretofore been employed a complicated vertical adjustment has usually been used to suspend the cap from its center, and thus correct the sagging thereof.

The object of the present invention is to reduce the cost of manufacture, simplify the construction, preserve the symmetry, and increase the serviceability of street-lamps.

I will now proceed to describe my invention, so that others skilled in the art to which it appertains may apply the same.

In the drawing, *a* indicates the bent or curved standard, provided at its base with a ring or collar, *b*, adapted to fit a post, bracket, or other suitable support. *c* indicates the base-ring for the support of the globe *d*. This ring is flanged or otherwise properly constructed to retain the base of the globe, and may be secured to the standard *a* either detachably by dovetailed flanges, or, if preferred, permanently by a strap, *c'*, as shown.

e indicates the globe-frame or cap, which is pivoted or hinged to the upper end of standard *a* at *f*, so that it can be turned up and back to remove globe *d*. As this globe-frame *e* has but a single support, which is at one side thereof, there is always a tendency of the frame to sag, and this sagging of the frame is frequently augmented by slight imperfections in the hinge-connection, to correct which I provide one or more set-screws, *h*, preferably two, which pass through frame *e* at a point near the hinge and bear upon the end of standard *a* or against lugs thereon. By manipulating the set-screws *h* the frame *e* can always be adjusted in a horizontal plane, and all sagging corrected.

In order to obtain a cheaply-constructed, rigid, light, and serviceable globe-frame, *e*, of general applicability to street-lamps, but especially adapted to single standards, I cast the same from suitable metal, usually iron, and in form of a slotted cap or cover—that is to say, by preference, with the top ring, *f*¹, and bottom ring, *f*², joined by bars *f*³, which form gives the required strength, and does not materially obstruct the light.

k indicates the cowl, (or cap,) which is usually formed of sheet metal and secured to the upper ring, *f*¹, of the globe-frame by short strips *i*.

The globe *d* is of oval shape and extends up into the globe-frame *e*, by which it is sustained and protected.

It is evident that the set-screw adjustment will be equally effective with the sheet-metal cap, and I do not wish to be understood as limiting it to the specific device described.

The advantages of my devices are lightness, strength, durability, simplicity, and cheapness.

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

1. The slotted cast-metal cap or globe-frame for street-lamps, substantially as specified.
2. The combination, in a street-lamp, of the

standard, the hinged cap or globe-frame, and the set screw or screws for adjusting the cap, substantially as specified.

In testimony whereof I, the said JAMES IRWIN, have hereunto set my hand.

JAMES IRWIN.

Witnesses:

JNO. K. SMITH,

R. H. WHITTLESEY.