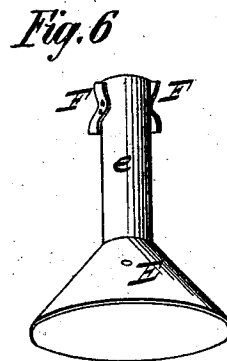
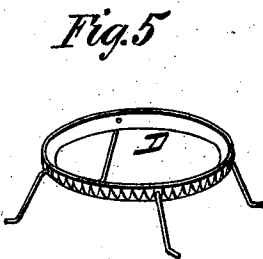
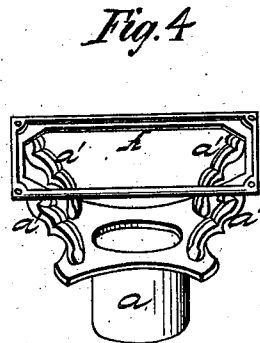
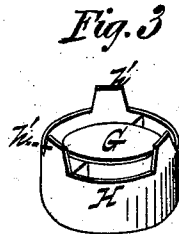
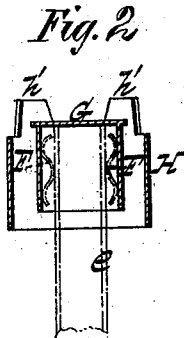
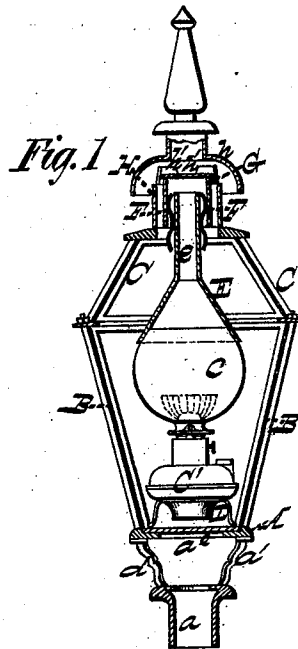


P. S. UNDERHILL.
STREET-LAMP.

No. 173,087.

Patented Feb. 1, 1876.



Witnesses:
J. M. Foster
W. B. Smith

Inventor:
Thomas S. Underhill
Edson & Sons
Atty

UNITED STATES PATENT OFFICE.

PHINEAS S. UNDERHILL, OF FORT WAYNE, INDIANA.

IMPROVEMENT IN STREET-LAMPS.

Specification forming part of Letters Patent No. **173,087**, dated February 1, 1876; application filed December 30, 1875.

To all whom it may concern:

Be it known that I, PHINEAS S. UNDERHILL, of Fort Wayne, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in Street-Lamps; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 is a vertical section of a street-lamp embodying my improvement; and Figs. 2, 3, 4, and 5 are detached views of the component parts of the same.

Corresponding parts in the several figures are denoted by like letters.

This invention relates to a certain improvement in street-lamps; and it consists in providing the globe-cone, within the tumbler of the dome of the surrounding portion or lantern, with springs to retain the cone in position upon the globe and in the said tumbler, and by which to suspend the said cone when detached from the globe, &c., substantially as hereinafter more fully set forth.

In the annexed drawing, the lantern portion of my lamp consists of the open bottom A, or cast-iron frame supported upon and united to the socket *a*, to fit upon the lamp-post, by the legs *a'* *a'* and the rods B B, uniting the said bottom or frame to a conical frame, C, preferably made of wrought-iron, which rods and latter-mentioned frame may be bound with tin to form a means of attachment thereto of the glass. The rods B B are secured in place by nuts, &c. In the open bottom A may be inserted glass, *a*², to emit rays of light directly downward, the lamp C', supported upon the frame D, standing thereon. Fitting upon the globe *c* of the lamp C' is the cone E, having

the tube or chimney *e*, to which are supplied compound or double-acting springs F F. The upper arms of these springs press against the inner circumference of the tumbler or cap G, when the cone E is down upon the globe *c*, and thus secure it in position upon the globe, and at the same time allow it to slightly yield in detaching or removing the globe from the lamp. When the globe-cone E is elevated or lifted from off the globe the lower arms of the springs F F will also press against the inner surface of the tumbler or cap G, the joint pressure of the arms securely retaining the said cone in an elevated position. By the use of these springs the tumbler or cap G, up into which the tube or chimney of the cone E projects, and, consequently, the soot, &c., from the flame of the lamp accumulate, can also be cleaned by simply removing the globe *c* and rotating the cone E, causing its springs to scrape and remove the adhering soot, &c., from the inner side of the tumbler or cap. The tumbler or cap G is secured in the cylinder H of the dome, and it (the cylinder) to the inner or under side of an overhanging portion, *h*, of the dome by the projections *h'* *h'*, to permit of the ingress of air to aid combustion, and the egress of smoke, &c.

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

The globe-cone E, having the springs F F, in combination with the globe *c* and tumbler or cap G, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

PHINEAS S. UNDERHILL.

Witnesses:

HOMER C. HARTMAN,
WM. M. THOMAS.