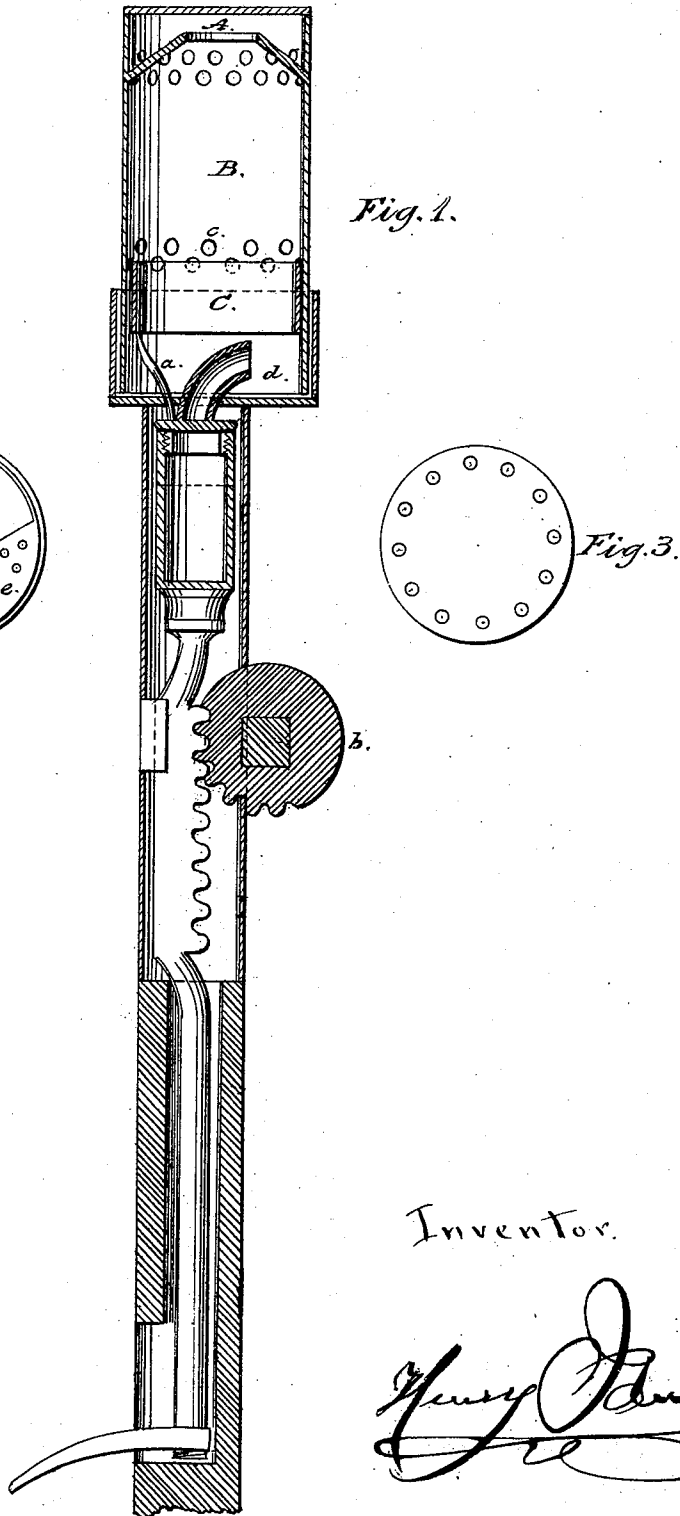


H. IDEN.

Lamp-Lighting Apparatus.

No. 169,173.

Patented Oct. 26, 1875.



Witnesses

J. B. White
A. T. Welch

Inventor.

H. Iden

UNITED STATES PATENT OFFICE.

HENRY IDEN, OF NEW YORK, N. Y.

IMPROVEMENT IN LAMP-LIGHTING APPARATUS.

Specification forming part of Letters Patent No. **169,173**, dated October 26, 1875; application filed March 27, 1875.

To all whom it may concern:

Be it known that I, HENRY IDEN, of the city, county, and State of New York, have invented an Improvement in Lamp-Lighting Apparatus, of which the following is a specification:

The object of my invention is to make such improvements in lamp-lighting apparatus (of Letters Patent No. 130,000, dated July 30, 1872,) as practical experience has demonstrated to be an absolute necessity. It was found impracticable to carry said lamp-lighting apparatus in a high wind without the light becoming extinguished. It was also found that in dark nights it was almost, if not quite, impossible to find the stop-cock on lamp-post in order that the key or wrench might be applied to open the same and light the gas.

These defects have all been fully overcome, as will more fully appear in the accompanying specification.

In the drawings, Figure 1 represents a longitudinal vertical section of the lamp-lighting apparatus; Fig. 2, a plan of the bottom of same; and Fig. 3, a plan of the top of same.

A is a deflector placed near the top of lamp-cover B to prevent currents of air entering at top. C is a short cylinder attached to the upper end of rod *a*. When the stop-cock of gas-burner is opened by the key *b* the cylinder

C is moved upward, uncovering the holes *c*. The gas being lighted, the cylinder is returned to its place, thus preventing the access of air at that point. D is an opening in bottom of lamp, having a suitable-shaped glass inserted in same. This opening allows sufficient light from the lamp *d* to be thrown on the key *b* to enable it to be applied to stop-cock of street-lamps in the darkest nights, thus entirely obviating the very great delay hitherto experienced in all lamp-lighting apparatus. *ee* are oblique holes in the bottom of lamp. These holes are for the purpose of supplying air to lamp to support combustion, and are bored at an angle, so that the current of air from same cannot strike the light and extinguish same.

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

1. The deflector A and illuminated base D, combined substantially as described, and for the purpose set forth.

2. The combination of the deflector A, illuminated base D, oblique holes *ee*, and movable cylinder C, substantially as described and shown, and for the purpose set forth.

HENRY IDEN.

Witnesses:

A. T. WELSH,
FREDERIC R. NOYES.