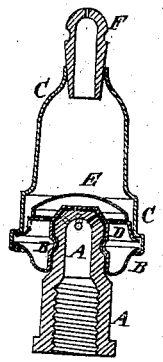
C. ROYLE.

GAS-BURNER.

No. 182,386. Patented Sept. 19, 1876.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES ROYLE, OF NEW YORK, N. Y.

IMPROVEMENT IN GAS-BURNERS.

Specification forming part of Letters Patent No. **182,386**, dated September 19, 1876; application filed September 2, 1876.

To all whom it may concern:

Be it known that I, CHARLES ROYLE, of the city, county, and State of New York, have invented a new and Improved Gas-Burner, of which the following is a specification:

The figure is a vertical section of my improved gas-burner.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved gas-burner, which shall be so constructed that it may be adjusted to regulate the flow of the gas, and consequently the light from the outside, and without its being necessary to remove any part of the burner for this purpose.

The invention consists in the cap spun in to fit upon the neck and top of the base, having holes formed in its upper part corresponding in number and position with the holes through the said base, and having its lower part spun outward to receive the cover and the ring-plate, and to serve as a handle for adjusting it, as hereinafter fully described.

A is the lower part or base of the burner, which has a screw-thread cut in the inner surface of its lower end to screw upon the end of the gas-pipe. The upper end of the base A is closed, and is made with a flat top and beveled edges, and through said beveled edges are formed two or more inclined holes leading into the interior of said base. Around the upper part of the base A is formed a ring groove or neck, into which is spun the upper part of a tube, B. The upper edge of the tube B is spun in to fit upon the bevel of the top of the base A, and has holes formed through it corresponding in number and position with the holes in the said top, so that by turning the said tube the holes in the top of the base A may be partly or fully closed to regulate or prevent the flow of the gas. The lower part of the tube B is spun outward and upward, and to its edge is seamed the lower edge of the cover C, and the outer edge of the ring-plate D. The ring-plate D projects upward and inward to form a seat for the plate E, which is made in the form of an inverted saucer, and is designed to check or impede the escape of the gas, so that it may escape through the tip F regularly, and may burn without flicker. The ring-plate D serves also as a guard to prevent the check-plate E from getting out of position.

With this construction the cap or adjusting-plate B may be turned to partially or wholly close the holes through the top of the base A from the outside of the burner by taking hold of the outer part or flange of the said cap B.

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

The cap B spun in to fit upon the neck and top of the base A, having holes formed in its upper part corresponding in number and position with the holes through the said base, and having its lower part spun outward to receive the cover C and the ring-plate D, and to serve as a handle for adjusting it, substantially as herein shown and described.

CHARLES ROYLE.

Witnesses:

JAMES T. GRAHAM,

C. SEGDWICK.