E. A. HILL.

ELECTRICAL GAS-BURNERS.

No. 195,358. Patented Sept. 18, 1877.

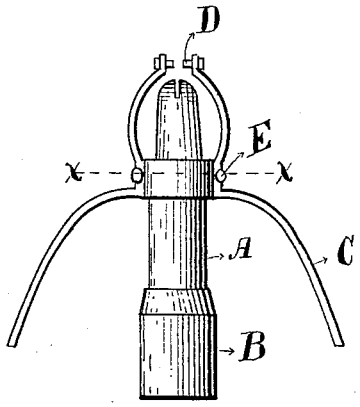

Fig. 1.

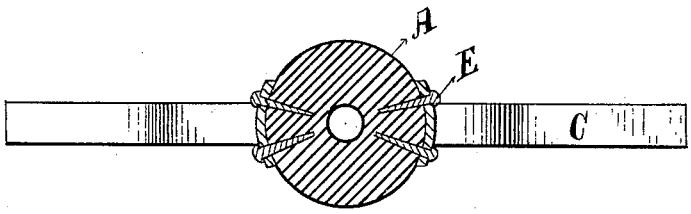

Fig. 2.

Attest.

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EDWARD A. HILL, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN ELECTRICAL GAS-BURNERS.

Specification forming part of Letters Patent No. **195,358**, dated September 18, 1877; application filed March 6, 1877.

To all whom it may concern:

Be it known that I, EDWARD A. HILL, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Electrical Gas-Burners, of which the following is a description, reference being had to the accompanying drawings, in which—

Figure 1 represents a side elevation of my gas-burner, and Fig. 2 an enlarged transverse sectional view, taken at the line *x x*, Fig. 1.

My invention consists in making the upper part A of the burner of a non-conducting material, and attaching thereto the electrical conductors, as hereinafter described.

In the accompanying drawings, A represents the upper part of the burner, made of any well-known non-conducting material. I preferably make it of soap-stone. It should be made of sufficient length and size to receive the attachments of the conducting-strips and support them. B is a metal socket, which receives the non-conducting gas-burner A, and it also has an interior screw-thread, by which it is secured to the ordinary gas-fixtures. C are metal strips, to which the electrical wires are attached, and which carry the points D, arranged over the burner for lighting the gas. E are cylindrical-headed pins, which fasten the strips C to the non-conducting burners A. These pins extend radially into the burner, and are inserted in holes which I drill into the non-conducting burner when I use soap-stone before the burner is hardened.

I make the burner A large, as shown, at the points where the attaching-pins E are inserted.

By this construction of my electrical burner I am enabled to complete the burner, with the conducting-strips attached, and the points adjusted at the factory, so that any one who can attach a common burner to a gas-fixture can attach it.

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

The burner-tip A, constructed of electrical non-conducting material, in combination with the independent conducting-plates C and separate attaching-pins E, whereby the plates are secured to the tip, substantially as and for the purpose set forth.

EDWARD A. HILL.

Witnesses:

L. A. BUNTING,

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