

(No Model.)

C. H. HINDS.
ELECTRIC GAS BURNER.

No. 282,890.

Patented Aug. 7, 1883.

Fig. 1.

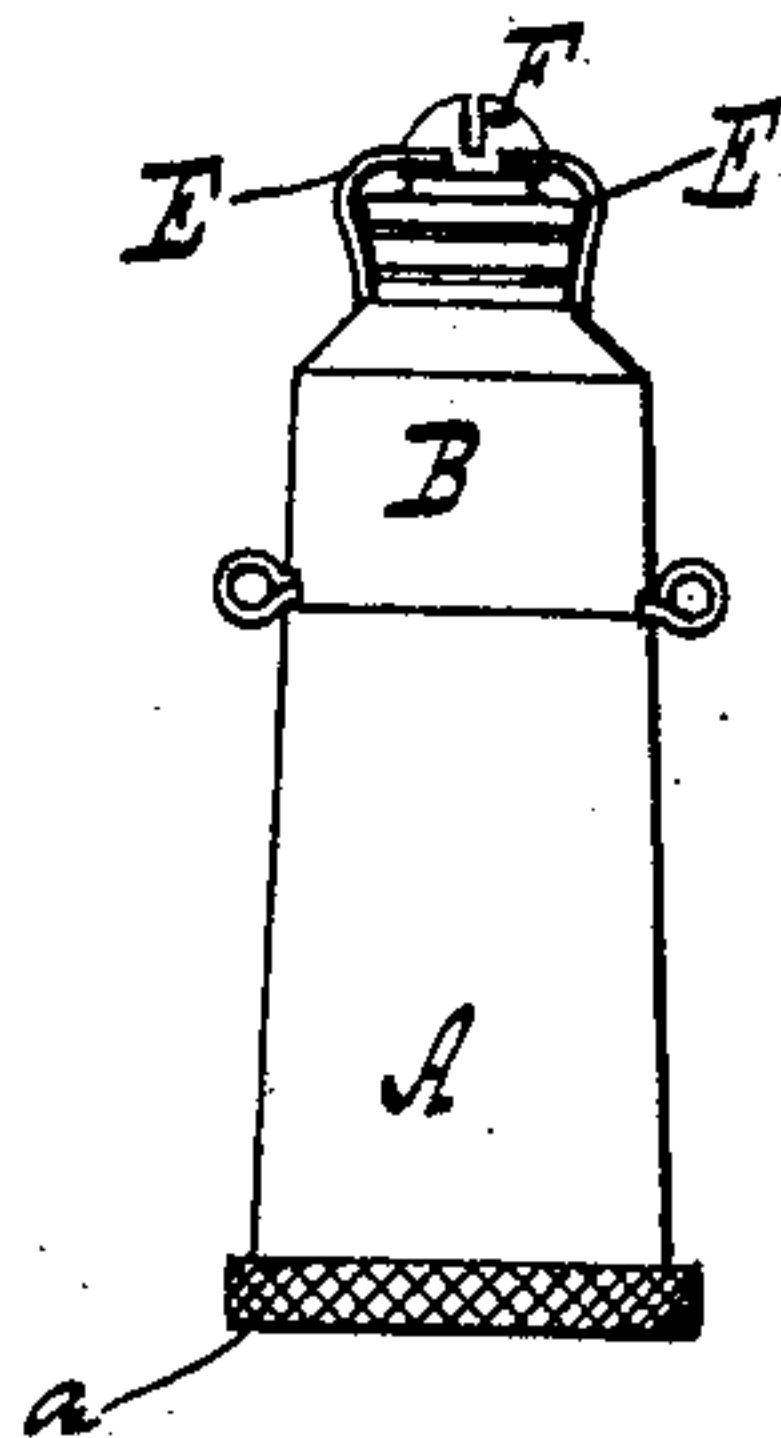


Fig. 2.

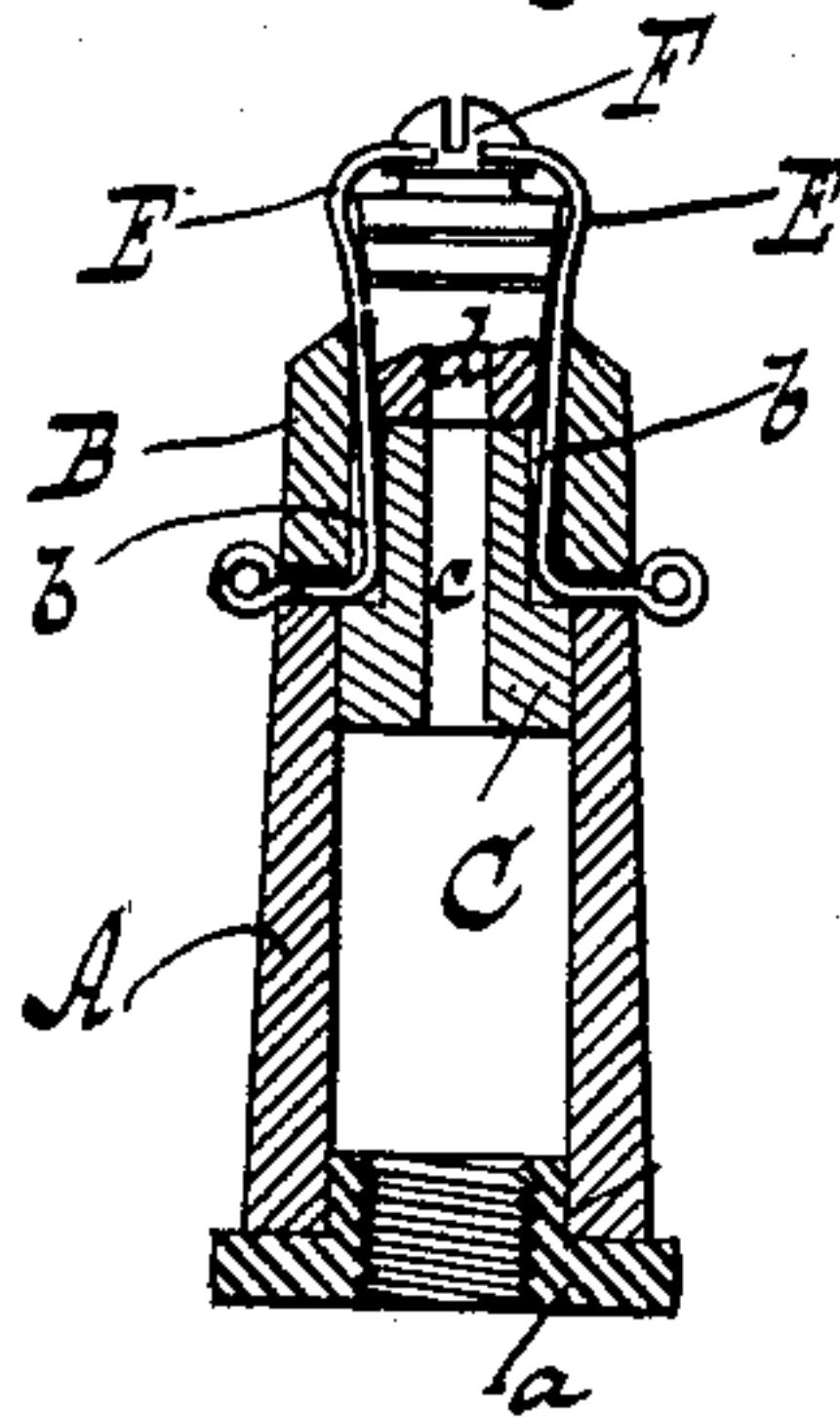
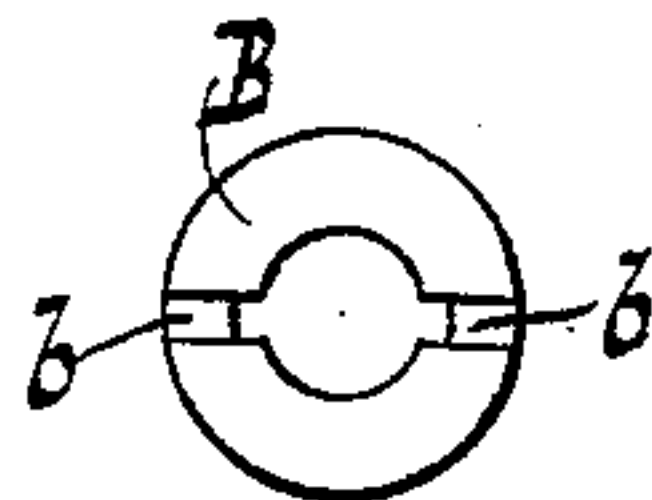


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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ELECTRIC GAS-BURNER.

SPECIFICATION forming part of Letters Patent No. 282,890, dated August 7, 1883.

Application filed May 9, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. HINDS, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Electric Gas-Burners, of which the following is a specification.

This invention relates to an electric gas-burner made of a non-conducting material in three sections, the lower section being provided with a metal fitting suitable for attachment to a gas-fixture, the upper section being provided with channels on the inside along its length and across the bottom end, and with a gas-tip, said channels being intended for the reception of the metallic electrodes, which convey the electricity to the required point, while the middle or section forms the connection between the upper and lower sections, and is provided with a gasway, from which the electrodes are excluded.

In the accompanying drawings, Figure 1 represents a side elevation. Fig. 2 is a longitudinal central section. Fig. 3 is an inverted plan of the upper section.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates the lower section of my gas-burner. B is its upper section, and C is the middle or connecting section. All these sections are made of a non-conducting material—such as glass, porcelain, or hard rubber; but I prefer to use porcelain or other vitreous material, which is not only a non-conductor, but also has the quality to resist the action of heat, so that it is not injuriously affected by the heat of the gas-flame. The lower section, A, is provided with a metal fitting, *a*, constructed for attachment to a gas-fixture. The upper section, B, is provided with two channels, *b b*, on its inside along its length and across its bottom edge, (see Figs. 2 and 3,) and into these channels are placed the electrodes E E.

F is the burner-tip, which is fitted into the outer end of the section B and firmly secured therein by means of cement, or otherwise. The middle section, C, is provided with a gasway, *c*. Its lower portion fits the upper end of the section A, and is secured therein by a suitable cement, and its upper portion extends up into the section B, and is secured therein by cement, its upper end being close to the inner end of the tip F, so that the gasway *d* of this tip forms a continuation of the gasway *c* in the middle section, C. The joint between the upper end of the section C and the lower end of the tip F is rendered gas-tight by cement, so that the electrodes are perfectly excluded from the gasways *c d*.

By the construction of the burner-body as above described, electrodes of a comparatively short length can be used, and a great saving in battery-power is effected. Furthermore, since the electrodes are excluded from the gasway the danger of igniting the gas in the interior of the burner is avoided.

What I claim as new, and desire to secure by Letters Patent, is—

An electric gas-burner made of a non-conducting material and consisting of three sections, A B C, the section A being provided with a metal fitting, *a*, the section B, which contains the tip F, being provided with channels *b b* for the reception of the electrodes E E, and the connecting-section C being provided with the gasway *c*, all connected substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

CHARLES H. HINDS. [L. S.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.