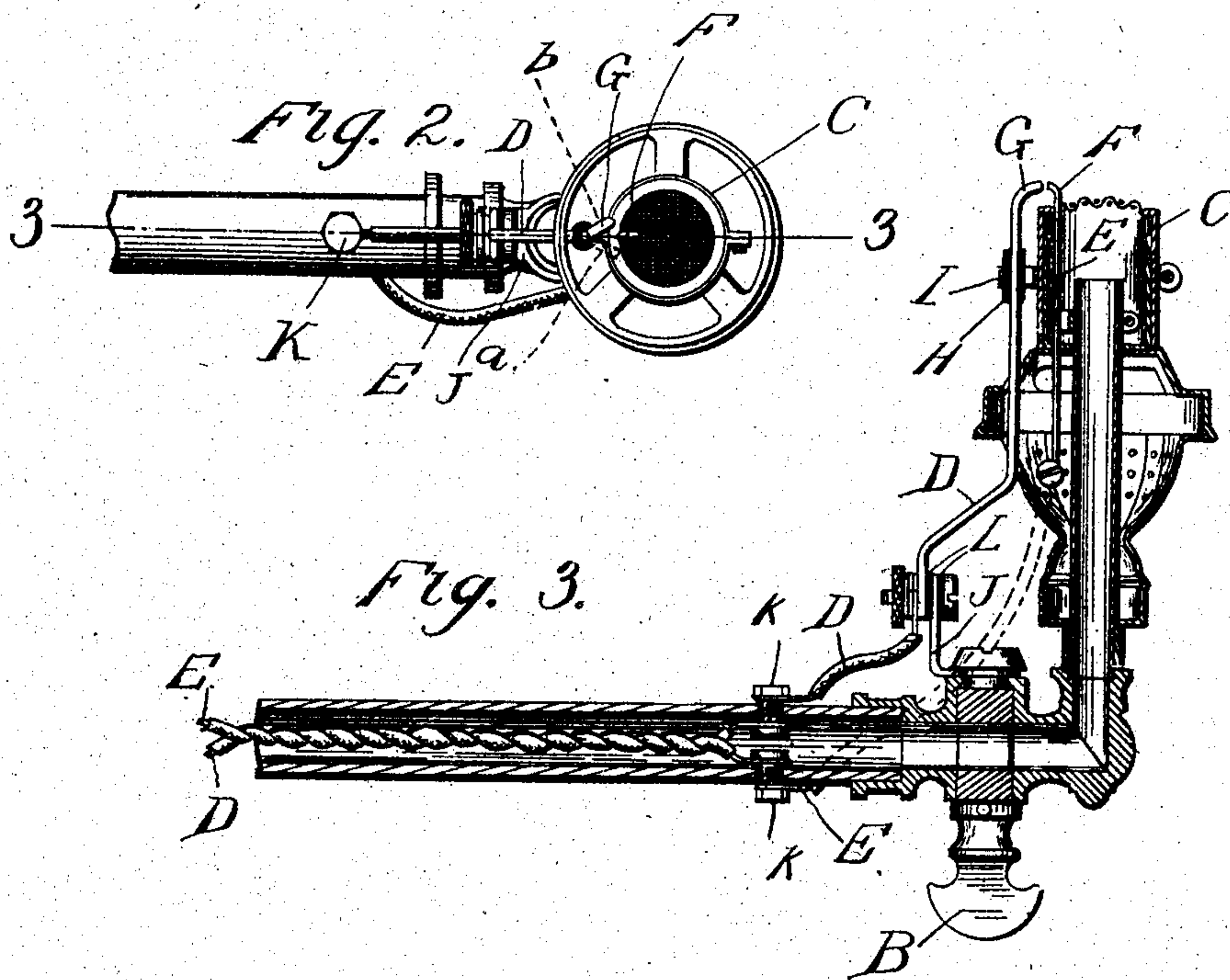
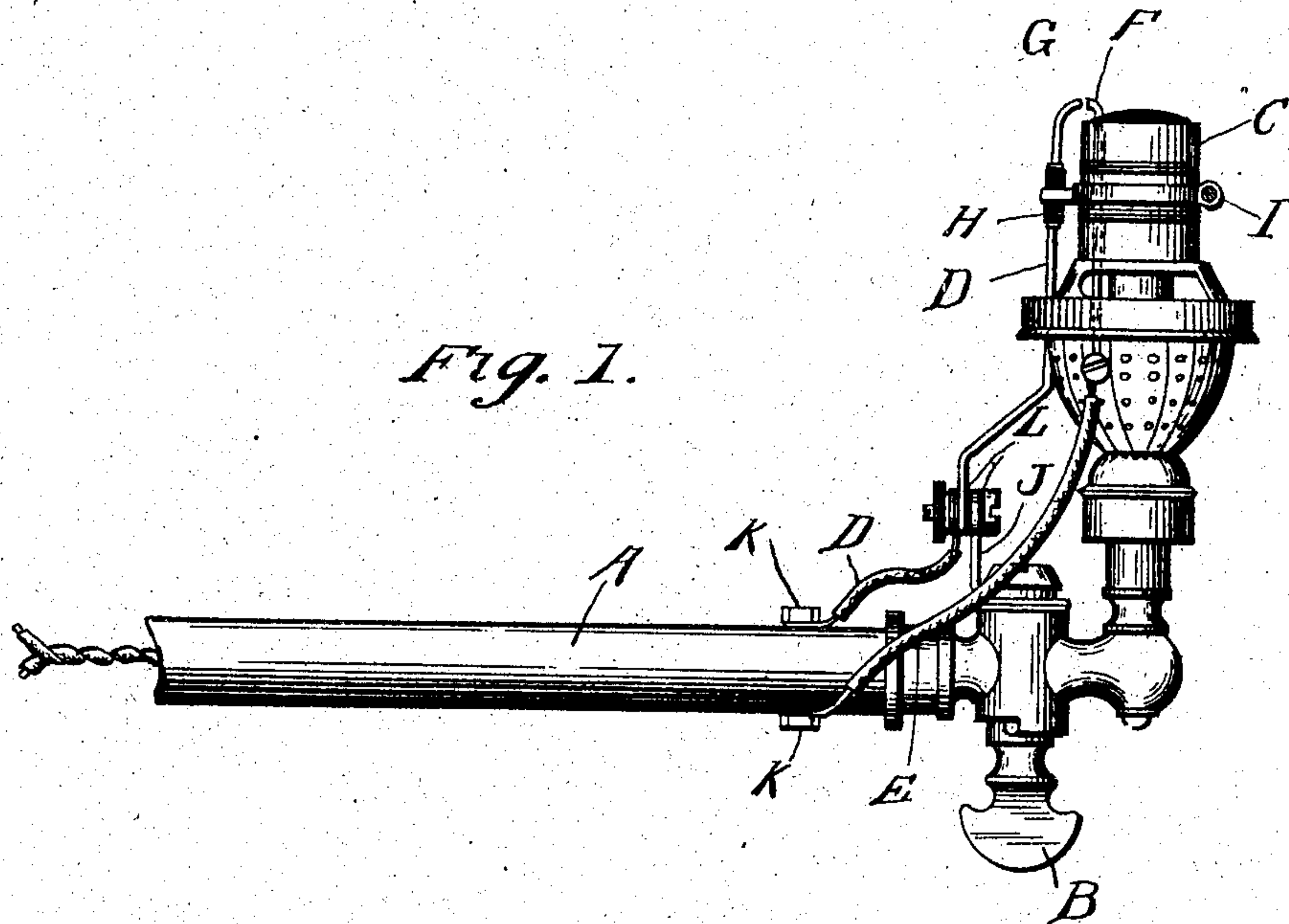


No. 796,343.

PATENTED AUG. 1, 1905.

J. MLADA.
ELECTRIC GAS LIGHTER
APPLICATION FILED JAN. 2, 1904.



Witnesses
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JOSEPH MLADA, OF MANITOWOC, WISCONSIN, ASSIGNOR OF ONE-FOURTH
TO ANTON MUELLER, OF MANITOWOC, WISCONSIN.

ELECTRIC GAS-LIGHTER.

No. 796,343.

Specification of Letters Patent.

Patented Aug. 1, 1905.

Application filed January 2, 1904. Serial No. 187,547.

To all whom it may concern:

Be it known that I, JOSEPH MLADA, a citizen of the United States, residing at Manitowoc, in the county of Manitowoc and State of Wisconsin, have invented a new and useful Electric Gas-Lighter, of which the following is a specification.

My invention relates to an electric gas-lighter which operates by turning the gas-cock which allows the gas to enter the burner for illumination or heating. I attain this object by a mechanism and electrical conduit, as illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the entire gas-burner as commonly in use to which my newly-invented device for lighting gas is connected; Fig. 2, a top view of the burner. Fig. 3 is a central longitudinal section as seen from the dotted line 3 3 on Fig. 2.

Similar letters refer to similar parts throughout the several views.

A is a gas-pipe leading to burner C, with a cock B, as commonly used. Electrical conductors D and E, connected to any electric generator, may pass through the inside of the said gas-pipe, as the drawings show, or placed outside, end in electrical poles G and F close above the burner. Pole F is made stationary in its position, while pole G is connected to gas-cock B by members J and L, of which L is a non-conductor, insulating conductor D from the metal parts of the burner. Conductor D passes through a non-conducting member H, clamped to burner by band I, allowing D to revolve with cock B.

When cock B is closed, pole G is in position *a*, Fig. 2, and no electric current is flowing; but if cock B is opened by turning same from position *a* toward *b*, Fig. 2, it will make an electrical contact with pole F after making an angle of forty-five degrees. In this position gas will flow through the burner, and in opening cock B farther—that is, turning it farther toward *b*—the electric contact between poles G and F will be broken, and

the electric spark emitting from the poles G and F will light the gas. When cock B is quite open, the electric circuit is broken and no current is flowing. It is apparent that only at the moment of contact of poles G and F a current is flowing.

Members K are insulating-plugs through which the electrical conductors or wires D and E pass from within the gas-pipe A.

This device can be attached to any gas-burner now in use either for light or heating.

I am aware that prior to my invention electric gas-lighting devices have been made. I therefore do not claim such broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

In an electric gas-lighter, the combination with a gas-fixture having a burner and a stop-cock therefor, of electric conductors D and E adapted to enter said gas-fixture near the burner and extend therein to the source of electric supply, insulating-plugs K adapted to insulate said conductors from said fixture, conductor D terminating at its upper end in a pole G and conductor E in a pole F, said conductor E being secured stationary to the burner while the conductor D is rotatably secured thereto, a band I surrounding the upper end of said burner adapted to dispose the pole G in juxtaposition to the pole F, an insulator H carried by said band through which said conductor D passes, said conductor being rotatable therein, and means to rotate said conductor comprising an L-shaped member J one end of which is fixedly secured to the cock B and has secured to its opposite end the conductor D whereby, when the cock is turned to release the flow of gas, the pole G will be brought into contact with the pole F and a spark produced to ignite the gas, said conductor being insulated from the member J by an insulating member L, as set forth.

JOSEPH MLADA.

Witnesses:

JOSEPHINE JOHNSON,
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