

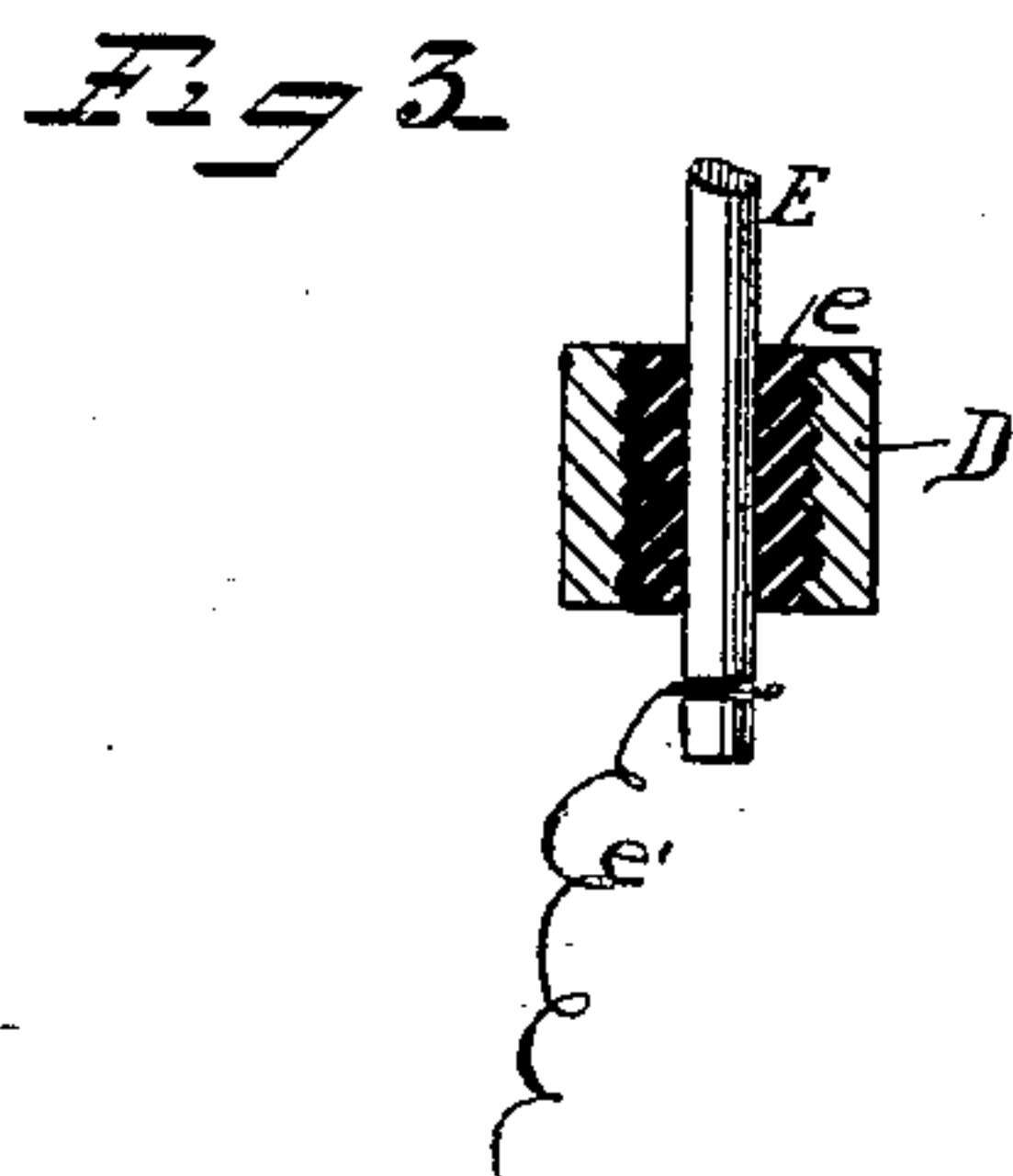
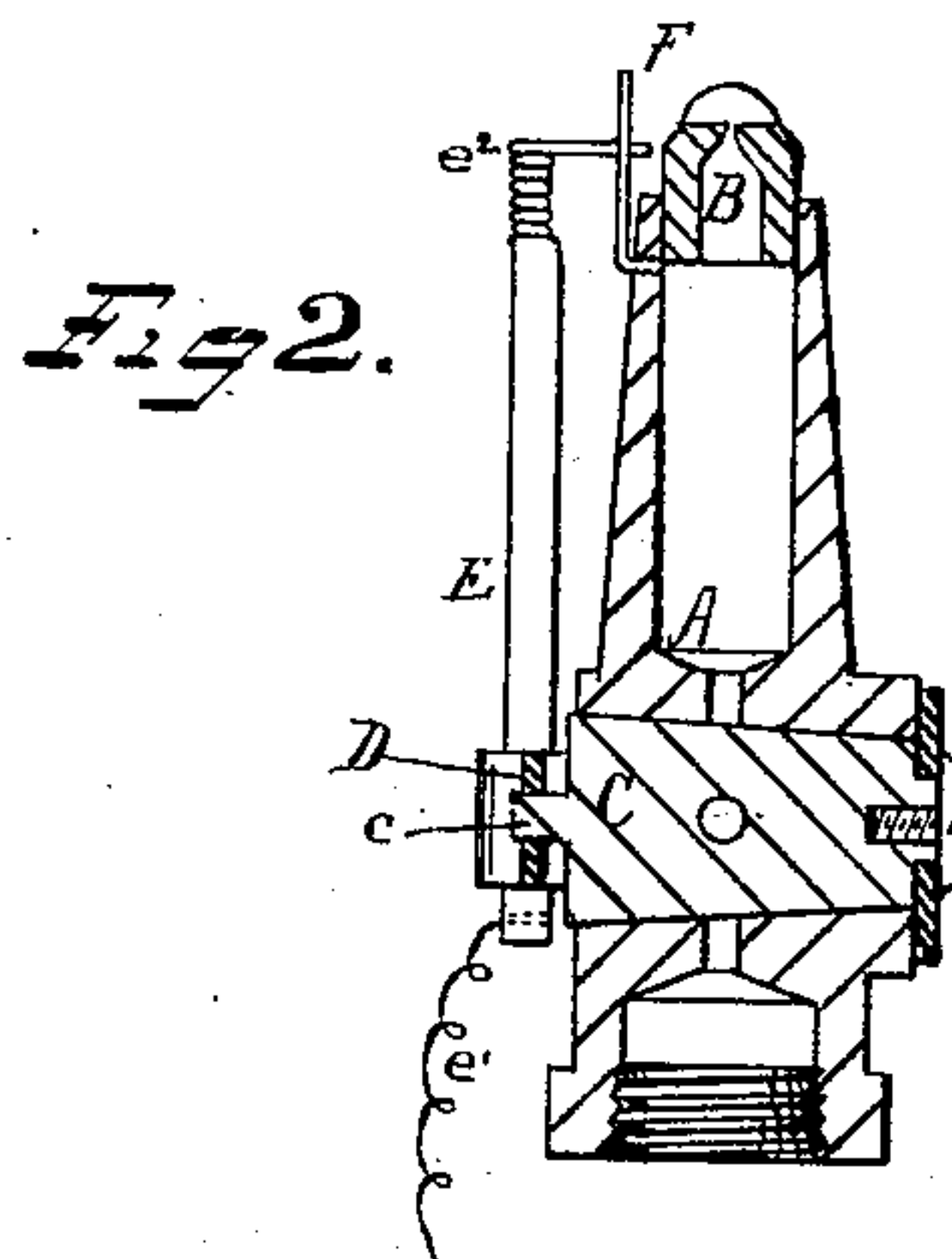
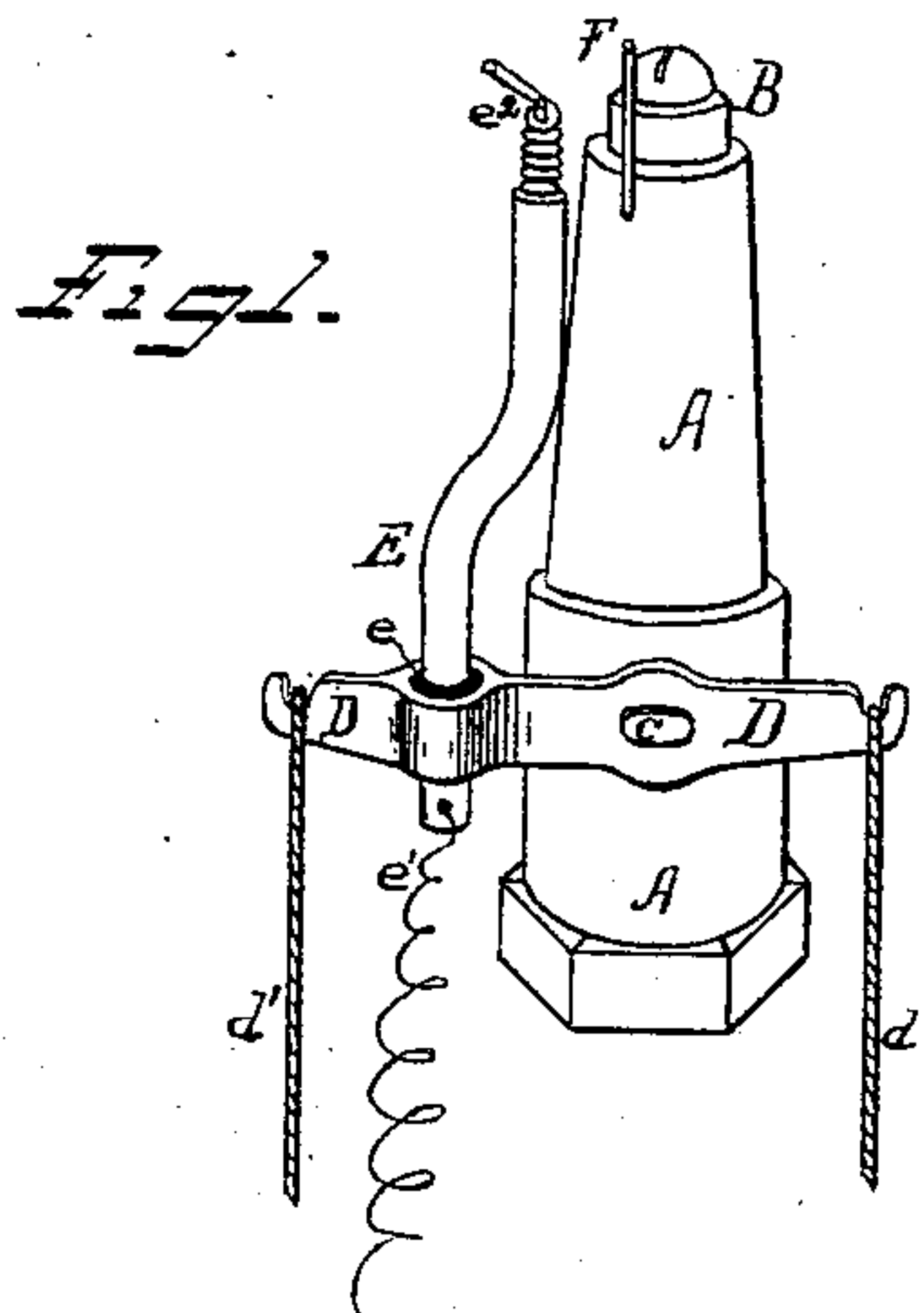
(No Model.)

J. B. ODELL.

DEVICE FOR LIGHTING GAS BY ELECTRICITY.

No. 277,053.

Patented May 8, 1883.



WITNESSES.  
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# UNITED STATES PATENT OFFICE.

JOHN B. ODELL, OF CHICAGO, ILLINOIS.

## DEVICE FOR LIGHTING GAS BY ELECTRICITY.

SPECIFICATION forming part of Letters Patent No. 277,053, dated May 8, 1883.

Application filed June 3, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN B. ODELL, of Chicago, Cook county, State of Illinois, have invented certain new and useful Improvements in Devices for Use in Lighting Gas by Electricity, of which the following is a specification.

This invention relates to devices for use in lighting gas-burners by electricity, and is designed to simplify, cheapen, and otherwise improve the present construction of such devices.

The nature of my improvement I will set forth hereinafter, and it will be understood by reference to the accompanying drawings, in connection with said description.

In the accompanying drawings, Figure 1 is a perspective view of a burner to which my present invention has been attached. Fig. 2 is a central vertical section of the same at right angles to Fig. 1. Fig. 3 is an enlarged detail, showing the manner of insulating the moving electrode.

Similar letters of reference indicate like parts throughout the drawings.

A represents the body or main shell of an ordinary gas-burner; B, the tip, and C the rotatable valve thereof. Upon an angular projection, *c*, of the valve is mounted a lever, D, by means whereof, through the depending cords *d* and *d'*, the valve is opened and closed at pleasure. In one of the arms of the lever D is secured a moving electrode, E. This electrode is surrounded by an annular insulator, *e*, of any suitable material, at the point where it is held at the lever, and by means of the wire *e'* is connected to a battery. At the up-

per end the electrode is provided with a piece of spring-wire, *e*<sup>2</sup>, one end whereof projects out laterally, as shown, toward the tip of the burner, so that when the lever is operated by the cord *d* for the purpose of turning on the gas said projecting point of wire comes in momentary contact with another piece of like wire, F, secured in the metal part of the burner, and forming the opposite pole, with the gas-pipe as the ground-connection. This latter piece of spring-wire may be threaded upon its bent end and secured in the burner thereby. The contact between the spring-points establishes the electric circuit and insures the flow of the current, by the breaking of which the gas is ignited. When the light is to be extinguished the lever is returned to its first position by the cord *d'*.

In the drawings the parts are shown with the valve in the closed position.

It will be seen that my invention is exceedingly simple and the device not likely to get out of order, and is therefore very durable.

I claim—

The combination, with a gas-burner, of the valve C, lever D, secured to said valve, cords *d* and *d'* for operating the same, insulating material *e*, movable electrode E, mounted on said lever, and provided with spring-contact *e*<sup>2</sup>, and electrode F, secured to the burner, all arranged and operating substantially as and for the purpose specified.

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Witnesses:

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