

No. 630,814.

Patented Aug. 8, 1899.

S. M. MEYER.
AUTOMATIC ELECTRICAL GAS LIGHTING DEVICE

(Application filed June 23, 1898.)

(No Model.)

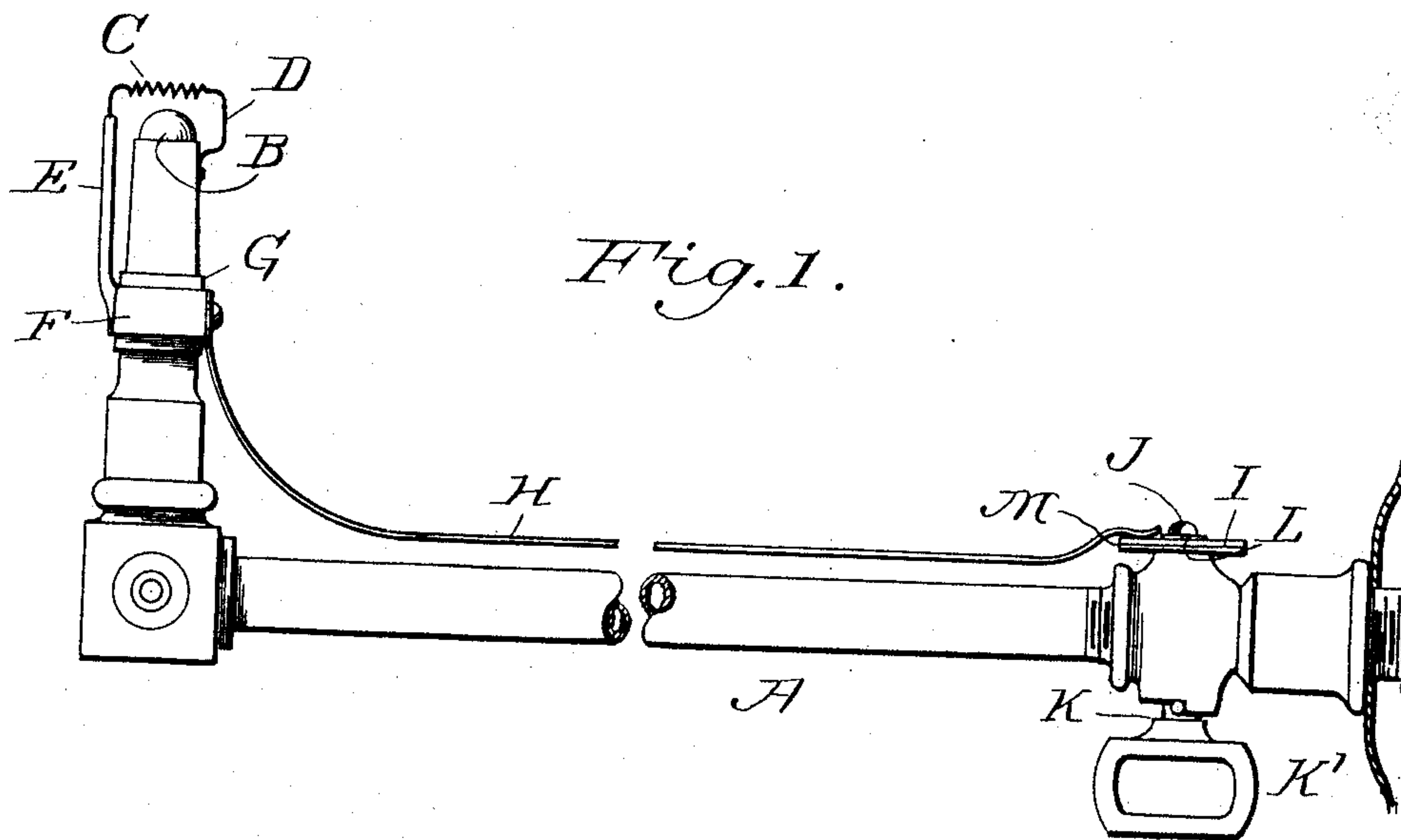


Fig. 1.

Fig. 4.

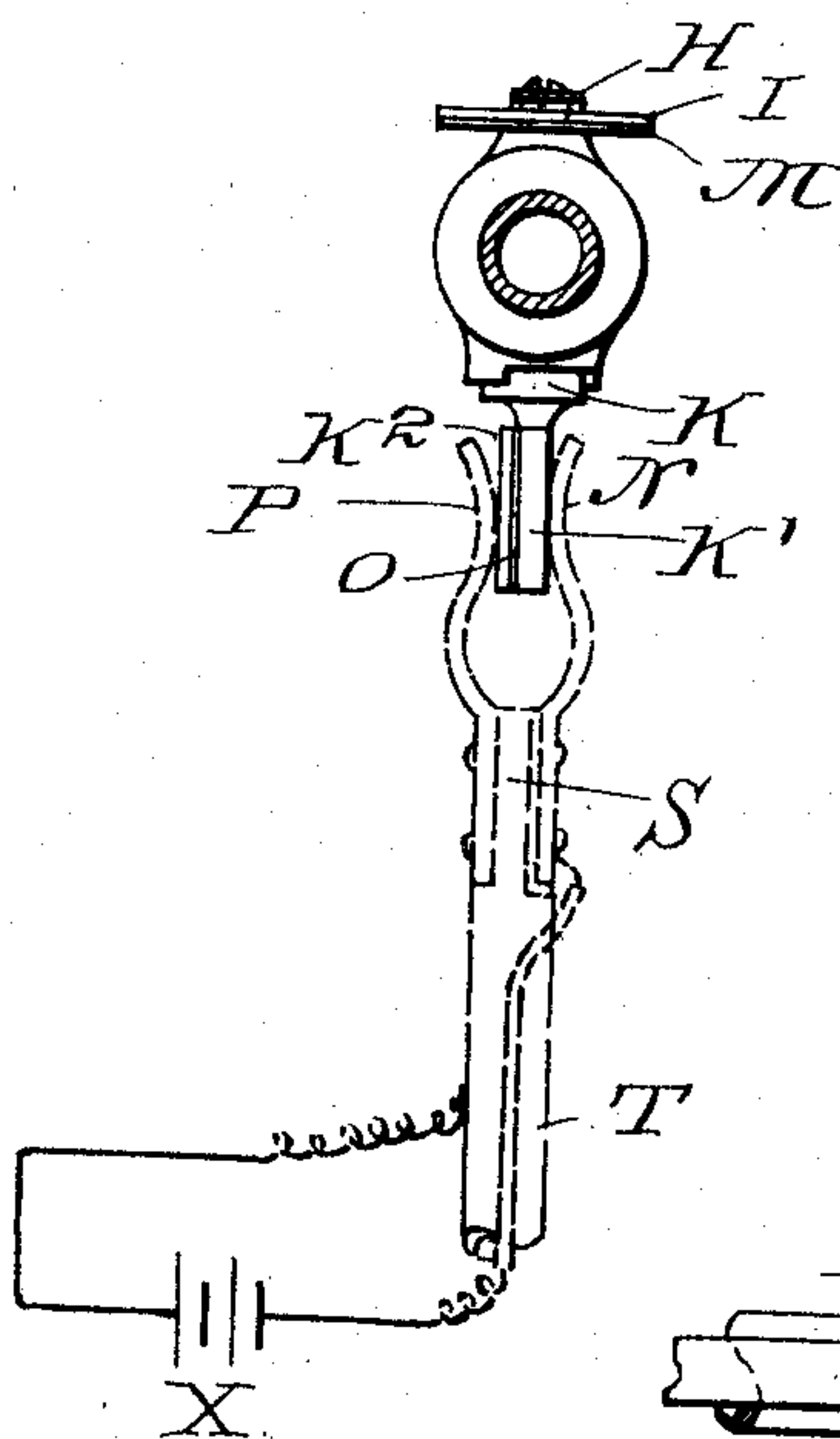


Fig. 3.

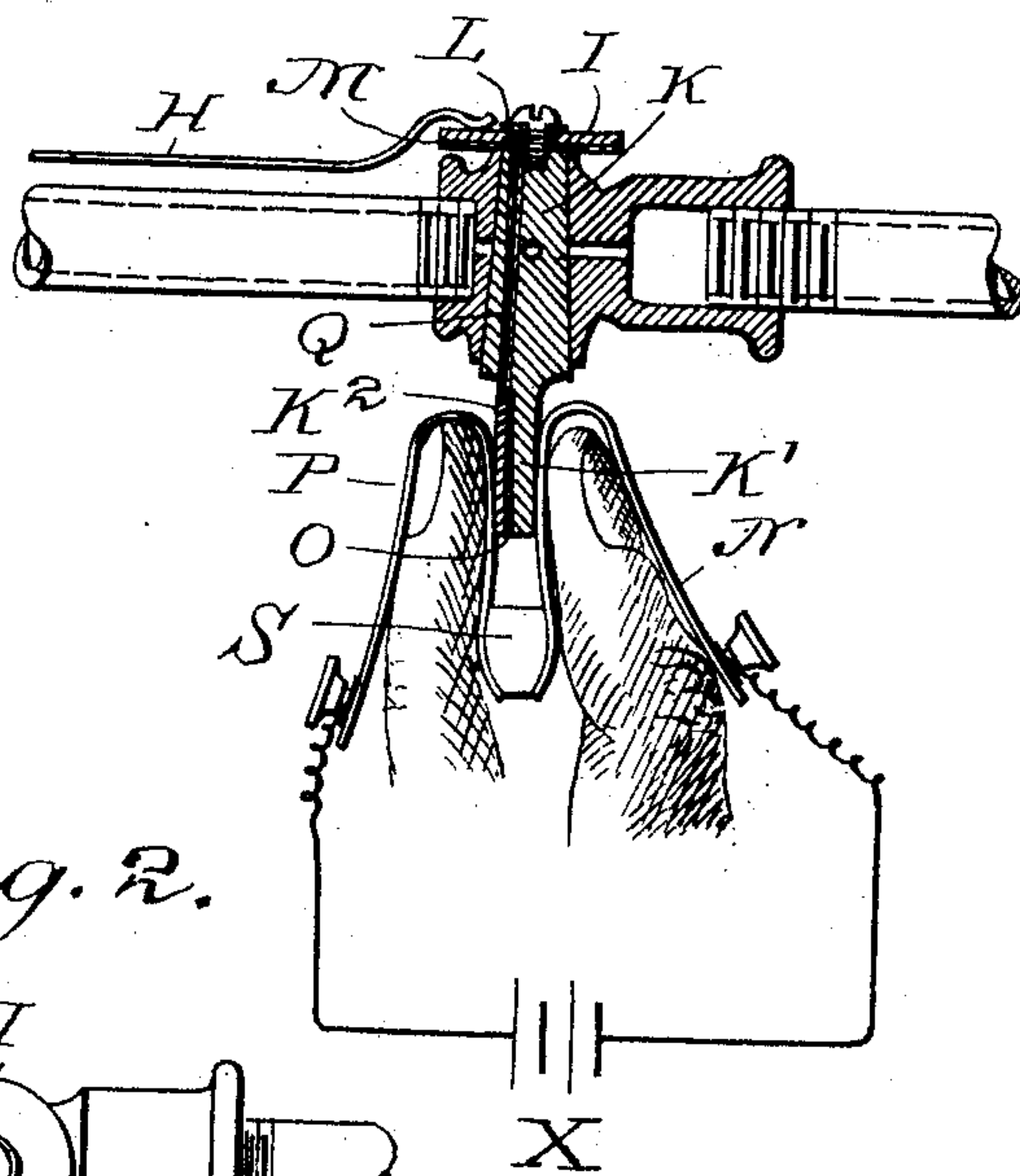
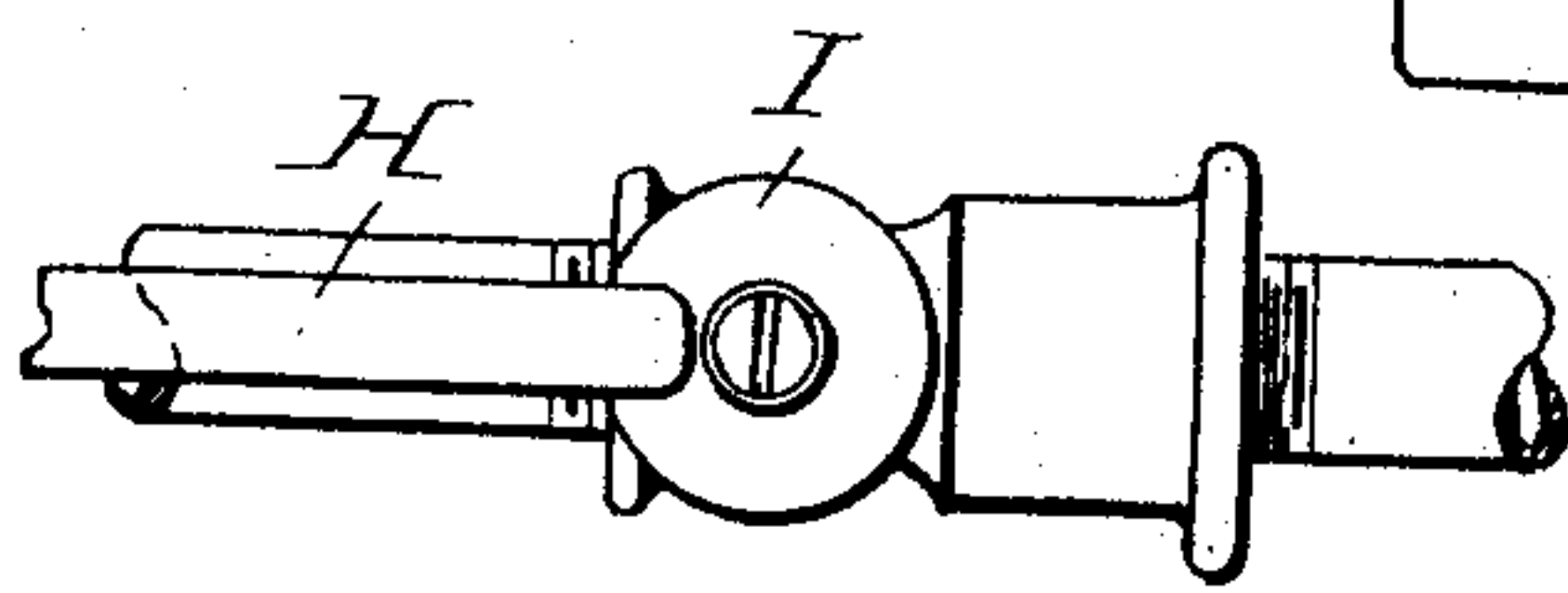


Fig. 2.



WITNESSES:

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AUTOMATIC ELECTRICAL GAS-LIGHTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 630,814, dated August 8, 1899.

Application filed June 23, 1898. Serial No. 684,262. (No model.)

To all whom it may concern:

Be it known that I, SVEND MARTIN MEYER, a citizen of Denmark, and a resident of the borough of Brooklyn, city of New York, State of New York, have invented a new and useful Improvement in Automatic Electrical Gas-Lighting Devices, of which the following is a specification.

The subject of this invention is a device whereby the act of turning on the gas is made to temporarily close an electric circuit and establish connection between a source of electricity and an igniting-coil located near the tip of the burner.

In the accompanying drawings, Figure 1 is a side elevation of a gas-bracket with my invention applied. Fig. 2 is a plan of the key portion of the same. Fig. 3 is a longitudinal section thereof, showing in elevation one form of portable electrical device for producing a current through the lighter through the medium of the gas-key. Fig. 4 is an elevation showing another form of electrical device for this purpose. Figs. 1 and 4 show the position of the key with the gas turned on, and Fig. 3 the position with the gas turned off.

A represents a gas-bracket, and B a burner of common form.

C is a lighting-coil supported above the burner-tip by wire standards D E, one of which, D, is in electrical connection with the metal portion of the burner. The other standard E is connected to a metal ring F, supported by the burner, but insulated therefrom by a band G of insulating material. The insulated ring F is connected by a plate-spring H with a disk I, mechanically attached by a screw J to the gas-key K, but insulated therefrom by a flanged bushing L, of insulating material, interposed between the disk I and screw J, and by a washer M, of insulating material, interposed between the disk I and key K. On one side of the thumb-head K' of the key by which it is turned is fixed a metal plate K², separated from the key by an insulating pad or sheet O, and the insulated plate K² is electrically connected to the insulated disk I by an insulated wire Q, passing up through a longitudinal perforation in the gas-key K.

From the above description it will be clearly understood that a pair of conductors P N, connected to the respective poles of a battery X or suitable source of electricity, when applied to the key-head K' and plate K², as shown in Figs. 3 and 4, will cause a current through the coil C, so as to render it incandescent and light the gas when it is turned on, and it is the purpose of my invention to effect this lighting automatically in the act of turning on the gas. The conductors P and N are electrically separated by an insulator S, which may form a simple mechanical connection between them in the form of the device shown in Fig. 3, where the said conductors are adapted for the reception of the thumb and finger, as shown, or they may form the head of a gas-turner T, as shown in Fig. 4.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The combination of the thumb-key K K', insulated plate K² attached thereto, an electric conductor having an incandescing section C and connected at its ends with the key K K' and insulated plate K² respectively and conducting-plates P and N adapted for prehension of the turning-key, making electrical connection with said key, and the insulated plate K² respectively and connected respectively with the poles of a suitable source of electricity X; substantially as set forth.

2. The combination of a gas-burner support A, burner B, gas-cock K K' insulated plates I and K² carried thereby, incandescing member C, mounted on the burner, suitable conductors D E F H connecting the respective ends of the incandescing member with the key K K' and its insulated plates I K², and gripping-plates P N, connected with the respective poles of a suitable source of electricity and adapted to make electrical connection with the key K K', and insulated plate K² in turning on the gas, as explained.

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Witnesses:

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