

(No Model.)

E. H. WRIGHT.
ELECTRIC GAS LIGHTER.

No. 316,428.

Patented Apr. 21, 1885.

Fig. 1.

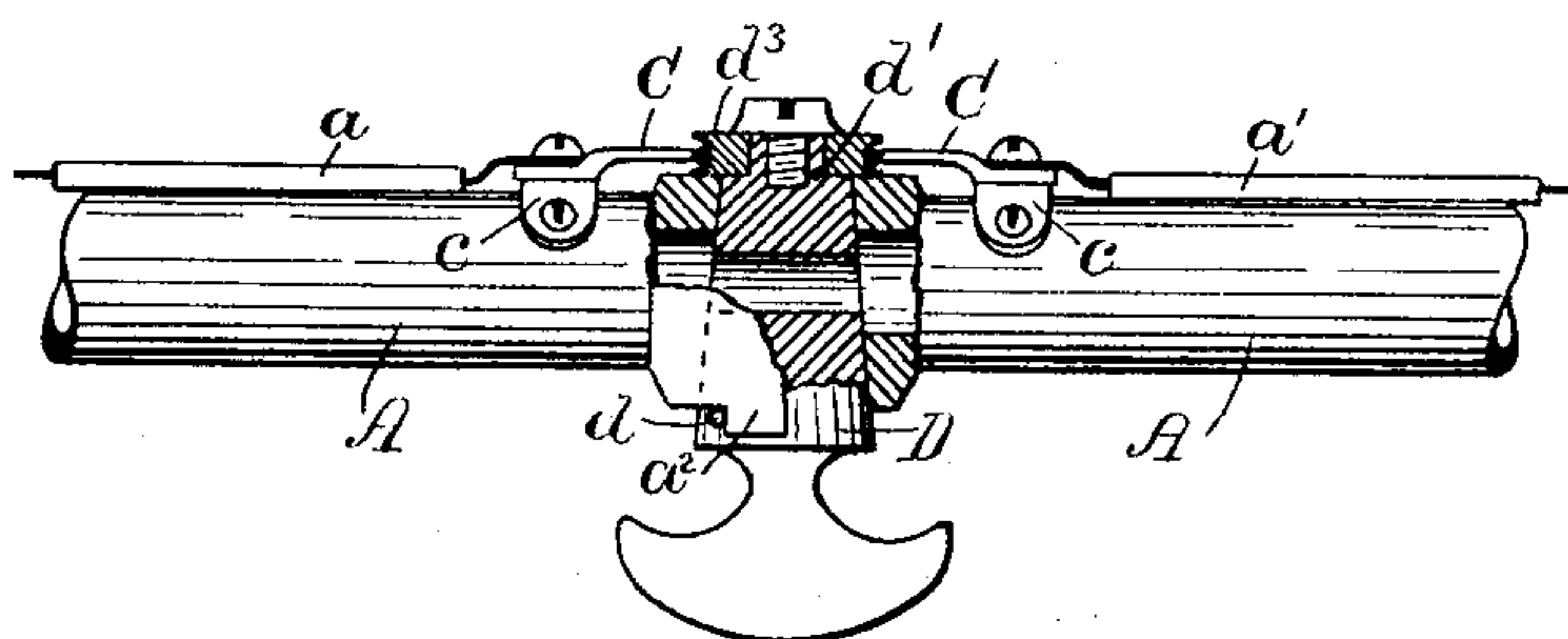


Fig. 2.

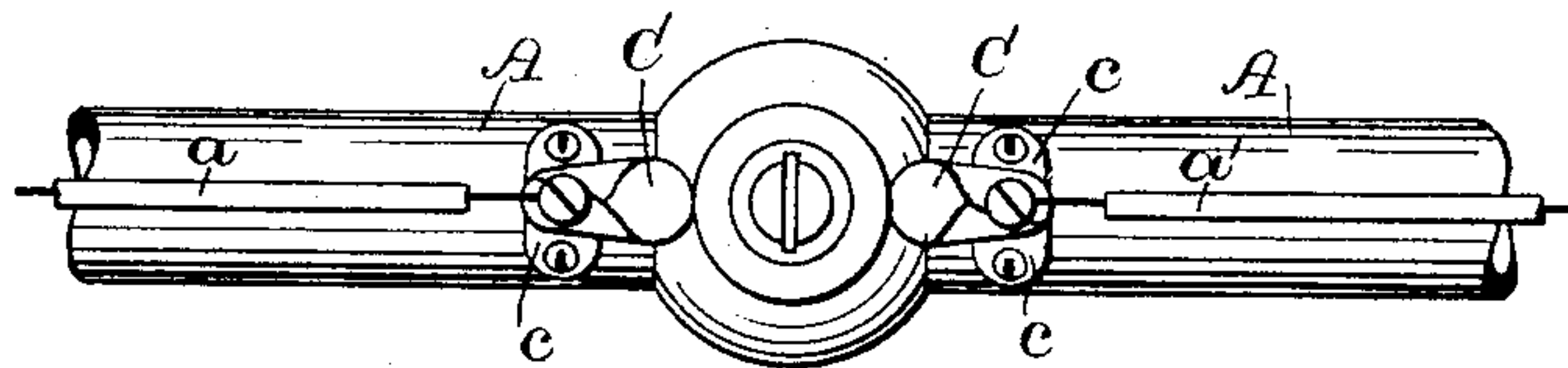


Fig. 3.

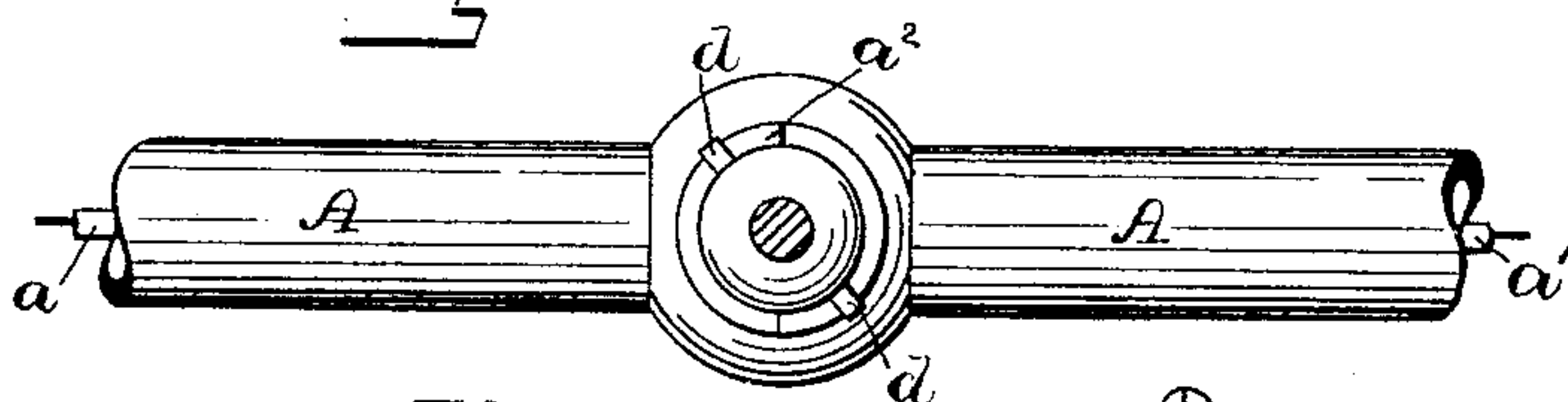


Fig. 4.

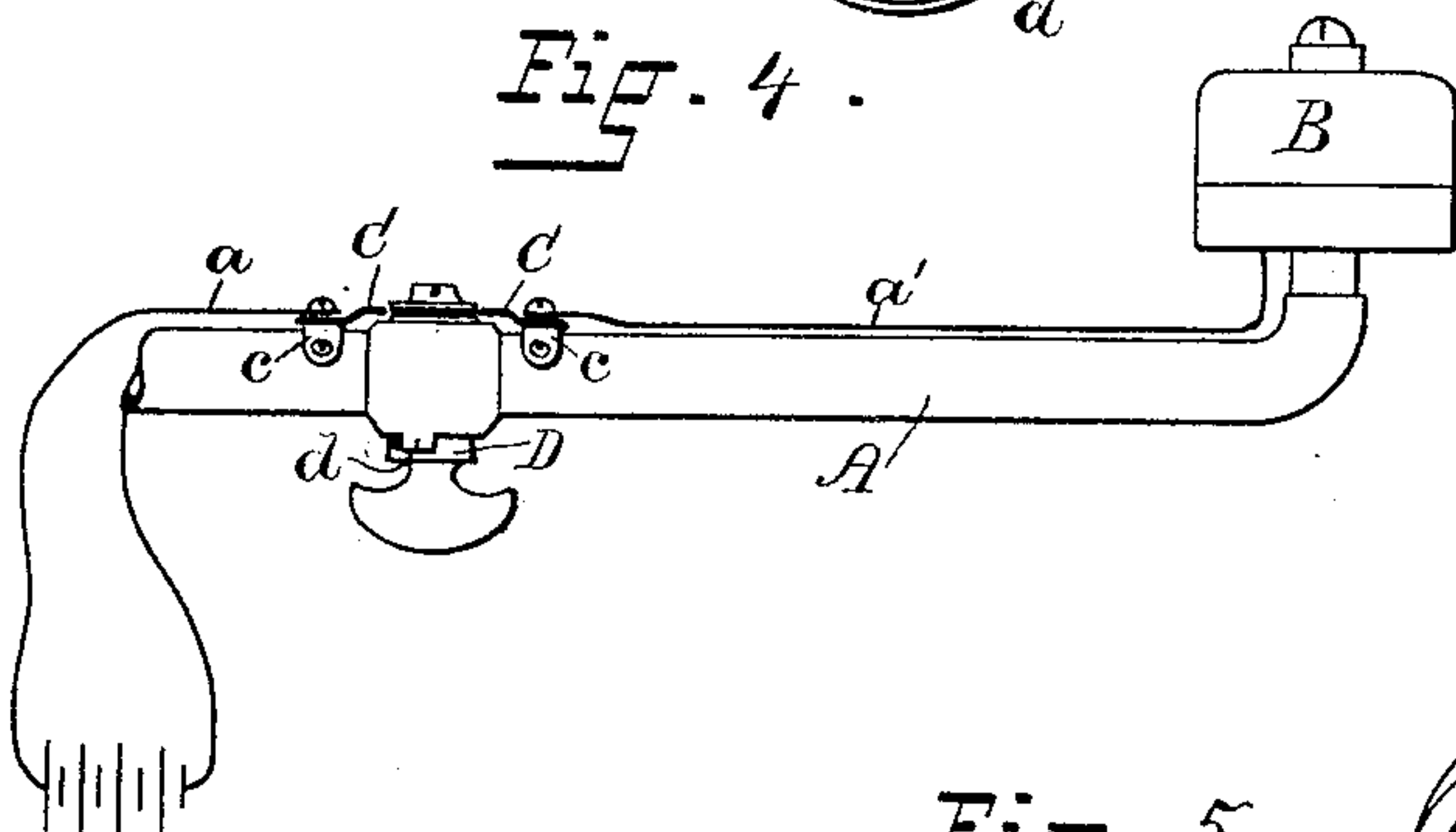
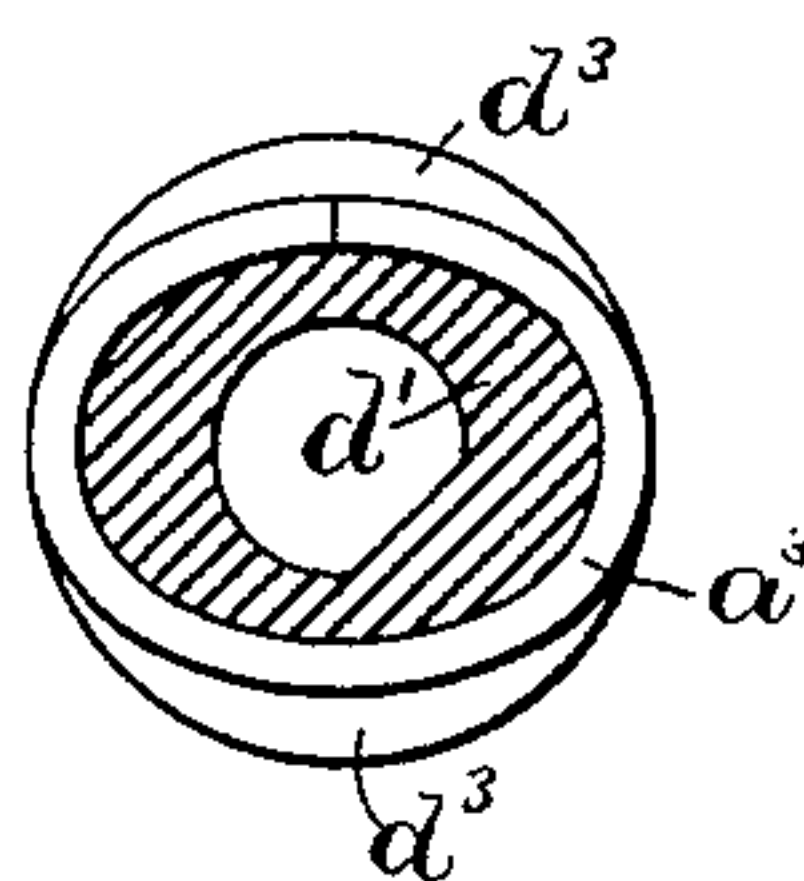


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

E. HOWARD WRIGHT, OF PROVIDENCE, R. I., ASSIGNOR OF ONE-HALF TO CHARLES T. HOWARD AND JOHN W. DUXBURY, BOTH OF SAME PLACE.

ELECTRIC GAS-LIGHTER.

SPECIFICATION forming part of Letters Patent No. 316,428, dated April 21, 1885.

Application filed April 18, 1884. (No model.)

To all whom it may concern:

Be it known that I, E. HOWARD WRIGHT, of Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Electric Gas-Lighters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to that class of devices which are designed to produce a lighting-spark at the tip of a gas-burner; and the object of my invention is to produce an arrangement whereby the gas may be lighted simply by turning the burner-cock.

To the above purpose my invention consists in certain peculiar and novel details of construction and arrangement, as hereinafter described and claimed.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a side elevation of a bracket-pipe with my improvement, shown in section, applied. Fig. 2 is a plan view of the upper side of the pipe. Fig. 3 is an underside plan view of the pipe, the handle of the cock or plug being cut away. Fig. 4 is a view showing the general arrangement of the electrical connections. Fig. 5 is a detached view of the plug or cock, showing its insulator.

In the said drawings, A designates the bracket-pipe and B the burner, which may be of any of the kinds which are provided with attachments for producing an electric spark. a a' designate insulated wires which are laid along the pipe, one of said wires, a , leading to the battery and the other, a' , leading to the burner.

C C designate the fixed contact-points with each of which one of the wires is connected. Each of these contact-points consists of a spring-plate bent as shown and secured by a screw to a plate, c , of non-conducting material, which is in turn secured by screws to the pipe.

D designates the plug or cock, which may be of the usual or any preferred form of general construction. On the lower end of the plug are placed two oppositely-disposed pins, d , which, as the plug is turned, engage alter-

nately with a projection, a^2 , upon the bracket-pipe. At its upper end the plug is provided with a holder, d' , of insulating material—such as hard rubber, glass, or lava—which carries the movable contact-points. As shown in Fig. 5, the holder consists of a stem, of elliptical or other convenient shape, having at each end a circular flange, d^3 . A bare wire, a^3 , may be simply laid around the stem, so as to make contact at two points with the wires a a' .

The relative positions of the pins d , projection a^2 , and the contact-points are such that when the plug is turned so as to allow a full head of gas to flow to the burner the circuit will be closed and the spark generated. Thus the gas will be ignited at the burner by simply turning the plug, after which the size of the flame may be regulated by a reverse turn of the plug in the usual manner.

I am aware that it is not new, broadly, to produce an electric lighting-spark by simply turning the bracket-valve, and that the ordinary valve-plug has been heretofore provided with attachments for making contact with the circuit-wire when the valve is opened. The difference involved in my invention, as compared with previous structures, is superior simplicity and compactness and the absence of any disfigurement of the gas-fixture. Owing to the peculiar construction involved in my invention, the parts are more durable and easier to replace when worn out than any heretofore produced.

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

1. In an electric gas-lighter, the combination, with two contact-points placed upon but insulated from a gas-bracket and electrical conductors from said points to the burner and battery, of a valve-plug having an elliptical upper end surrounded by a conductor and arranged to move with the plug, as described.

2. The combination, with the pipe or bracket A, having the stop a^2 , the plates C c , and the wires a a' , of the plug D, having the pins d , the elliptical holder d^3 , surrounded by a conductor, a^3 , and the holding-screw, as specified.

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Witnesses:

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