

(No Model.)

W. TICE.
INCANDESCENT GAS LAMP.

No. 583,344.

Patented May 25, 1897.

Fig: 1.

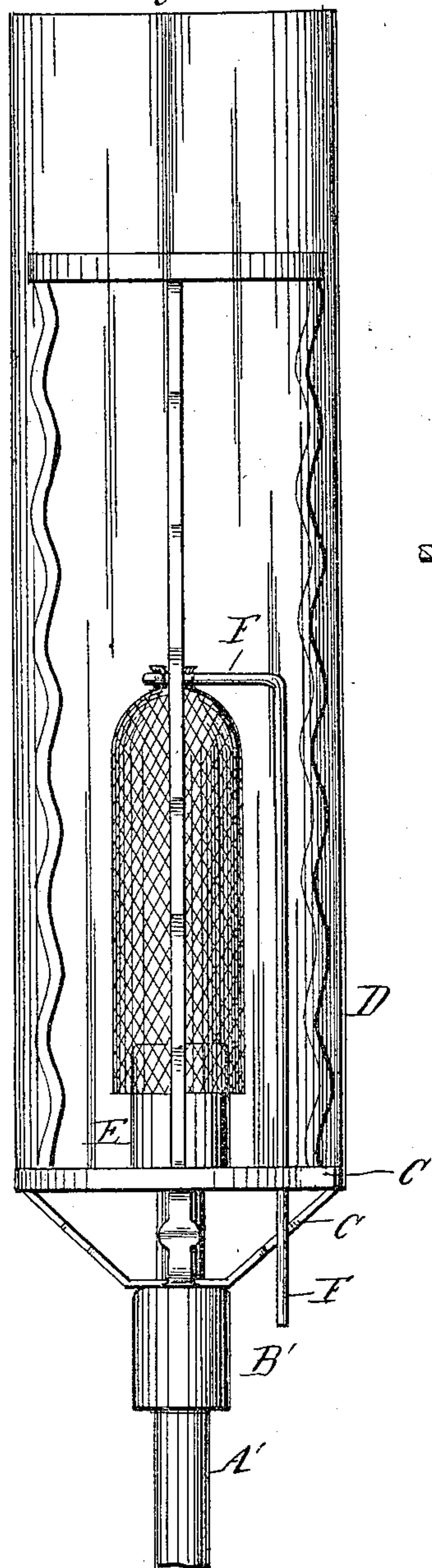


Fig: 2.

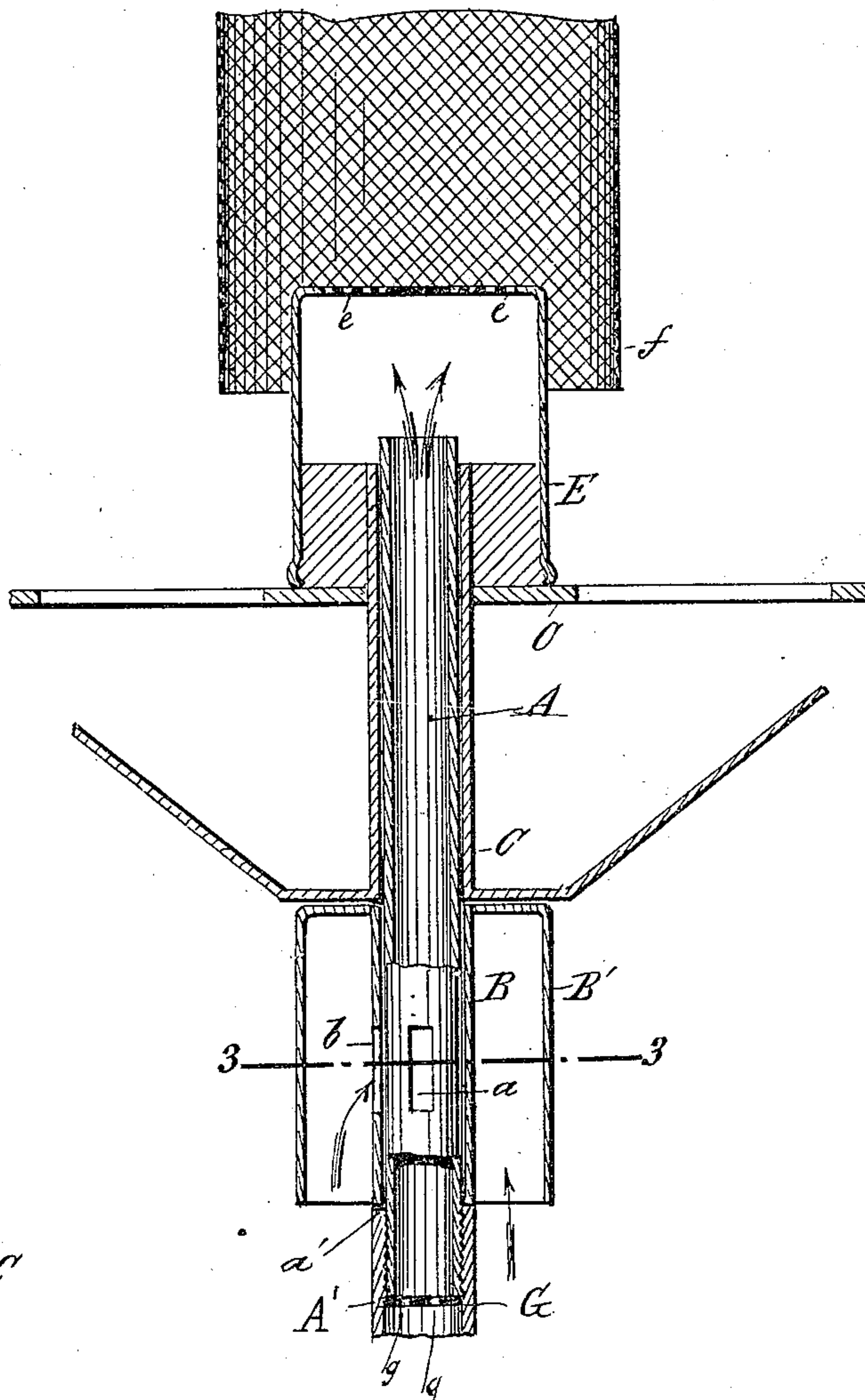
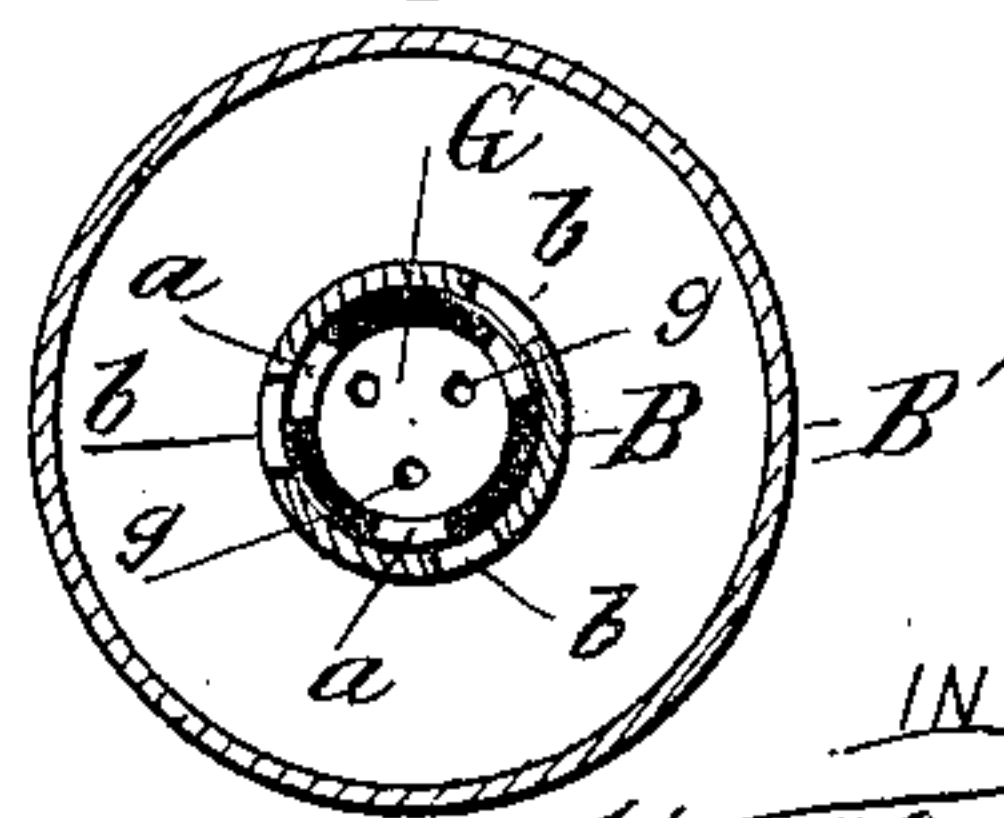


Fig: 3.



WITNESSES:

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INCANDESCENT GAS-LAMP.

SPECIFICATION forming part of Letters Patent No. 583,344, dated May 25, 1897.

Application filed January 15, 1897. Serial No. 619,396. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM TICE, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Incandescent Gas-Lamps, of which the following is a specification.

My invention has reference to improvements in incandescent gas-lamps in which air-supplying attachments are used by which the gas is mingled with a certain quantity of air; and my invention consists in the special construction shown in the accompanying drawings, in which—

Figure 1 is a front view of my improved incandescent gas-lamp. Fig. 2 is a vertical section of the same on enlarged scale, and Fig. 3 is a section on line 3 3 of Fig. 2.

Similar letters of reference indicate corresponding parts.

A in the drawings is a pipe which is connected with the main gas-pipe A' in any convenient manner and is provided with one or more lateral orifices *a*. By the main gas-tube an annular shoulder *a'* is formed, which shoulder may also be made by providing the pipe A with an annular flange. On the said shoulder rests a sleeve B, which is also provided with lateral orifices *b*, corresponding in location with the orifices *a* of the pipe A and which can be rotated on the said shoulder, so that by turning the sleeve around its axis on the pipe A the orifices *a* of the latter can be either closed or partly or entirely opened, as will be understood by Fig. 3. The sleeve has a surrounding jacket B', which overlaps the said orifices to prevent the entrance of dust and other impurities into the same and leaves at the lower end an opening for the necessary air-draft.

C is a globe or chimney supporting frame which is so attached to the pipe A above the sleeve B that the latter is not hindered in its rotation. This frame bears the chimney or globe D, as shown in Fig. 3, and also the burner-cap E, which is located above the outlet-opening of the pipe A, so that the latter is inclosed by the cap. The construction is as usual in incandescent gas-lamps, having on its top a screen or perforations *e*, above which the gas passing through the same is lighted. From the bracket F, attached to the globe-supporting frame, the incandescent mantle

or other incandescent medium is suspended over the burner-cap, where it is set into incandescence by the heat of the gas-flame.

The gas-pipe A has below its orifices *a* a horizontally-traversing diaphragm or plate G, which is provided with one or more small openings *g*, whereby the supply of the gas from the main pipe to the burner is decreased to the volume needed for the lighting purpose. If this plate should not be applied to the pipe A, the gas streaming from the main pipe into the same would be of such a quantity that the air entering through the orifices of the sleeve B and the gas-pipe would not be sufficient to rarefy the gas to the required degree for creating the slight heat which is needed to render the mantle or other medium *f* incandescent.

The intensity of the heat of the gas-flame can be easily regulated by the quantity of air entering the gas-pipe and by the air-draft thereby supplied to the flame. This regulation is attained by turning the sleeve B on the gas-pipe, and thereby rendering the entrance air-openings larger or smaller or closing them entirely, as before described.

By my improved construction not only an easy and convenient regulation of the heat of the gas-flame but also a great saving of gas is obtained, which has been proved by practical tests.

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

The combination of a main pipe, with a pipe having lateral orifices, a perforated diaphragm below the orificed pipe, the pipes being so connected that the end of the main pipe forms an annular shoulder, a rotary sleeve resting on the said shoulder and having orifices corresponding with those of the orificed pipe, and a jacket overlapping the said orifices, a globe or chimney supporting frame attached to the pipe above the sleeve, and a burner-cap resting on the said frame and extending above the outlet-opening of the pipe, substantially as set forth.

Signed at New York, in the county of New York and State of New York, this 21st day of December, A. D. 1896.

WILLIAM TICE.

Witnesses:

CHAS. KARP,
HENRY FOX.