

(No Model)

A. RAMMOSER.

AUTOMATIC GAS LIGHTING APPARATUS FOR INCANDESCENT GAS LIGHTS.

No. 582,875.

Patented May 18, 1897.

Fig. 1.

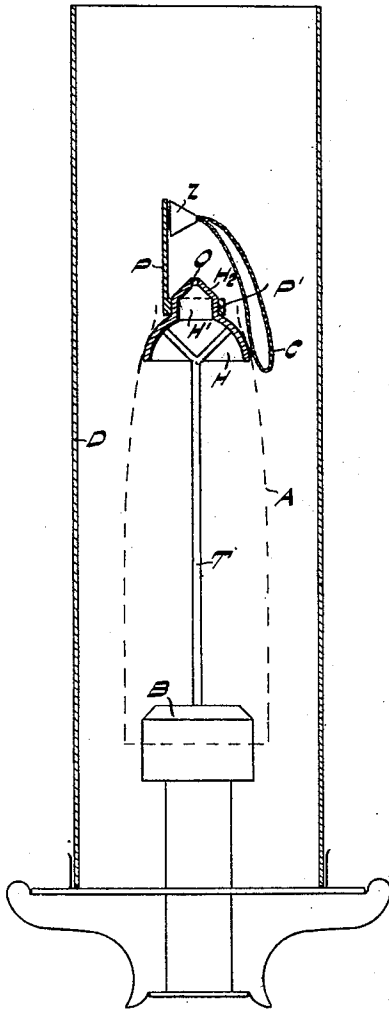
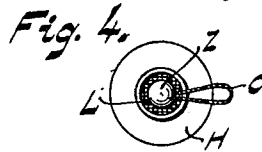
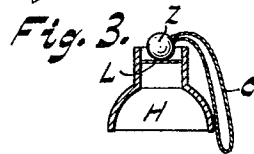
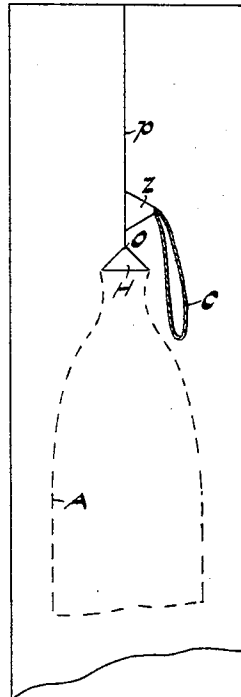


Fig. 2.



Witnesses

Alv. King
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Albert Rammoser Inventor

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UNITED STATES PATENT OFFICE.

ALBERT RAMMOSER, OF BERLIN, GERMANY, ASSIGNOR TO GEORGE LOEWENBERG, OF SAME PLACE.

AUTOMATIC GAS-LIGHTING APPARATUS FOR INCANDESCENT GAS-LIGHTS.

SPECIFICATION forming part of Letters Patent No. 582,875, dated May 18, 1897.

Application filed November 2, 1896. Serial No. 610,877. (No model.)

To all whom it may concern:

Be it known that I, ALBERT RAMMOSER, a subject of the German Emperor, and a resident of Berlin, Germany, have invented certain new and useful Improvements in Automatic Gas-Lighting Apparatus for Incandescent Gas-Lights, of which the following is a specification.

My invention relates to appliances for gas-lighting; and it consists of the hereinafter-described device for automatically lighting the flame of an incandescent burner.

In the accompanying drawings, Figure 1 is an elevation, partly sectional view, of an incandescent gas-light burner provided with my improved device for automatic lighting. Fig. 2 is a diagrammatical illustration of a modified construction of the lighting device. Fig. 3 is a sectional and Fig. 4 a top view of another modified construction thereof.

In the construction shown in Fig. 1 the incandescent mantle A is hung on the hood H, made of some incombustible material and supported on the forked pin T. The top of the hood is contracted into a cylindrical dome H', surmounted by the conical apex H², and in top thereof is provided a small opening O.

Post P is held by ring P' on the cylindrical dome H', and to this post is secured a pellet Z, made of self-igniting material in the manner as described in my United States patent, granted November 24, 1896, No. 572,093. The ends of loop C, made of plaited platinum wire, are embedded in the self-igniting pellet Z. The loop extends downward over the hood.

The incandescent mantle closes around the hood H, and when the cock is turned on the gas and air entering through the burner B will flow upward in mantle A and stream quite forcibly through the opening O against the self-igniting pellet Z.

The flow of gas will ignite the pellet, and the heat produced thereby will be quickly communicated to the loop C. About the same time the gas escaping through the meshes of the mantle A will fill the chimney D, and

then the glowing platinum loop will ignite it. The flame produced will flash downward and ignite the combustive mixture accumulated underneath the mantle. As soon as the gas is ignited within the mantle no more of it will flow through the aperture O, (the whole supply being consumed within the mantle,) and consequently the glowing of the self-igniting pellet Z and of the platinum-wire loop C will cease. This is an important feature of my invention, inasmuch as thereby the life of the self-igniting pellet and also of the platinum-wire loop C is preserved.

In the modified construction shown in Fig. 2 the self-igniting pellet Z, with the loop c, is secured to wire p, sustaining the hood H, with mantle A secured thereto.

In the top of the hood H is a similar aperture O, and the operation of the self-igniting device is the same as described above.

In the modified form shown in Figs. 3 and 4 the top of the hood H is provided with a wider aperture, and a wire sieve L, made of fine platinum wire or produced of some finely-perforated incombustible substance, is spread over it. The self-igniting pellet Z, with platinum-wire loop C, is set on this sieve L, and the device operated in a similar manner as described above.

I claim as my invention and desire to secure by Letters Patent—

1. A device for automatically lighting incandescent gas-burners, comprising a globular hood, supporting the incandescent mantle, and having an aperture in its apex, a self-igniting pellet, arranged above the opening of the hood, and a loop of plaited platinum wire, having its ends embedded in the self-igniting pellet.

2. A device for automatically lighting incandescent gas-burners, adapted to be suspended in the path of the current of gas above the upper orifice of the incandescent mantle, comprising a self-igniting pellet and a loop of plaited platinum wire having its ends embedded in the self-igniting pellet.

3. The combination with an incandescent

gas-burner having the incandescent mantle
suspended on a hood having an orifice in its
top, of a self-igniting pellet, secured above
the orifice of the hood, and of a loop of plaited
5 platinum wire having its ends embedded in
the self-igniting pellet.

In testimony that I claim the foregoing as

my invention I have signed my name in pres-
ence of two subscribing witnesses.

ALBERT RAMMOSER.

Witnesses:

W. HAUPT,

EDUARD FRANKE.