

(No Model.)

G. BRAY.

LANTERN FOR STREET LAMPS.

No. 265,377.

Patented Oct. 3, 1882.

FIG. 3.

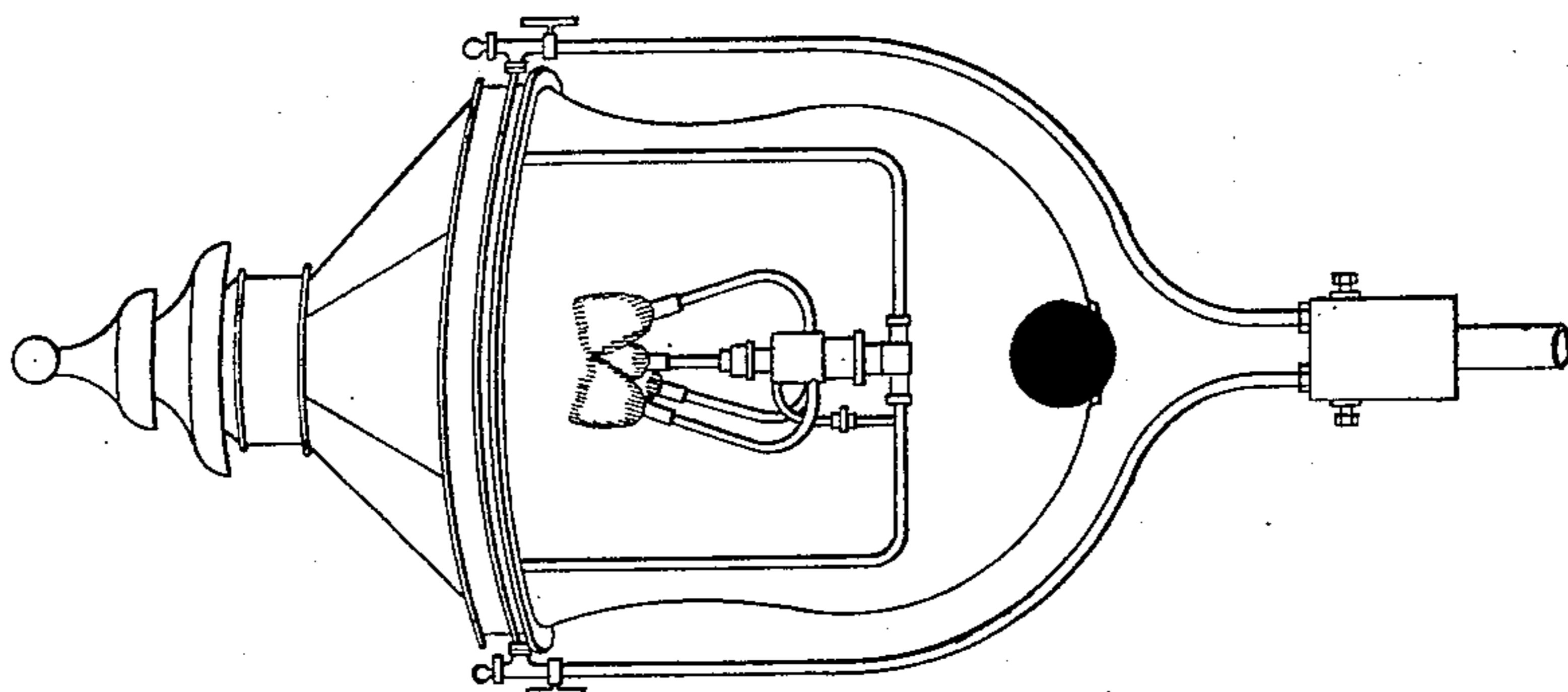


FIG. 2.

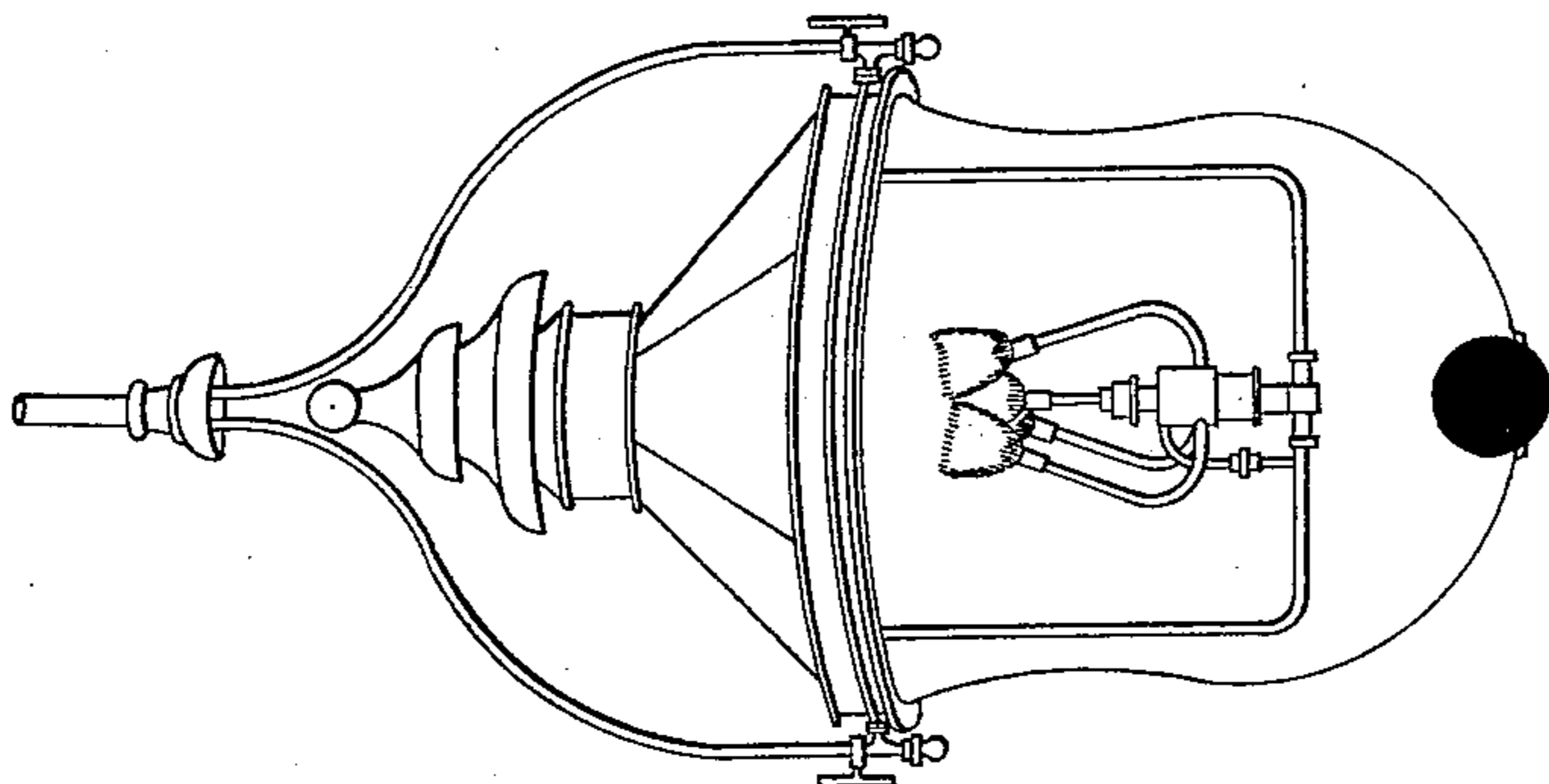
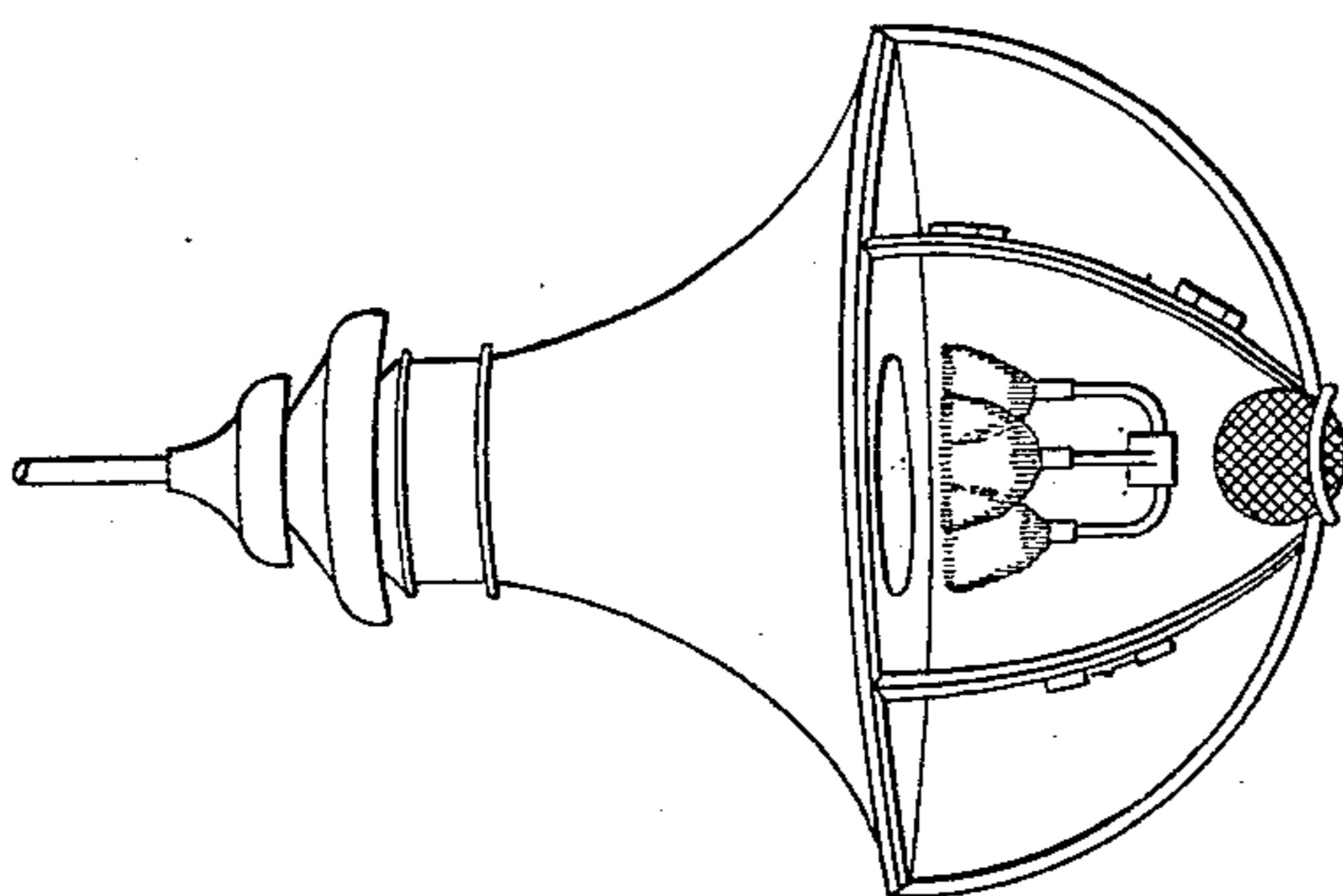


FIG. 1.



Witnesses.

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UNITED STATES PATENT OFFICE.

GEORGE BRAY, OF LEEDS, COUNTY OF YORK, ENGLAND.

LANTERN FOR STREET-LAMPS.

SPECIFICATION forming part of Letters Patent No. 265,377, dated October 3, 1882.

Application filed August 28, 1882. (No model.) Patented in England February 28, 1882, No 970.

To all whom it may concern:

Be it known that I, GEORGE BRAY, a citizen of England, residing at Blackman Lane, Leeds, in the county of York, England, have

5 invented a new and useful Improvement in Lanterns for Street and other Exposed Lamps, (for which I have obtained a patent in Great Britain, No. 970, bearing date February 28, 1882,) of which the following is a specification.
10 In lanterns for street-lamps and for lamps used in railway-stations and other exposed situations it is of great advantage to provide a hole of considerable size at the bottom of the lantern, so as to give access to the burners for
15 lighting and other purposes. The existence of such a hole is, however, very prejudicial to the action of the lamp, in consequence of the currents of air admitted through it.

My invention relates to means of providing
20 an automatic closure or partial closure of such a hole in a lantern, which I effect in the following manner: I provide a ball of diameter larger than the hole, and place it within the lantern so that it will be housed and be free
25 to move about in its housing and automatically seat itself in the opening, so as to prevent the entrance of air, said ball acting as a valve. When access is required for lighting or other purposes the ball is simply pushed
30 aside by the torch or other lighting-instrument employed, and when this is withdrawn the ball, running down the slope of the bottom, resumes its place, closing the hole. When the lantern is so arranged that the air for supplying the flame enters at the top or sides the
35 ball may be simply a solid ball or a shell of thin metal. When, however, the air-supply has to enter in whole or in part through the bottom of the lantern the ball is made as a
40 shell of perforated metal or wire-gauze, so that air can pass through it in subdivided and diffused streams.

Figure 1 of the accompanying drawings shows a suspended lamp with the igniting-hole
45 at the bottom of the glass closed by a ball of perforated sheet metal—such as zinc or copper or tinned copper—the perforations admitting air and diffusing it. Such perforated balls may be made by stamping or pressing two hemi-
50 spherical shells of the sheet metal and uniting them by solder or brazing. When the air for combustion enters at the upper part of the lan-

tern a ball without perforations may be used, as shown in Fig. 2, representing a suspended lamp, or in Fig. 3, representing a lamp sup- 55 ported on a post or column.

Heretofore openings have been made in the bottom of the framing of street-lamps below the gas-burner, which openings are protected by hinged doors or pivoted flaps capable of be- 60 ing opened from the exterior, when desirable, to light the lamp, said doors or flaps remaining in their closed normal position over the openings by gravity, to prevent entrance of blasts of air. I do not claim such organization 65 and construction, for, as before stated, the peculiarity of my invention consists in the employment of a ball for opening and closing the orifice through which the lamp or lantern is lighted, which ball is free to roll about in its 70 housing when acted upon by an implement in the hand of a person, and by its employment all hinges and pivots are dispensed with, and the cost and labor of construction materially reduced, and when said ball is seated it com- 75 pletely closes the orifice and prevents entrance of blasts of air.

Having thus described the nature of my invention and the best means I know of carrying it into practical operation, I claim— 80

1. The combination, with a lantern or exposed lamp having an opening in its bottom, of a ball having a diameter greater than the opening, said ball being free to rotate about its housing and seat itself in the opening by grav- 85 ity, substantially as described.

2. The combination, with a lantern or exposed lamp having an opening in its bottom, of a ball composed of a shell of perforated metal or wire-gauze, having a diameter greater 90 than the opening, said ball being free to rotate about its housing and seat itself in the opening by gravity, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two sub- 95 scribing witnesses, this 5th day of August, A. D. 1882.

GEO. BRAY.

Witnesses:

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