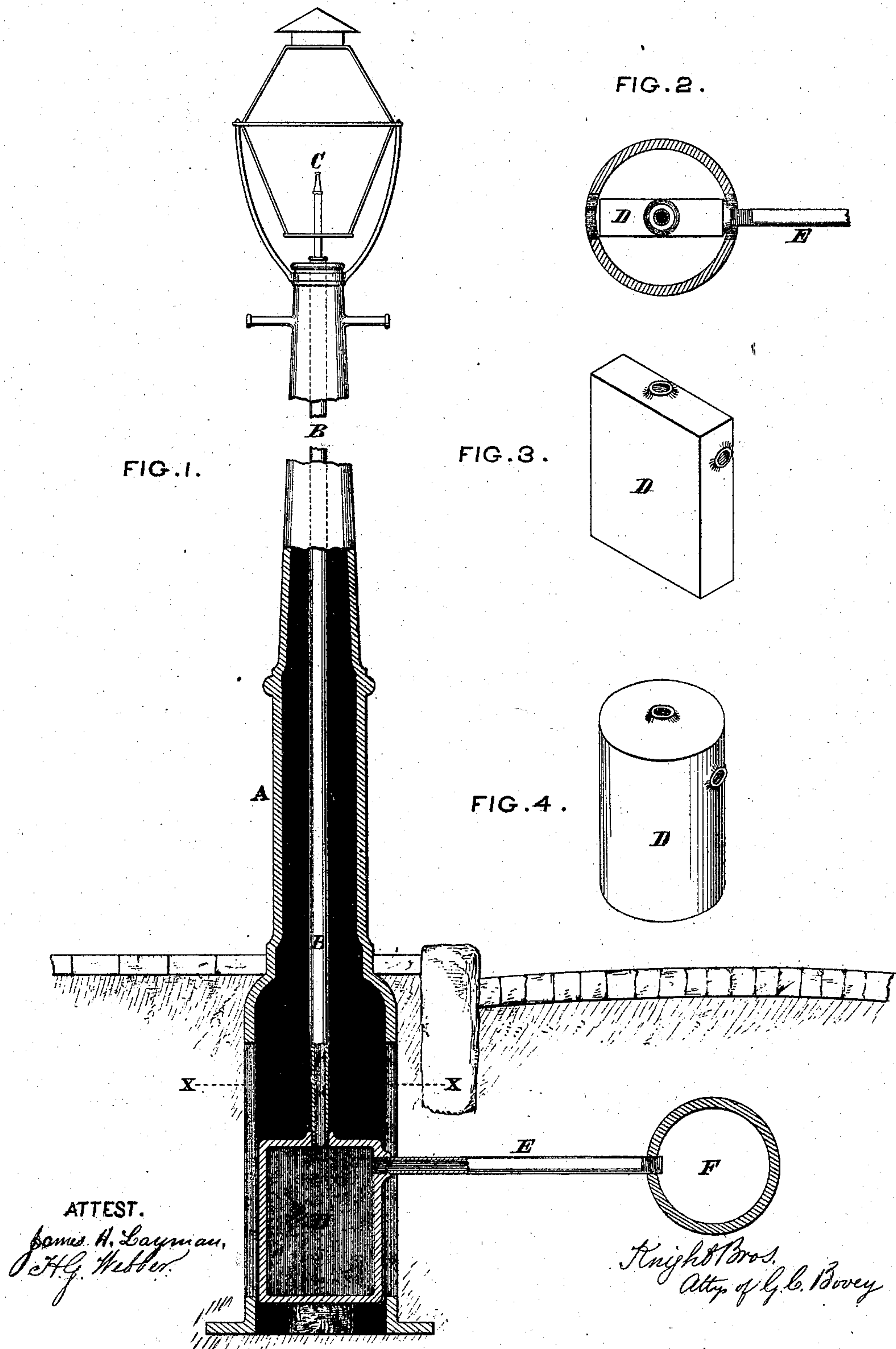


G. C. BOVEY.

Lamp Post.

No. 99,527.

Patented Feb. 8, 1870.



# United States Patent Office.

GEORGE C. BOVEY, OF CINCINNATI, OHIO.

Letters Patent No. 99,527, dated February 8, 1870.

## IMPROVEMENT IN SEDIMENT-CHAMBER FOR LAMP-POSTS.

The Schedule referred to in these Letters Patent and making part of the same.

I, GEORGE C. BOVEY, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Sediment-Chamber for Lamp-Posts, of which the following is a specification.

### *Nature and Objects of the Invention.*

My invention relates to a device for relieving street gas-lights from a class of defects to which they are at present liable, owing to the stoppage of the service and supply-pipes by the moisture which condenses on their inner surface, and often collects in the elbow or "quarter-turn," at the foot of the pipe, in sufficient quantity to "seal up" the pipe, and prevent the passage of gas. This impediment is further increased by the rust which scales off from the interior of the pipe, and falls to the same point, and by the freezing of said moisture incident to unusual depressions of temperature; and

My invention consists in applying, at the foot of the post, a reservoir or sediment-chamber, of sufficient capacity to receive and hold such deposit for a very long time, without its accumulation in any way interfering with the supply of gas to the burner.

### *General Description with Reference to the Drawings.*

Figure 1 is a vertical section, partly in elevation, of a lamp-post, provided with my sediment-chamber.

Figure 2 is a horizontal section of the same, taken on the line *x x*.

Figure 3 is a perspective view of my sediment-chamber, detached from the post.

Figure 4 is a perspective view, showing a chamber of a cylindrical form.

A represents a lamp-post, of customary construction, through the centre of which passes a gas-pipe, B, having attached to its upper end a burner, C.

The lower end of said pipe B is screw-threaded, and attached to my sediment-chamber, which consists of a cast-iron box, D, of rectangular form, having its greatest dimension in a vertical direction, its width and thickness being governed, respectively, by the interior diameter of the post, and the width of the usual slot

at its lower end for the insertion of the service-pipe E, which leads from the street-main F to the post, entering the box D, near its upper end.

Said pipe E is screw-threaded at both ends, each in a reverse direction to the other, thus enabling it to be secured to both main and box by one operation.

In applying my sediment-chamber to lamp-posts already in use, a box, of the described shape, is inserted through the slot in the post, and supported upon any suitable foundation, to prevent it from settling under the weight of the pipe; but, in setting up new posts, a box of the cylindrical form, shown in fig. 4, may be first placed in the ground, and the post set over it, thus securing a much greater capacity of chamber.

It is evident that no deposit from the pipes will interfere with the supply of gas until the chamber is nearly full, which would not take place in a very long time, if at all, during the period of duration of the service-pipe and post.

Another benefit, incident to this invention, grows out of the fact that the box D forms an equalizing-chamber, which tends, by its capacity, to maintain an equal pressure of gas, and thus insure a steady flame.

It will be seen that my improvement can be easily applied to existing lamp-posts, which are not necessarily air-tight, as would be the case were the post itself used for the reservoir; and should any part of the apparatus become defective, it can be easily and cheaply renewed, without disturbing the lamp-post.

### *Claim.*

I claim as my invention—

The sediment-chamber D, constructed separately from the lamp-post, to be used in combination with such post, and with the service-pipe E, and gas-pipe B, substantially as above described.

In testimony of which invention, I hereunto set my hand.

GEORGE C. BOVEY.

Witnesses:

GEO. H. KNIGHT,  
JAMES H. LAYMAN.