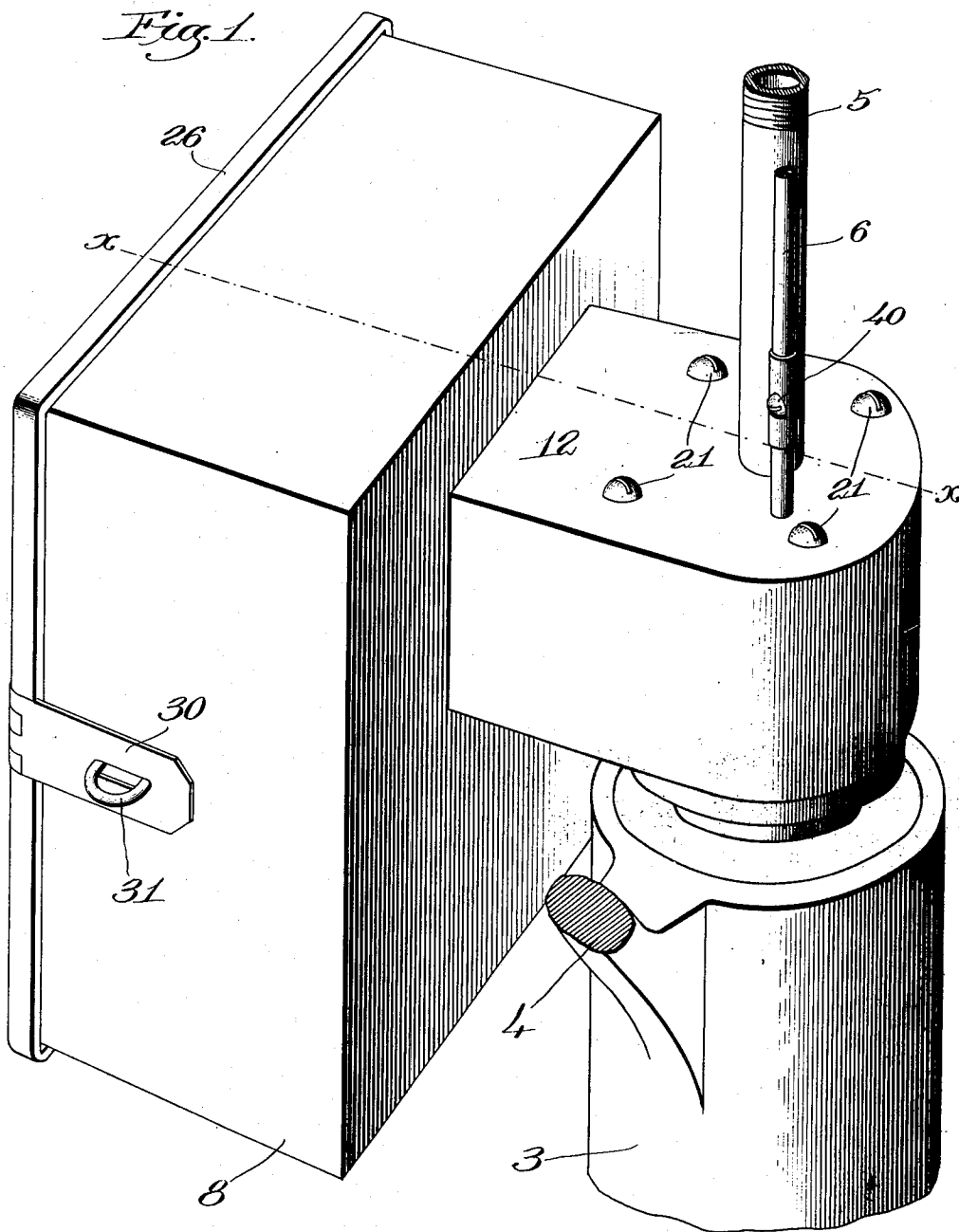


P. R. SEAMON.
AUTOMATIC GAS LIGHTING APPARATUS.
APPLICATION FILED FEB. 2, 1911.

1,054,719.

Patented Mar. 4, 1913.

2 SHEETS—SHEET 1.

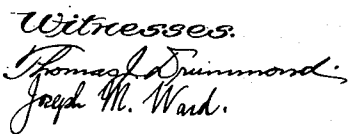


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1,054,719.

2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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TO AUTOMATIC LIGHTING COMPANY, OF BOSTON, MASSACHUSETTS, A CORPORATION OF MAINE.

AUTOMATIC GAS-LIGHTING APPARATUS.

1,054,719.

Specification of Letters Patent.

Patented Mar. 4, 1913.

Application filed February 2, 1911. Serial No. 606,138.

To all whom it may concern:

Be it known that I, PERCY R. SEAMON, a citizen of the United States, residing at Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Automatic Gas-Lighting Apparatus, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawing representing like parts.

This invention relates to automatic gas-lighting apparatus for street lamps and has for its object to provide a novel construction by which the time mechanism may be supported at the side of the lamp-post, instead of interposed between the lamp-post and the burner.

Most street lamps are provided with a so-called lantern or globe holder which is sustained on the top of the lamp-post and within which the burner is received. Where the automatic gas-controlling mechanism is of such a construction that the time mechanism thereof has to be inserted directly on top of the lamp-post and between the latter and the burner and in line with both, it is frequently difficult to use the ordinary lantern because it is not large enough to contain the time mechanism, and where this is the case either a new lantern must be employed or some provision must be made for mounting the lantern on top of the automatic gas-controlling mechanism. My co-pending application Se. No. 588,623 illustrates an automatic gas-controlling device of this nature and the use of which would necessitate either a special lantern or a special mounting for the lantern on the post.

In my present invention I have provided a construction which permits the time mechanism to be set off at one side of the lamp-post, and yet have the valve which is controlled thereby directly in line with the lamp-post and gas pipe.

My improved apparatus has such a construction that it can be applied to any ordinary street lamp without replacing the lantern or its holder.

Some embodiments of my invention will first be described and the novel features thereof will be pointed out in the appended claim.

Referring to the drawings, Figure 1 is a

perspective view of the upper portion of a lamp-post and the box containing my improved automatic gas-lighting apparatus applied thereto; Fig. 2 is a vertical section through the apparatus shown in Fig. 1 on substantially the line $x-x$, Fig. 1; Fig. 3 is a fragmentary view similar to Fig. 2 showing a different embodiment of my invention.

In the drawings 1 designates the lamp-post and 2 the gas conduit situated within the lamp-post and through which the gas is delivered to the burner. 3 designates that portion of the holder for the lantern which rests over the top of the lamp-post 1, said holder usually having two oppositely-disposed arms 4 extending up from the part 3 to a cap portion from which the globe is supported. I have not deemed it necessary to show the lantern in any more detail because this is a well-known feature.

5 designates a gas pipe which leads to the burner and 6 is a small pipe leading to the pilot-burner. The gas pipe 5 has therein a valve 7 of some suitable construction by which the gas supply is admitted to the main or pilot-burners. Said valve may have any suitable construction, but preferably is similar to that shown and described in my co-pending application Se. No. 588,623 above referred to, and therefore a further description of the valve is not necessary. This valve is opened and closed automatically by a time mechanism contained in a box or casing 8, but as the time mechanism forms no part of my present invention I have not deemed it necessary to show it herein in detail, but have contented myself with merely showing the frame 9 which supports the time mechanism and the main arbor 10 thereof which connects to the plug 11 of the valve 7. The casing 8 is made with a chambered extension 12 within which the valve 7 is received, the pipes 5 and 6 extending up through the top of this extension. The plug 11 has connected thereto a stem or extension 13 which in turn connects to the arbor 10 of the clock mechanism so that the rotation of the arbor 10 will operate the valve 11. The extension 13 may be secured to the plug 11 in any suitable way, and I have herein shown said plug as having an axial recess into which the end of the extension 13 enters and as provided with slots

14 into which pins 15 extending laterally from the extension are entered. A similar connection between the extension 13 and the arbor 10 is provided, that is, the end of the arbor enters a recess in the end of the extension 13 and is provided with one or more laterally-extending pins 16 which fit in slots 17 formed in the extension.

The clock mechanism I employ is such that the driving arbor 10 is at the upper side thereof so that the extension 12 is formed near the upper end of the casing 8, and the casing is situated largely below the extension 12. The extension 12 may be secured to the lamp-post in any appropriate way. As shown in Fig. 2, said casing has secured on its under side a boss or hub 18 which rests on the top of the lamp-post 1 and into which the gas conduit 2 is screw-threaded. The valve 7 is provided with the nipple 19 which extends through the bottom of the extension 12 and a tight joint between said nipple and extension is provided by means of a packing member 20 which also makes a gas-tight joint between the boss 18 and the extension. Said boss may be secured to the casing in any suitable way as by means of bolts or screws 21 that extend down through the casing and into the hub or boss 18.

In Fig. 3 I have shown a little different manner of connecting the extension 12 to the lamp-post, and in this construction the gas conduit 2 is connected directly to the valve 7, while the boss or hub 18 is screw-threaded on an extension 23 formed on the lamp-post 1. The extension 12 need only be large enough to properly actuate the valve 7, and therefore the vertical dimension thereof can be comparatively small. As a result my device can be applied to a street lamp without necessitating any change in the lantern or its support, for the extension 12 takes up comparatively little room and can be readily applied to any street lamp.

The casing 8 in which the clock mechanism is employed is situated entirely at one side of the lamp-post and is out of the way of both the latter and the lantern and may

therefore be of any desirable size without departing in any way from the invention.

I have herein shown the casing 8 as provided with a lining 24 of fiber or some other similar material and as also provided with a packing gasket 25 near its open side and against which the door 26 impinges when the latter is shut. The lining 24 is provided with a removable cover portion 27 which closes the open side of the lining. When the door is shut a water-tight joint is made because of the packing gasket 25 and the lining 24, and the cover 27 serves as an additional means for preventing any moisture or any foreign substance from getting into the clock-work. The shaft 10 is shown as extending through the back side of the lining at 28. It will be understood, of course, that the door 26 is hinged to the casing by means of suitable hinges 29 and said door is shown as having a clasp 30 thereon which engages a staple 31 extending from the casing so that the door can be locked by means of a suitable padlock.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

In an automatic gas-lighting apparatus, the combination with a casing having a cover and a valve-receiving extension, of a valve within said extension, time mechanism within the casing, means connecting said time mechanism and valve, a lining for the casing which entirely incloses the time mechanism on all sides thereof, and a packing member interposed between the side walls of the lining and the side walls of the casing and projecting beyond the lining sufficiently to be engaged by the cover when the latter is closed.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

PERCY R. SEAMON.

Witnesses:

LOUIS C. SMITH,
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