

No. 776,362.

PATENTED NOV. 29, 1904.

V. H. SLINACK.  
GAS CONTROLLER.

APPLICATION FILED MAY 3, 1904.

NO MODEL.

Fig. 1.

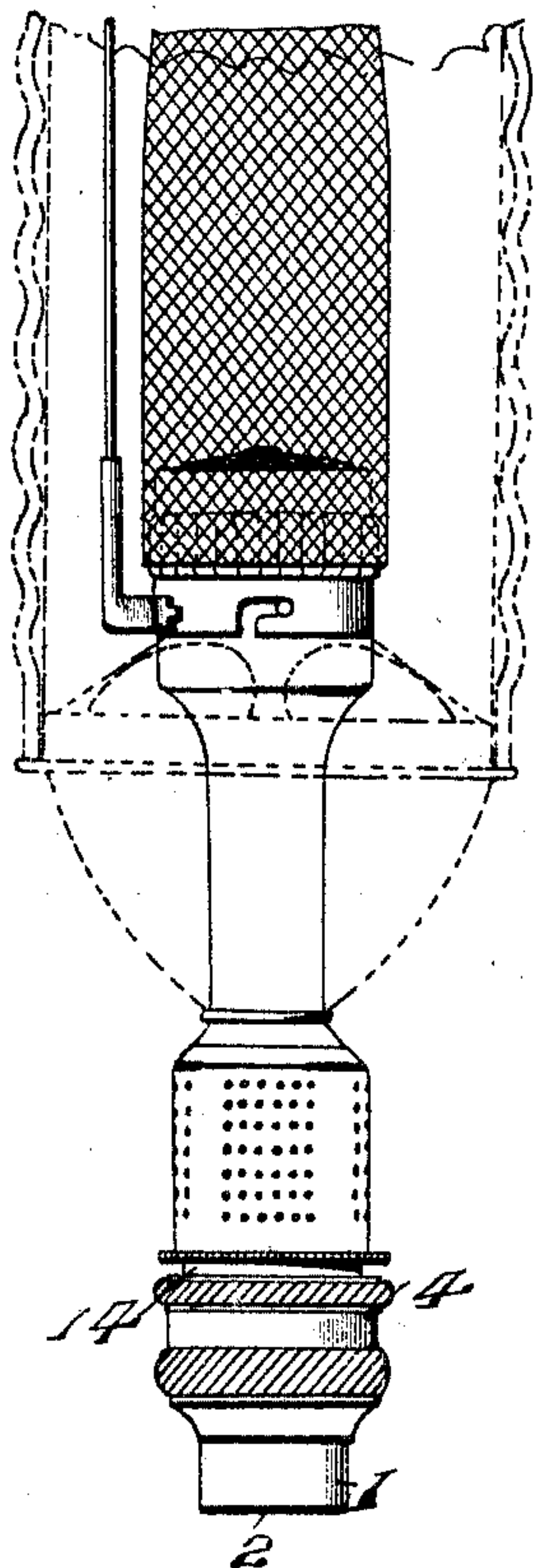


Fig. 2.

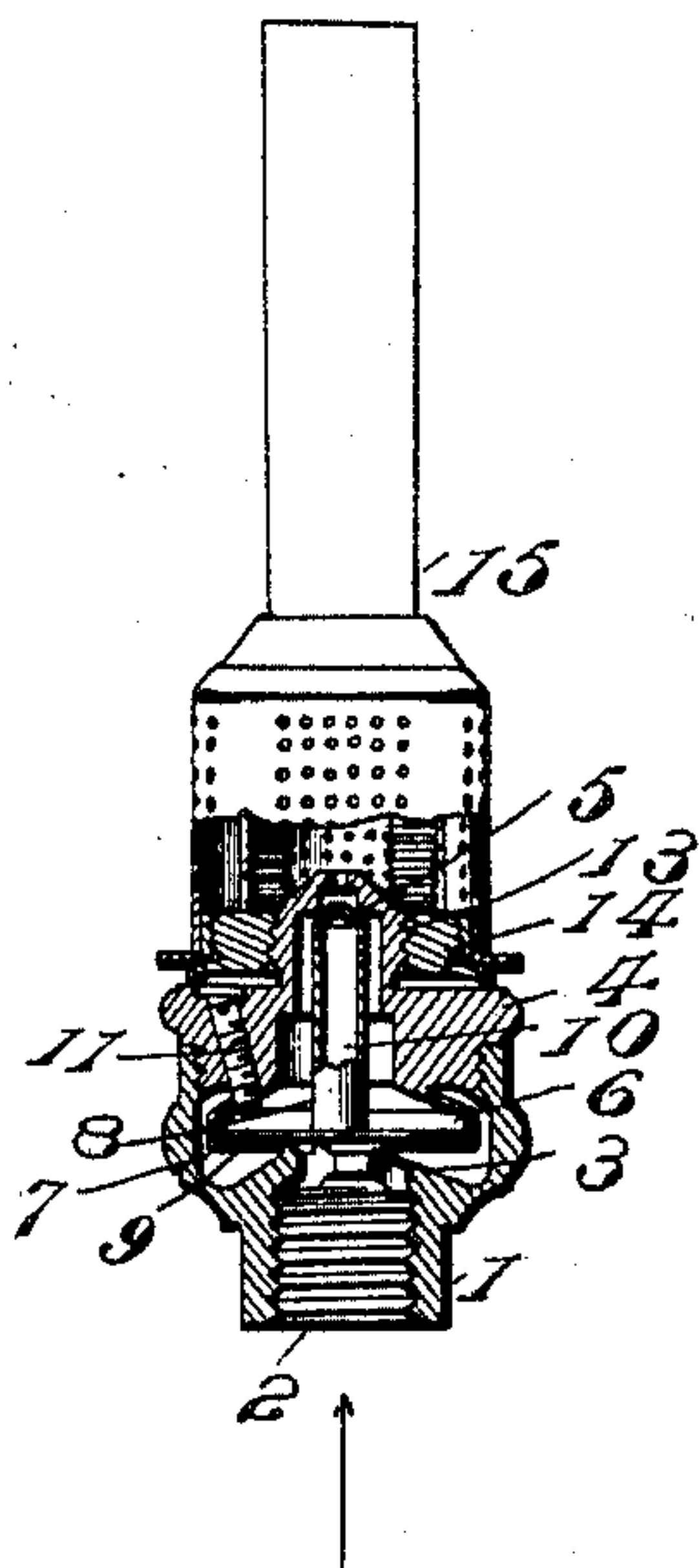


Fig. 3.

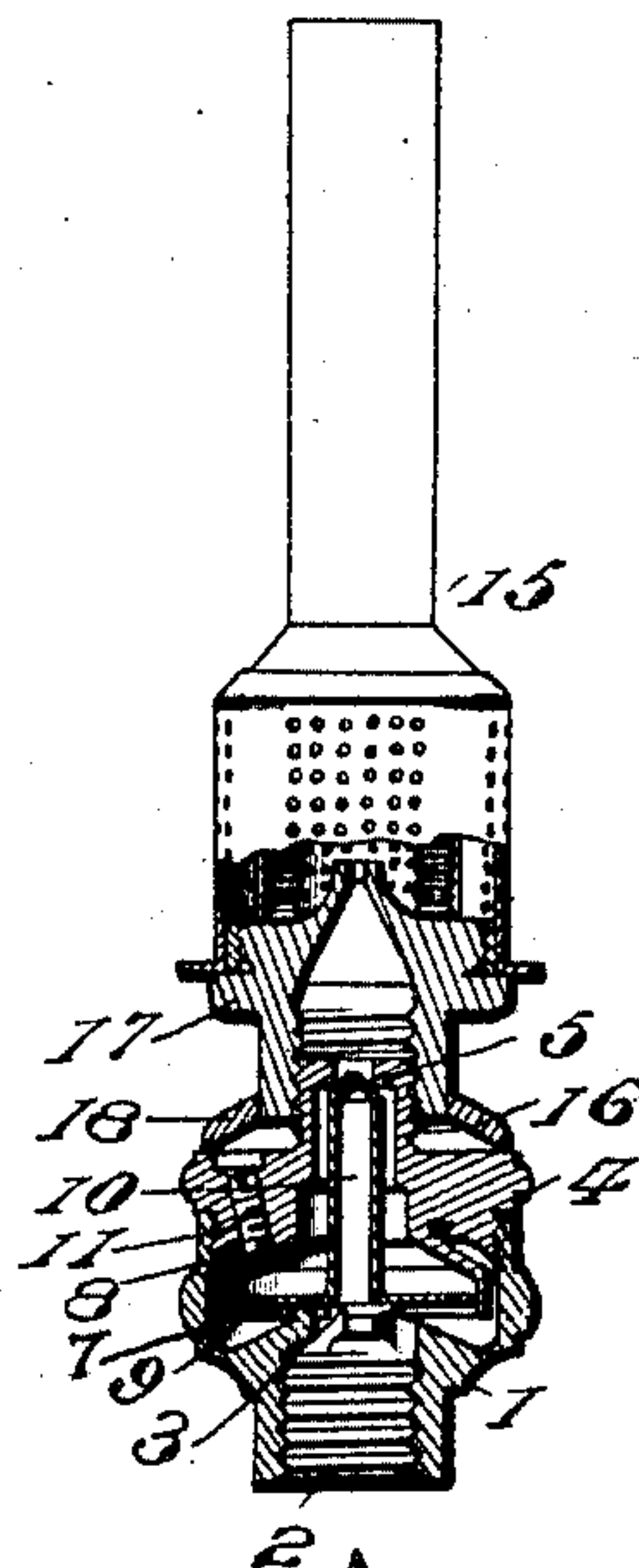
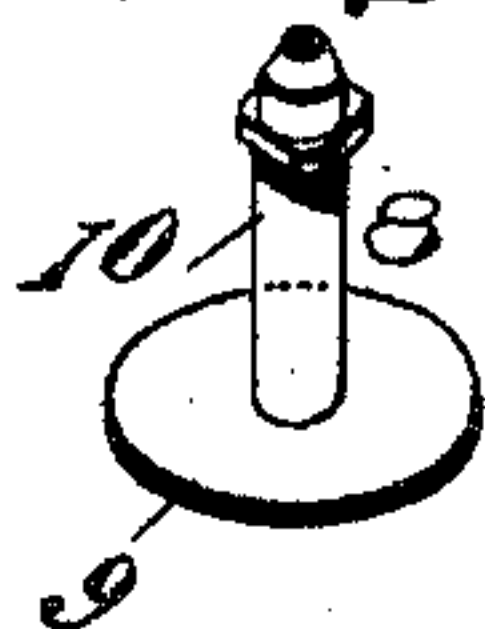


Fig. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## GAS-CONTROLLER.

SPECIFICATION forming part of Letters Patent No. 776,362, dated November 29, 1904.

Application filed May 3, 1904. Serial No. 206,123. (No model.)

*To all whom it may concern:*

Be it known that I, VICTOR H. SLINACK, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Gas-Controllers, of which the following is a specification.

Objects of the present invention are to provide a reliable, accurate, and practical governor or regulator for gas and the like; to so construct the device that its parts are simple, easily assembled, and readily adjusted and cleaned; to provide a governor which can be manipulated by means of pliers without danger of injury to its internal parts, and to guard against undesirable tampering with the adjustment of the governor, while at the same time affording easy means for effecting such adjustment.

To these and other ends hereinafter set forth the invention, stated in general terms, comprises the improvements to be presently described and finally claimed.

The nature, characteristic features, and scope of the invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, and in which—

Figure 1 is an elevational view showing a gas governor or regulator embodying features of the invention in application to a Welsbach or other incandescent burner. Fig. 2 is an elevational view, principally in section, illustrating portions of the burner shown in Fig. 1. Fig. 3 is a similar view illustrating a modification of the invention, and Fig. 4 is a perspective view of the float or disk valve.

In the drawings, 1 is a lower tubular shell provided with a gas-intake connection 2 and with a valve-support 3, rising above the same. As shown, the valve-inlet support comprises some upwardly-projecting feet, between which there is always an opening or openings for the passage of gas.

4 is an upper tubular shell provided internally at or near its top with a valve-seat 5, having a gasway through it. This tubular shell 4 is also provided with a cylindrical de-

pending skirt 6, having a gas-port 7 through it. These two tubular shells are screwed together, so that they may be readily taken apart and assembled.

8 is a float-valve having a disk 9 and a tubular stem or spindle 10, the upper end of which constitutes a valve that coöperates with the seat 5.

11 is an adjusting-screw which penetrates the upper portion of the shell 4 in such a way that its head is accessible from the outside and its point is arranged to coöperate with the opening or port 7. Gas entering at 2 escapes in part through the tubular shank 10 of the valve in all positions thereof. According to the adjustment of the screw 11 more or less gas passes around the outside of the skirt through the port 7 above the disk 9 and in that way escapes upward. The adjustment of the screw also serves to control the extent and character of the movement of the valve. Since the head of this screw is accessible from the top, it follows that the necessary adjustments can be readily and conveniently made. The disk 9 is fitted within the skirt 6 by reason of the valve-support 3, thus insuring certainty in operation.

Referring to Fig. 2, the upper tubular shell 4 is provided with an externally-threaded projection 13, having a jet-orifice formed through it. 14 is a ring screwed onto this projection and adapted to be screwed down to cover the head of the screw 11, so as to prevent it from being undesirably adjusted, as by a lamp-lighter, and adapted to be screwed upward so as to uncover the head of the screw and permit of the adjustment of the device by some one qualified to effect it. The lower face of this ring 14 is shown as concaved. When so made, the concavity accommodates the head of the screw 11. The Bunsen tube 15 is shown as screwed onto this ring, and the construction of this figure provides a short fixture of neat and attractive appearance.

Referring to Fig. 3, the projection 16 on the upper tubular casing 4 is externally threaded and provided with a gasway, which, however, is not a jet-orifice. Onto this projection 16



is screwed a member 17, which is provided with a jet-orifice, attaching means for the Bunsen tube 15, and a ring 18, which may be concave on the under side and which serves to cover and uncover the adjusting-screw in the manner described in connection with the ring 14.

It will be obvious to those skilled in the art to which my invention relates that modifications may be made in details without departing from the spirit thereof. Hence I do not limit myself to the precise mode of procedure and construction above set forth; but,

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A gas-controller comprising the combination of a lower tubular shell provided with gas-intake connections and with a valve-support clearing the same, an upper tubular shell provided internally at its top with a valve-seat having a gasway and with a cylindrical skirt having a gas-port, a float-valve having its disk confined to move in the skirt by the valve-support and having the end portion of its tubular spindle arranged to cooperate with said valve-seat, and an adjustable screw having its head penetrating the upper portion of the top casing and its point arranged to open and close the port, substantially as described.

2. A gas-controller comprising the combination of a lower tubular shell provided with gas-intake connections and with a valve-support clearing the same, an upper tubular shell provided internally at its top with a valve-seat having a gasway and with a cylindrical skirt having a gas-port, a float-valve having its disk confined to move in the skirt by the valve-support and having the end portion of its tubular spindle arranged to cooperate with said valve-seat, an adjustable screw having its head penetrating the upper portion of the top casing and its point arranged to open and close the port, and a movable ring for covering and uncovering the head of the screw, substantially as described.

3. A gas-controller comprising the combination of a lower tubular shell provided with gas-intake connections and with a valve-support clearing the same, an upper tubular shell provided internally at its top with a valve-seat having a gasway and with a cylindrical skirt having a gas-port, a float-valve having its disk confined to move in the skirt by the valve-support and having the end portion of its tubular spindle arranged to cooperate with said valve-seat, an adjustable screw having its head penetrating the upper portion of the top casing and its point arranged to open and close the port, and a movable ring having a concave face for covering and accommodating the head of the screw, substantially as described.

4. The combination of a gas-controller casing having an extending projection, the head of a gas-governor-adjusting screw projecting through the casing, and a movable ring encircling the projection for covering and uncovering the head, substantially as described.

5. The combination of a gas-controller casing having an extending projection, the head of a gas-governor-adjusting screw projecting through the casing, and a movable ring encircling the projection and having a concave face for covering and uncovering the head, substantially as described.

6. A gas-controller comprising the combination of a lower tubular shell provided with gas-intake connections and a support for holding a valve clear of the same, an upper tubular shell provided at its top with a threaded projection having a jet-orifice and a valve-seat and provided beneath with a depending skirt having a gas-port, a valve having its disk confined to move in the skirt by the valve-support and the end portion of its tubular stem arranged to cooperate with said valve-seat, an adjusting-screw having its head penetrating the upper portion of the upper casing and its point arranged to open and close the port, and a ring screwed onto the threaded projection and adapted to cover and uncover the head of the screw, substantially as described.

7. A gas-controller comprising the combination of a lower tubular shell provided with gas-intake connections and a support for holding a valve clear of the same, an upper tubular shell provided at its top with a threaded projection having a jet-orifice and a valve-seat and provided beneath with a depending skirt having a gas-port, a valve having its disk confined to move in the skirt by the valve-support and the end portion of its tubular stem arranged to cooperate with said valve-seat, an adjusting-screw having its head penetrating the upper portion of the upper casing and its point arranged to open and close the port, and a ring mounted on the threaded projection and adapted to cover and uncover the head of the screw, substantially as described.

8. The combination of a gas-controller provided at its top with a threaded projection, an adjusting-screw penetrating the upper portion of the governor-shaft and having its head accessible from the top thereof, and a ring mounted onto the projection and adapted to cover and uncover the head of the screw, substantially as described.

In testimony whereof I have hereunto signed my name.

VICTOR H. SLINACK.

Witnesses:

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K. M. GILLIGAN.