

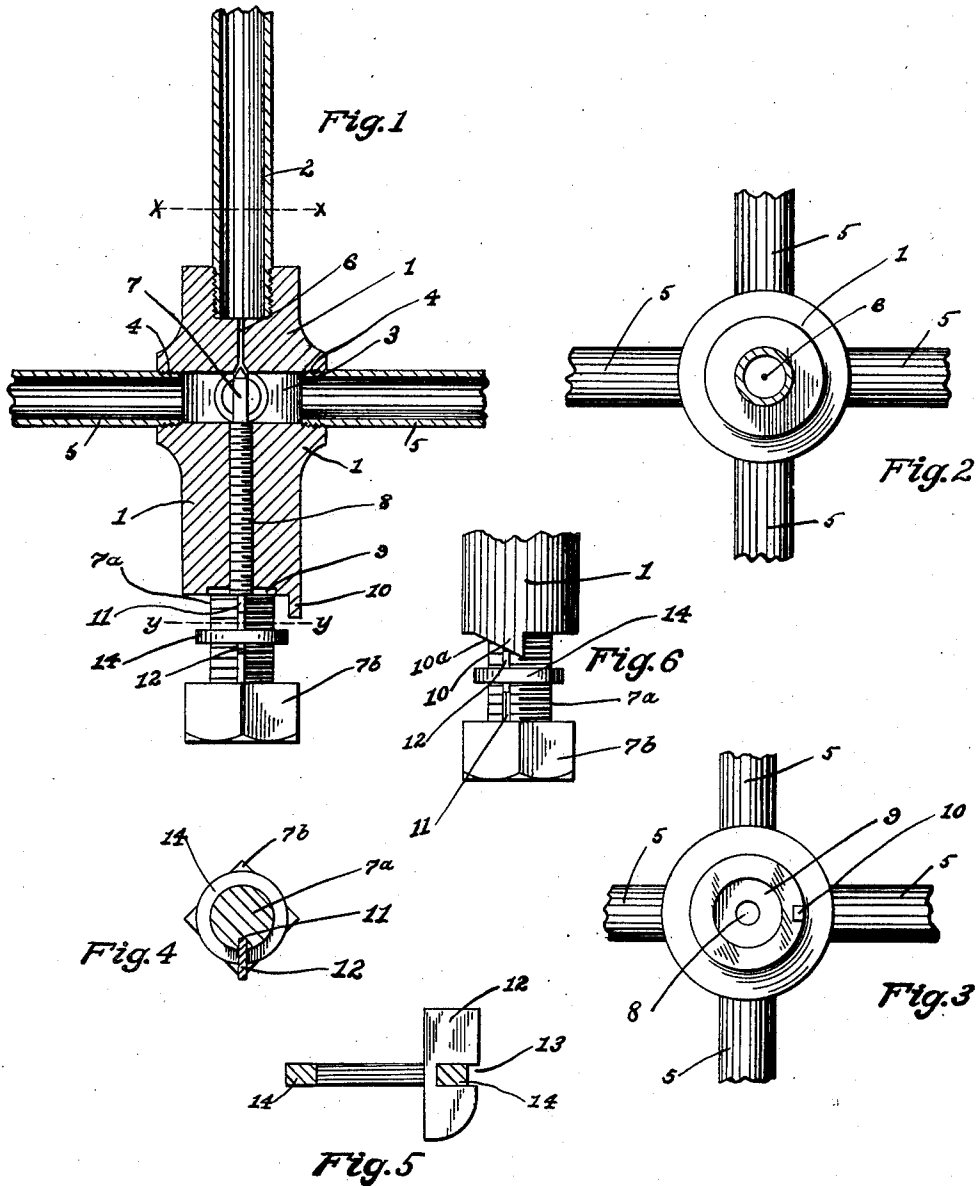
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J. C. JENNINGS.
GAS DISTRIBUTING CHANDELIER.

APPLICATION FILED APR. 18, 1901.

NO MODEL.



WITNESSES:

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GAS-DISTRIBUTING CHANDELIER.

SPECIFICATION forming part of Letters Patent No. 737,632, dated September 1, 1903.

Application filed April 18, 1901. Serial No. 56,352. (No model.)

To all whom it may concern:

Be it known that I, JACOB C. JENNINGS, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Gas-Distributing Chandeliers, of which the following is a specification.

My invention relates to the improvement of gas-distributing chandeliers; and the objects of my invention are to provide a chandelier-body and gas-controlling valve therefor of such arrangement and construction of parts as to obviate the necessity of employing a separate port or by-pass for the purpose of supplying a minimum amount of gas to the burner-supporting arms, to so construct the controlling-valve and chandelier or valve-casing body as to admit of the gas being completely cut off from the valve-body or to insure the cutting off of the gas only to a predetermined extent and to produce other improvements in details of construction and arrangement of parts, which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a central vertical section of my improved chandelier or valve-casing. Fig. 2 is a sectional view on line *xx* of Fig. 1. Fig. 3 is an under side view of the valve casing or body with the valve removed. Fig. 4 is a transverse section on line *yy* of Fig. 1. Fig. 5 is an enlarged transverse section of the adjusting-nut, showing the stop-key in position thereon; and Fig. 6 is a view in elevation of the lower portion of the valve-body.

Similar numerals refer to similar parts throughout the several views.

In carrying out my invention I employ a chandelier distributing-body or valve-casing 1, into the upper end of which is screwed or otherwise secured a vertical gas-inlet pipe 2.

3 represents an internal valve-chamber, with which communicate threaded valve-casing openings 4, into which are secured the ends of gas-distributing pipe-arms 5, the latter being of any desired number and being

adapted to support in the usual manner suitable forms of burners at their outer ends. With the internal chamber 3 connects the lower end of a gas-port 6, the upper end of which communicates with the lower end of the gas-supply pipe 2. This port has its lower termination flaring to form a seat for the conical upper end of a needle-valve 7, this vertical needle-valve having the greater portion of its body threaded and adjustably retained in a vertical threaded opening 8, which extends through the lower end of the body 1. Below the body 1 the valve 7 is provided with an enlargement 7^a, which is also externally threaded and which terminates in a suitable finger-piece or valve-head 7^b. The threaded enlargement 7^a of the valve has its upper end adapted to enter a shallow socket 9, formed in the lower end of the body 1, and said lower body end is provided on one side with a downward extension or stop-lug 10, the inner side or edge of which is inclined, as shown more clearly at 10^a in Fig. 6. The threaded enlargement 7^a is provided on its outer surface with a vertical keyway or channel 11, in which is adapted to fit and slide the inner portion of a stop-key 12, this stop-key being provided in its outer side with a channel or recess 13, which, as indicated more clearly in Fig. 5 of the drawings, embraces an internally-threaded ring-nut 14, which engages the threads of the enlargement 7^a. The parts of my device are so arranged with reference to each other that when the ring-nut 14 is turned to a comparatively low point on the valve enlargement 7^a and the valve is turned to its upward limit the conical end of the needle-valve will have completely closed the lower end of the port 6. It being desired, however, to prevent the complete cutting off of the gas-inlet port 6 from the body of the valve-casing and allow a comparatively small amount of gas to escape therein, so as to maintain a continuous though comparatively small light at the burners, the ring-nut 14 is turned upward until the rotation of the valve results in the contact of the stop-key 12 with the inclined edge of the valve-casing projec-

tion 10, which contact prevents the further closing of the valve. From this operation it is obvious that the quantity of gas which may be permitted to escape through the port 6 will be limited by the position of the ring-nut 14 on the valve enlargement 7^a and the point on the incline of the lug 10, with which the key 12 contacts when the valve is turned in the direction of said lug.

From this construction and operation it will readily be understood that the necessity of employing the usual by-pass and a regulating device therefor in addition to the port 6 is obviated and that both the finger-piece of the valve and the regulating-nut 14 are in convenient position for operation, and the necessity for removing a globe which may surround the burners in order to change the limit of the movement of the valve is likewise obviated.

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

1. In a device of the character described, the combination with a casing having an inlet and an outlet, of a needle-valve piercing the casing and controlling the inlet, a stop device carried by the needle-valve externally of the casing and adjustable thereon toward and away from said casing, and a stop-shoulder upon the casing and having a beveled face lying in the path of the adjustable stop device for adjusting the limit of the endwise movement of the needle-valve.

2. In a gas-distributing chandelier, the combination with the valve casing or body having an internal distributing-chamber and gas-outlet burner-supporting arms, a gas-inlet pipe communicating with the upper portion of said valve-casing and a port connecting said inlet-pipe with said internal chamber, of a needle-valve having its upper portion intersecting the internal chamber and adapted to close the port, the body of said valve having a threaded engagement with the opening therein, and being provided with a threaded enlargement, said enlargement having a keyway therein, a nut carried on said valve enlargement and a stop-key car-

ried by said nut and working in said keyway, substantially as specified.

3. In a device of the character described, the combination with a valve-casing having an intermediate internal distributing-chamber, of burner-pipes communicating with said chamber, an inlet-pipe piercing the top of the casing, a port leading from the inlet-pipe to the chamber, an endwise-adjustable needle-valve piercing the opposite end of the casing and the chamber with its inner end controlling the port, and means adjustable upon the outer portion of the valve toward and away from the casing for engagement with the latter to limit the inward movement of the valve.

4. In a device of the character described, the combination with a valve-casing having an intermediate internal distributing-chamber, substantially radial horizontal burner-pipes piercing the casing and in communication with the chamber, an inlet-pipe piercing the upper end of the casing, an inlet-port leading from the inlet-pipe to the chamber, a needle-valve piercing the lower end of the casing with its inner end portion passing through the chamber and controlling the port, an intermediate portion of the valve-stem being screw-threaded and fitting a screw-threaded opening in the casing, the outer portion of the stem also being screw-threaded and provided with a finger-piece, a longitudinal keyway in the outer screw-threaded portion of the valve-stem, an endwise-adjustable key in said way, a nut adjustable upon the outer screw-threaded part of the valve-stem and fitted in a recess in the key to connect the two members for simultaneous movement, and a pendent stop-shoulder upon the lower end of the casing at one side of the valve-stem and provided with an inclined face in the path of the inner end of the key to limit the inward adjustment of the needle-valve.

JACOB C. JENNINGS.

In presence of—

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