

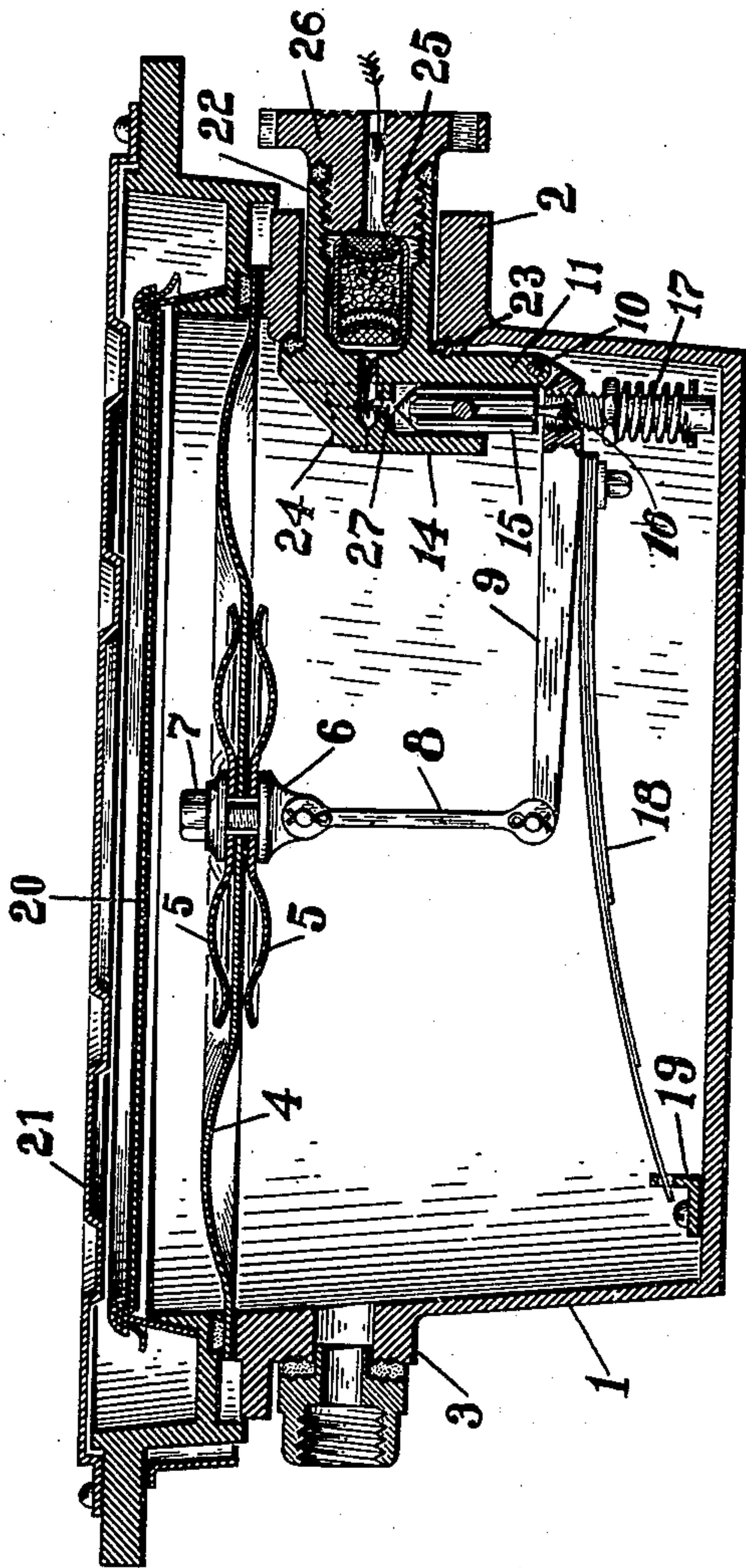
No. 742,775.

PATENTED OCT. 27, 1903.

R. M. DIXON.
REGULATOR FOR GAS SUPPLY SYSTEMS.

APPLICATION FILED JULY 27, 1901.

NO MODEL.



Witnesses:
Lindeley Schepmeyer
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UNITED STATES PATENT OFFICE.

ROBERT M. DIXON, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO THE SAFETY CAR HEATING & LIGHTING COMPANY, A CORPORATION OF NEW JERSEY.

REGULATOR FOR GAS-SUPPLY SYSTEMS.

SPECIFICATION forming part of Letters Patent No. 742,775, dated October 27, 1903.

Application filed July 27, 1901. Serial No. 69,881. (No model.)

To all whom it may concern:

Be it known that I, ROBERT M. DIXON, a citizen of the United States, residing at East Orange, Essex county, New Jersey, have invented certain new and useful Improvements in Regulators for Gas-Supply Systems, of which the following is a specification.

My invention relates to regulators for gas-supply systems, and will be described with particular reference to the Pintsch regulator, upon which the invention is designed to be an improvement.

In the accompanying drawing I have illustrated a section through the Pintsch regulator having my improvement applied thereto.

Although my improvement is an improvement of the regulator as a whole, in that its operation is thereby rendered more efficient, the particular location of the particular improvement is at the inlet end of the regulator, and consequently that portion of the regulator will be described with greater detail, as the other parts of the regulator remain the same.

In the drawing, 1 indicates the body-casting of the regulator, provided with an inlet nipple or passage 2 and an outlet nipple or passage 3.

4 is the usual leather diaphragm, to which diaphragm clamps 5 are secured by the clamp-bolt 6 and clamp-nut 7. A suitable link 8 is pivoted at one end to the bolt 6 and the other end to the main lever 9, which is pivoted at 10 on a bracket 11, secured to the valve-casing 14. This valve-casing is bored for the reception of a valve 15, which is mounted upon a valve-stem 16, mounted to the lever by the usual spring adjustment 17. A leaf-spring 18 is secured at one end to the main lever 9 and projects into a spring-anchor 19 on the regulator-casing.

The regulator is or may be provided with the usual covers 20 and 21.

The valve-casing 14 is provided with an extension 22, which passes freely through the inlet-nipple 2 and is securely packed with a ring-packing 23, held in place on the regulator body or casing by a suitable screw or

screws 24. This extension is shown as disposed angularly with respect to the valve-casing and is bored or recessed to receive the sieve 25 and is screw-threaded to receive a bushing 26, by which the sieve is held in place. The gas entering through the bushing 26 passes through the angular passage 27 of the extension and the valve-casing and thence to the valve. By thus constructing the regulator I obviate the tendency formerly existing to permit leaks into the interior of the regulator. The only gas which can reach the inlet of the regulator has to pass through the inlet-orifice and by the point of the valve 15, and as the valve-casing and its extension are integral or mechanically continuous no objectionable leakage is possible, and as all gas must pass the regulator-valve 15 the regulation is accomplished in a very efficient manner.

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

In a regulator, the combination of a casing, a valve-casing located therein and supported by the wall thereof and having an integral, lateral extension projecting through the wall of the said casing, the said extension being apertured by an aperture extending at an angle to the valve-aperture therein and having also a recess of greater diameter than the aperture in said extension for the reception of a sieve, and screw-threaded for the reception of a bushing, a sieve located within the said recess, an externally-screw-threaded bushing seated in the said extension and serving to hold the same in place, a valve located in the said valve-aperture, a diaphragm and means intervening between the diaphragm and the valve cooperating with said valve.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 16th day of July, 1901.

R. M. DIXON.

Witnesses:

GEO. E. MORSE,
C. A. McCUNE.