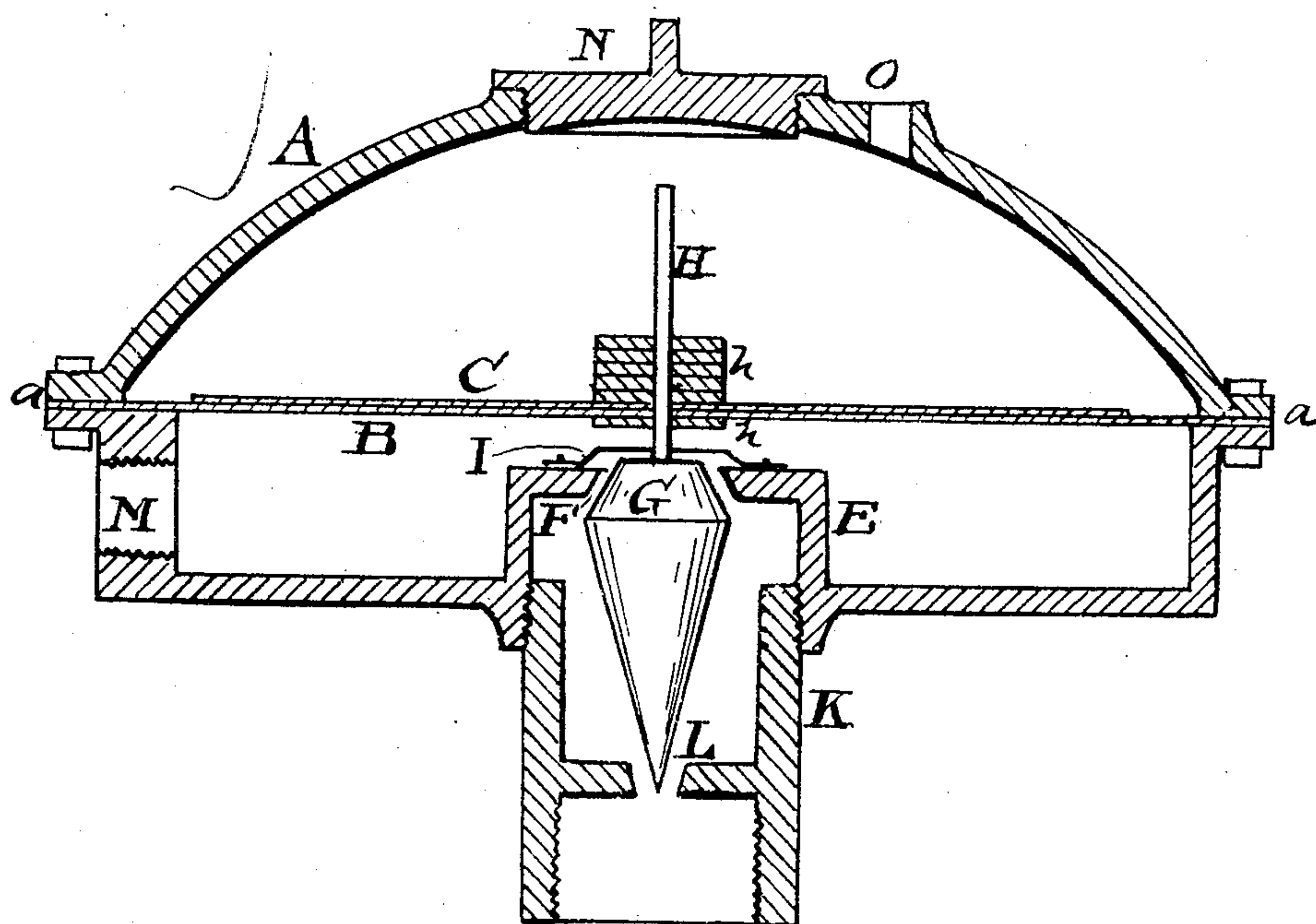


No. 785,747.

PATENTED MAR. 28, 1905.

J. V. MATHIVET.  
GAS PRESSURE GOVERNOR.  
APPLICATION FILED DEC. 19, 1904.



Witnesses:

E. A. Tibbitts

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# UNITED STATES PATENT OFFICE.

JEAN VICTOR MATHIVET, OF CLEVELAND, OHIO.

## GAS-PRESSURE GOVERNOR.

SPECIFICATION forming part of Letters Patent No. 785,747, dated March 28, 1905.

Application filed December 19, 1904. Serial No. 237,402.

*To all whom it may concern:*

Be it known that I, JEAN VICTOR MATHIVET, a citizen of the United States of America, and a resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Gas-Pressure Governors, of which the following is a specification.

This invention relates to improvements in gas-pressure governors or regulators, having for its objects to provide an instrument that will automatically control, regulate, or govern the flow of gas to the different burners and also to provide a safety-valve to shut off the ingress of gas from the main in case of accident or the failure of supply of gas, which would leave burners open and allow the escape of gas. These results are attained by means of the mechanism illustrated in the accompanying drawing, in which the figure is a vertical section of my new governor.

A represents a round case for containing the mechanism, made in two parts, divided horizontally, and provided with flanges *a a*, by means of which the two parts are bolted together.

B is a diaphragm preferably made of canvas for strength and is secured in place between the said flanges *a a*.

C is also a diaphragm, of india-rubber or other suitable flexible material, attached to one side of the canvas with cement or other suitable means. The rubber is for closing the pores in the canvas.

E is an inlet-neck at the center of the lower part of the case A. It extends up into the case a short distance and is provided with a valve-seat F.

G is a cone-shaped valve attached to a vertical stem H, fixed to the diaphragm B by means of flanges, nuts, or washers *h h*.

I is a bridge over the valve-seat to serve as a guide for the valve-stem.

K is a downward extension of the neck E and which is to be connected to the main supply gas-pipe. In said extension is also provided a valve-seat L. The lower part of valve G is formed with a long tapering point adapted to fit in the seat L.

M is the outlet for gas in the governor.

N is a cover in the top of the case closing an opening through which the interior may be reached.

O is a vent-opening in the case A. Washers, as weights *h h*, are placed on the stem H for regulating the resistance necessary for aiding the diaphragm in its working against the pressure of the gas.

If there should be a failure of gas, the pressure would cease. Then the weight of the valve G would cause it to fall and close the emergency valve-opening at L. When gas is again supplied, the only way to start the governor is to remove the cover N, then pull upon the stem H to admit gas to the interior, then return the cover.

Having described my invention, what I claim is—

The combination of valve G having a short tapering upper member and a long tapering lower member, with neck E, valve-seat F in said neck, and the extension K having seat L, a stem H, and a diaphragm B, to which the valve G is suspended, and adapted to operate substantially as and for the purpose specified.

Signed by me at Cleveland, Ohio, this 16th day of December, 1904.

JEAN VICTOR MATHIVET.

Witnesses:

LLOYD A. MAPES,  
D. D. HOUSBERG.