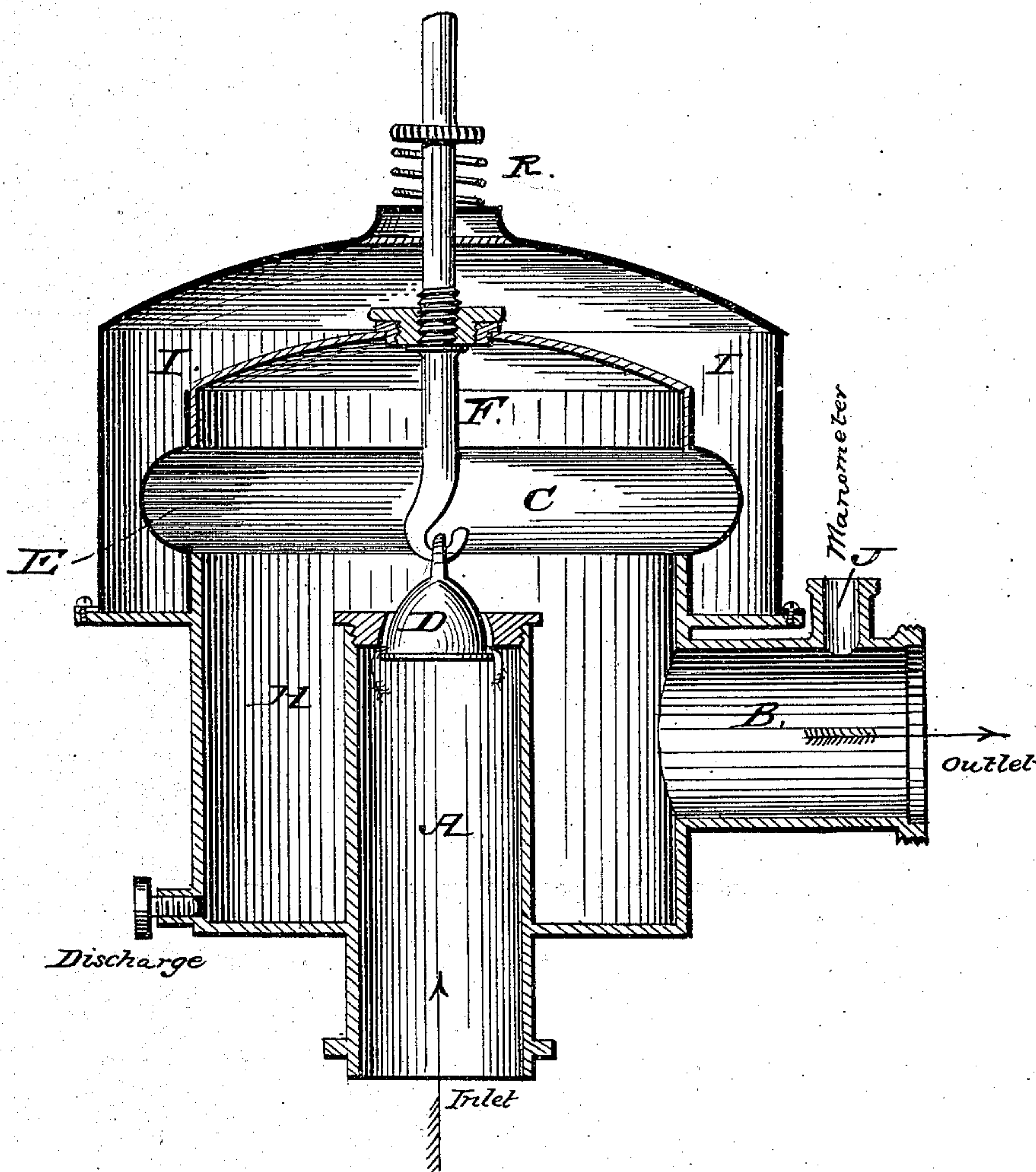


E. C. MALDANT.

Gas, Steam and Fluid Regulator.

No. 87,575.

Patented March 9, 1869.



Witnesses;  
Edward P. Flint.  
Chas. E. Smith

Inventor.  
Eugen Charles Maldant  
By his Atty  
Anno Broodweg



# United States Patent Office.

EUGENE CHARLES MALDANT, OF PARIS, FRANCE, ASSIGNOR TO  
MARIUS CAUNE, OF CRAWFORD, NEW JERSEY.

*Letters Patent No. 87,575, dated March 9, 1869.*

## IMPROVED REGULATOR FOR GAS, STEAM, AND OTHER FLUIDS.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern :*

Be it known that I, EUGENE CHARLES MALDANT, a citizen of Paris, in the Empire of France, have invented certain new and useful Improvements in Gas and Steam-Regulators; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawing, making part of this specification, and in which is illustrated a vertical longitudinal section of said regulator.

The object of my invention is to insure a steady flow of gas or steam from the boiler, generator, reservoir, or ometer, to and through the service-pipes and burners, which object I accomplish as follows; that is to say—

I introduce the steam or gas into a receiving-pipe, A, set in the lower part of a metal chamber, and the upper end of this pipe I fit into a cone-shaped valve and seat, substantially in the manner shown by D.

The said chamber, H, I cover with a second chamber, or cap I, through the top of which I pass the valve-rod F, to which is attached the valve D, and on the top of said cap I, and under a screw-nut on said valve-rod, I arrange a spiral spring, R, to assist the operation of the valve.

Under the cap I, and on the valve-stem, or rod, I arrange a cap, L, the lower flange of which I attach to the upper part of the chamber H, by means of a flexible connection, E, consisting of India rubber, leather, or other suitable fabric, substantially in the manner shown.

The chamber H is also fitted with a general service-

pipe, B, upon which there is a number of jet-pipes, or burners, shown by J.

Now, the operation of the regulator is as follows:

The valve is first adjusted to the desired position by means of the screw R, and the cap L and flexible connection E are screwed up to resist the required pressure. The steam or gas is then let into the pipe A, and continues to flow, in a steady stream, up around the valve, into the chamber C and service-pipe B, to supply the jets J, and the regulator, as long as the pressure of the gas or steam remains uniform, will remain inactive; but as soon as the pressure of steam or gas is increased in the boiler or ometer, or too large a supply let in, the cap L will be forced up, and the valve partially closed; or in case one of the jet-pipes or burners be shut off, by which the consumption of gas or steam through the outlet is partially stopped, the pressure in the chamber C will be increased, the valve partially closed, and so on, thus regulating the flow of gas or steam, and maintaining a uniform pressure in the service-pipe.

Having now described the nature and extent of my invention,

I claim, and desire to secure by Letters Patent—

The new and useful manufacture, consisting of a gas and steam-regulator, constructed substantially in the manner described.

E. MALDANT.

Witnesses:

M. KIEDEM,  
F. OLCOTT.