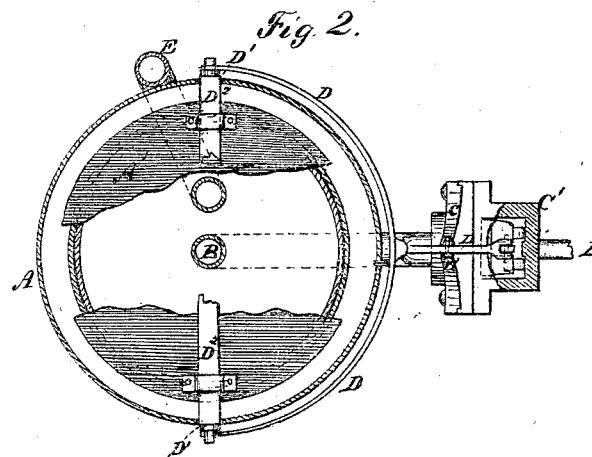
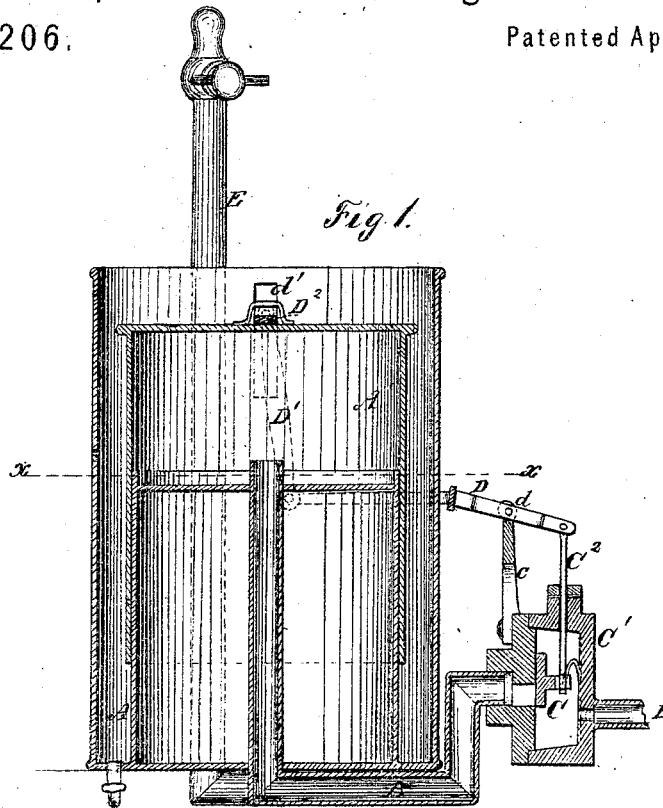


HENRY SCHUTTE.

Improvement in Gas-Regulators.

No. 114,206.

Patented April 25, 1871.



Witnesses.
A. Ruppert
J. W. Hunter

Inventor:
H. Schutte
per Edson & Co.
Atty's.

UNITED STATES PATENT OFFICE.

HENRY SCHUTTE, OF KANSAS CITY, MISSOURI.

IMPROVEMENT IN GAS-REGULATORS.

Specification forming part of Letters Patent No. 114,206, dated April 25, 1871.

To all whom it may concern:

Be it known that I, HENRY SCHUTTE, of Kansas City, in the county of Jackson and State of Missouri, have invented a certain improvement in apparatus for regulating the supply of gas to the burners from a high-pressure gas-holder; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a vertical section of my apparatus. Fig. 2 is a horizontal section on line *xx* of Fig. 1.

The same letters are employed in both figures to indicate identical parts.

This invention relates to an apparatus for regulating the quantity of gas supplied to the burners from a high-pressure gas-holder, and it is so constructed that the supply shall be uniform from the time of highest pressure in the holder until it is reduced to the normal pressure of the atmosphere, when the supply ceases.

It consists in the combination of the parts of which it is composed, all constructed and arranged to operate as hereinafter described and claimed.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The gasometer which I employ may be constructed in the ordinary manner of an annular tank, A, formed by an outer cylinder with a closed bottom and open top and a shorter inner cylinder and a third cylinder, A', which is placed with its open end over the interior cylinder of the tank and immersed in water therein. The gas from the reservoir where it is stored flows into the cylinder A' of the gasometer through the pipe B, which opens into it, as shown. The flow is controlled by a valve, C, in said pipe, represented in the present instance as a slide-valve arranged in a suitable

chest, C', which connects the ends of the pipe and is in close proximity to the gasometer. The chest is constructed with the usual stuffing-box, through which the valve-stem C² passes. The latter is linked to the short arm of a lever, D, which, being pivoted at *d* upon a standard, *c*, of the chest, embraces with its long bifurcated arm the tank of the gasometer, and is connected by rods D' D' to the projecting ends of a cross-bar, D². This cross-bar is secured upon the top of the cylinder A' of the gasometer, and projects at each end through vertical slots *d'* in the outer cylinder of the tank, to be coupled to the connecting-rods D'.

It is apparent that in lieu of the slide-valve shown and described any other valve or a simple cock may be employed with the same effect.

The valve and cylinder A' are connected together in such a manner that the former shall be open all the way when the latter has fallen to its lowest position and closed when said cylinder has been filled with gas, and has consequently been raised to its highest position.

E represents the service-pipe.

This apparatus is especially designed for use upon railroad-cars which are supplied with gas from a reservoir attached to them, in which the gas is stored under high pressure.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the gasometer A A', cross-bar D², links D' D'', lever D, valve C, and chest C', all constructed and arranged in relation to each other as shown and described.

In testimony whereof I have signed my name to the foregoing specification in the presence of two subscribing witnesses.

HENRY SCHUTTE.

Witnesses:

CHAS. LONG,
D. W. FOSTER.