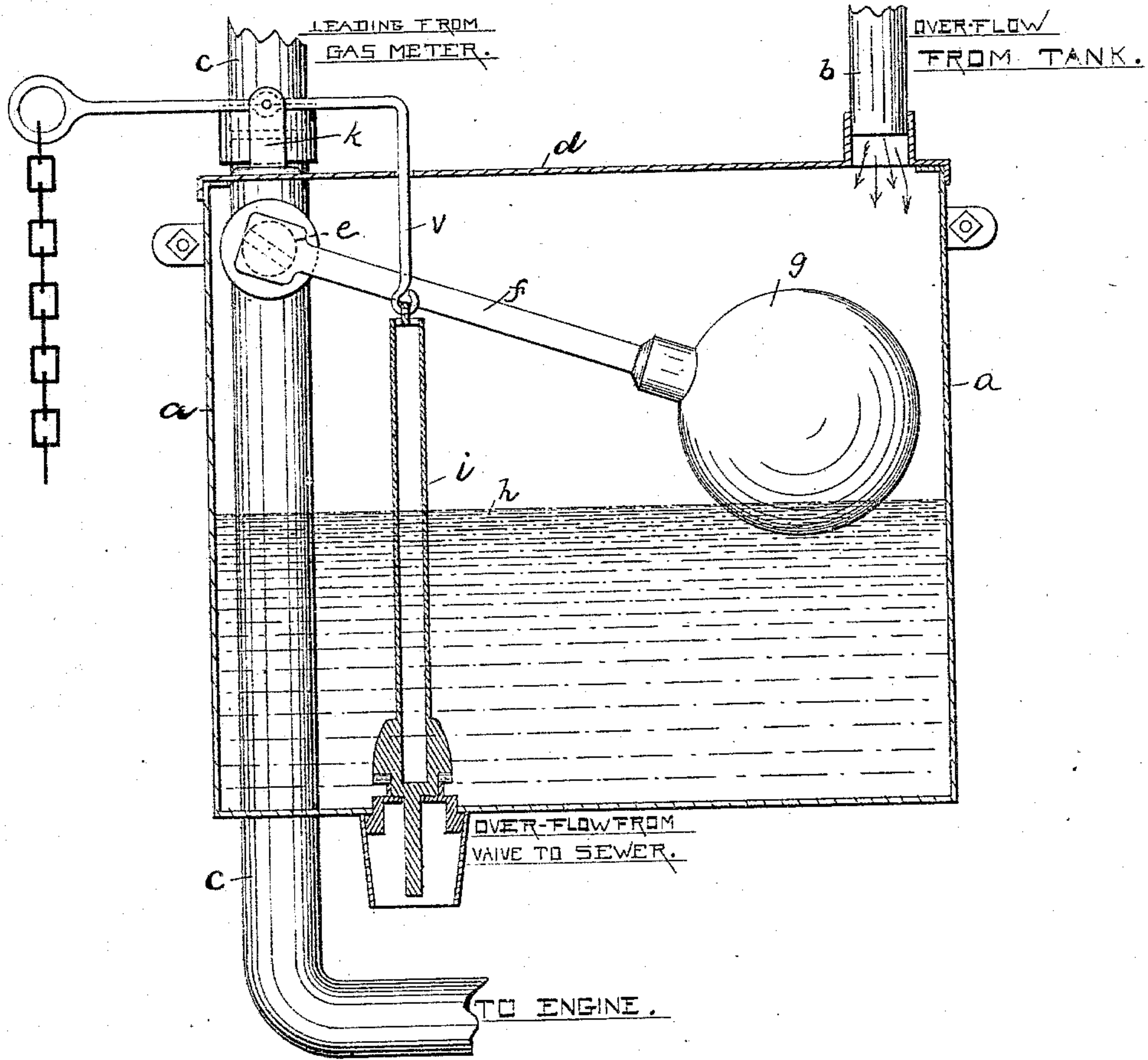


(No Model.)

H. ROCHEMOVITZ.
AUTOMATIC SHUT OFF VALVE FOR ENGINES.

No. 556,939.

Patented Mar. 24, 1896.



WITNESSES:

Chas. R. Michel.
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UNITED STATES PATENT OFFICE.

HENRY ROCHEMOVITZ, OF NEW YORK, N. Y.

AUTOMATIC SHUT-OFF VALVE FOR ENGINES.

SPECIFICATION forming part of Letters Patent No. 556,939, dated March 24, 1896.

Application filed March 27, 1895. Serial No. 543,321. (No model.)

To all whom it may concern:

Be it known that I, HENRY ROCHEMOVITZ, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Automatic Shut-Off Valves for Engines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to letters of reference marked thereon, which forms a part of this specification.

This invention relates to an automatic shut-off valve for gas-engines; and it consists of greater simplicity, cheapness, and durability, as well as to saving of gas consumed.

The object of this invention is to secure a shut-off valve for gas-engines, so as to stop the flow of gas from the meter to the gas-engine as soon as the tank is filled with water.

It has been of great annoyance to landlords in large cities where the pressure of water is inadequate to supply water to the top flat and who are required to use a gas-engine to force water to a tank or receptacle on the top of the house, and it often happens that while the engine is in operation the attendant is called to a different part of the building, and on his return he will find that the tank has been filled and is overflowing out of the overflow-pipe to the sewer, thereby losing a large amount of gas and water, and my invention obviates this great objection. Another great advantage that I secure by having the valve secured to the gas-pipe close to the under side of the cover is to overcome the great disadvantage of water entering the gas-pipe, thereby depreciating the burning facilities of the gas.

With these ends in view my invention consists of the peculiar features and combination of parts more fully described hereinafter, and pointed out in the claim, and is best understood in connection with the accompanying drawing, in which like letters indicate corresponding parts in said drawing.

The only figure shown is a central vertical section of the valve-box having the overflow plug-pipe in section.

In said drawing, *a* represents the valve-box made of any appropriate material and having at the top a tell-tale pipe *b* leading from the tank (not shown) and through which the surplus of water from the tank passes and enters into the valve-box. At the other end of the valve-box and passing through said box is a main gas-pipe *c* leading from the gas-meter to the gas-engine. (Not shown, as they do not constitute any part of my invention.) On this gas-pipe *c* beneath the cover *d* of the valve-box *a* is secured a valve *e*, having a valve-stem *f* connected to the float *g*, which in turn rests upon the water *h*, so that as the water from the overflow plug-pipe from the tank enters into the valve-box the float will gradually rise with the water and thereby decrease the flow of gas from the gas-meter to the gas-engine, and when the required amount of water is in the tank the valve will rise and stop the flow of gas automatically. I have provided an outlet plug-pipe *i*, having a lever *v* connected at the top and fulcrumed on a stationary post *k* to allow the water from the valve-box *a* to escape into the sewer, which would be necessary to set the machine in operation.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

The valve-box, a pipe *b* connected thereto from the tank, and a pipe leading therefrom to the sewer, combined with a gas-pipe extending through the box, a valve placed in the pipe, a float for operating the valve, a valve for controlling the flow of water to the sewer, and an operating-lever and chain connected to the valve whereby when the lever is operated and the valve raised so as to allow the water to escape from the box, the fall of the float will turn on the gas and start the engine, substantially as shown.

In testimony that I claim the invention set forth above I have hereunto set my hand this 20th day of February, 1895.

HENRY ROCHEMOVITZ.

Witnesses:

AUGUST GROSS,
OSCAR A. MICHEL.