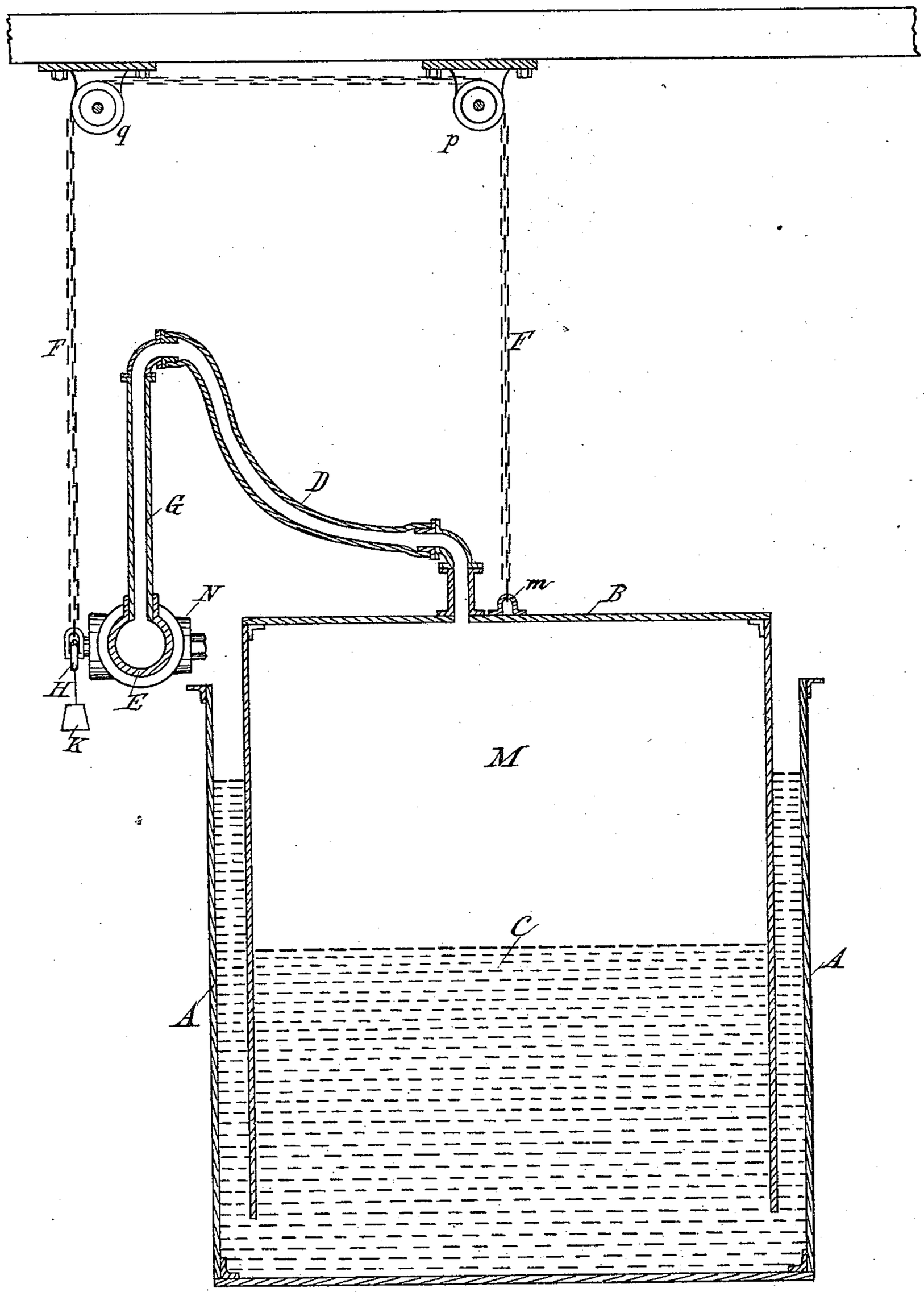
(No Model.)

J. N. PEW.

GAS REGULATOR.

No. 355,788. Patented Jan. 11, 1887.



WITNESSES:

H. K. Jennings.

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UNITED STATES PATENT OFFICE.

JOSEPH N. PEW, OF PITTSBURG, PENNSYLVANIA.

GAS-REGULATOR.

SPECIFICATION forming part of Letters Patent No. 355,788, dated January 11, 1887.

Application filed June 19, 1886. Serial No. 205,679. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH N. PEW, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented or discovered a certain new and useful Improvement in Gas-Regulators, of which improvement the following is a specification.

In the accompanying drawing, which makes part of this specification, is shown a gas-regulator provided with my improved flexible connection in a sectional view.

In the gas-regulators ordinarily used the gas is introduced into the tank from beneath, the gas-pipe being continued through the water-base and projecting into the chamber above. This is usually accomplished by elevating the tank on stilts, which is thus exposed in winter to the cold and is often frozen. An additional disadvantage of this system is found in the fact that the gas pipe occasionally fills with water and becomes useless to regulate the supply.

By my improvement it is intended to introduce the gas into the holder from above, which device will permit the tank to be sunk in the ground beyond the reach of frost, and renders it impossible for the water to interfere with the flow of gas.

In the drawing, A is the tank, filled to the required height with water, C; B, the holder floating therein; E, the gas-main, connected with the holder by the rigid pipe G, the flexible tube D, and suitable connections.

To the eye *m* is attached the chain F, which works over suitable pulleys, *p* and *q*, and is made fast to the handle H of a lever, which works a valve, N, in the main E. To the handle H is suspended the weight K.

In the operation of the regulator the valve N is opened and the chamber M fills. Should the supply of gas be too great, the holder B will rise, letting the weight K partially close the valve N. Should the consumption increase, the holder B, by reason of the decreased pressure, will fall and correspondingly open the valve N. The use heretofore of a rigid pipe prevented the attachment of the supply-pipe to the moving holder B.

I claim therefore—

The combination of a gas-main provided with a valve mechanism weighted, a holder operating said weighted valve mechanism, and connected with said gas-main by a flexible tube with suitable couplings, all substantially as and for the purposes specified.

In testimony whereof I have hereunto set my hand.

JOSEPH N. PEW.

Attest:

H. T. MORRIS,

WILLIAM L. PIERCE.