

(No Model.)

P. KELLER.
GAS PRESSURE REGULATOR.

No. 371,946.

Patented Oct. 25, 1887.

Fig. 1.

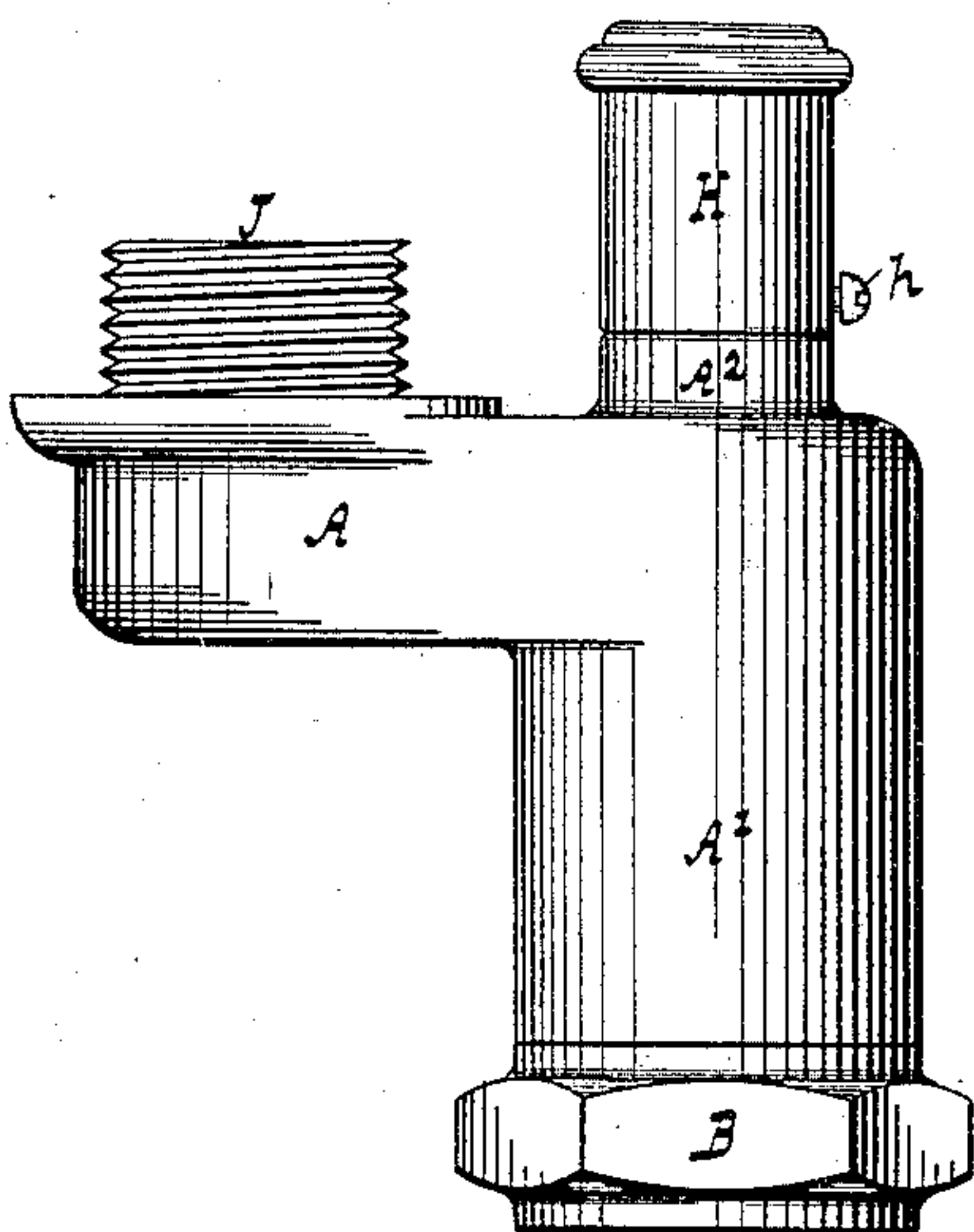


Fig. 2.

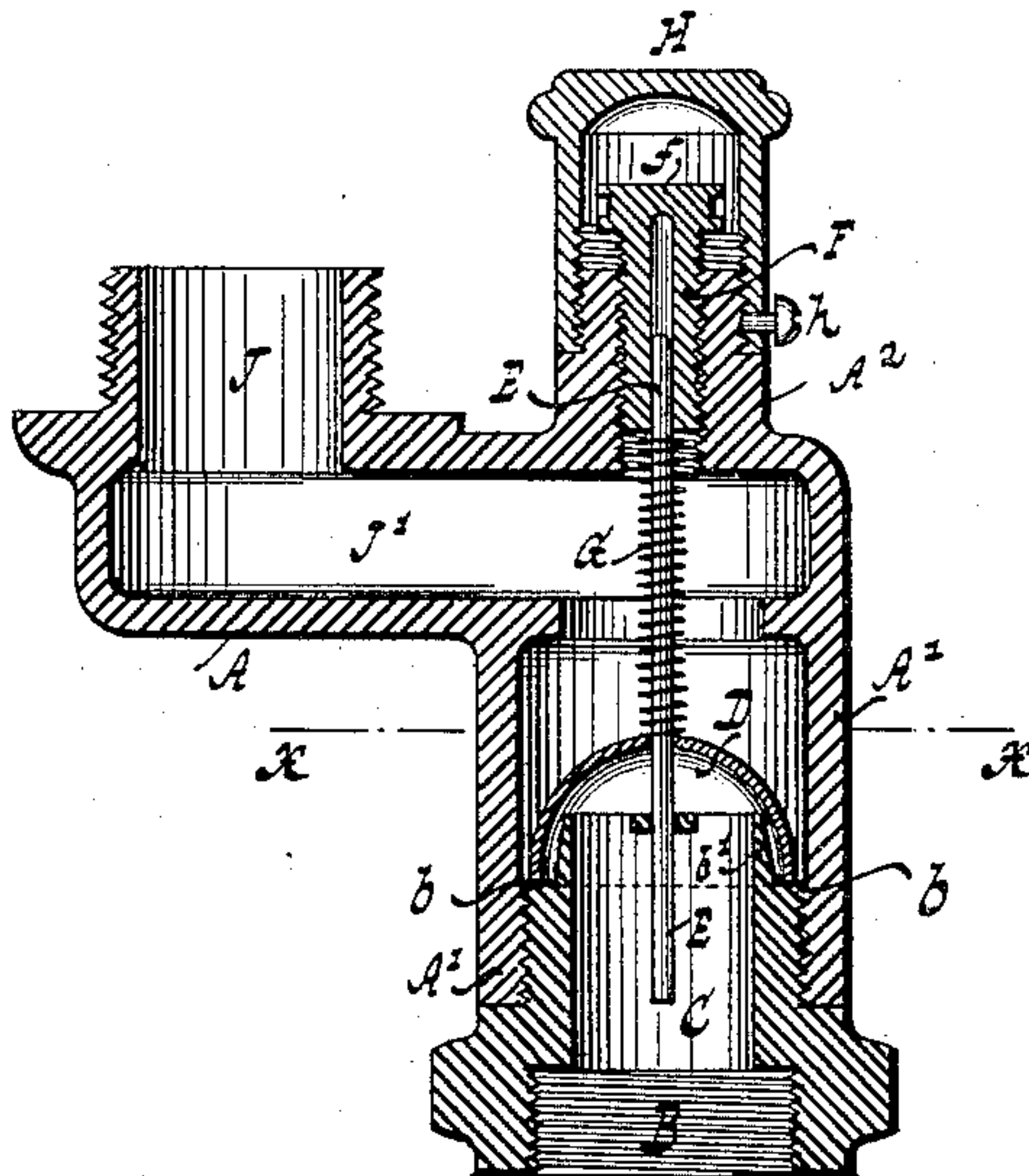


Fig. 4.

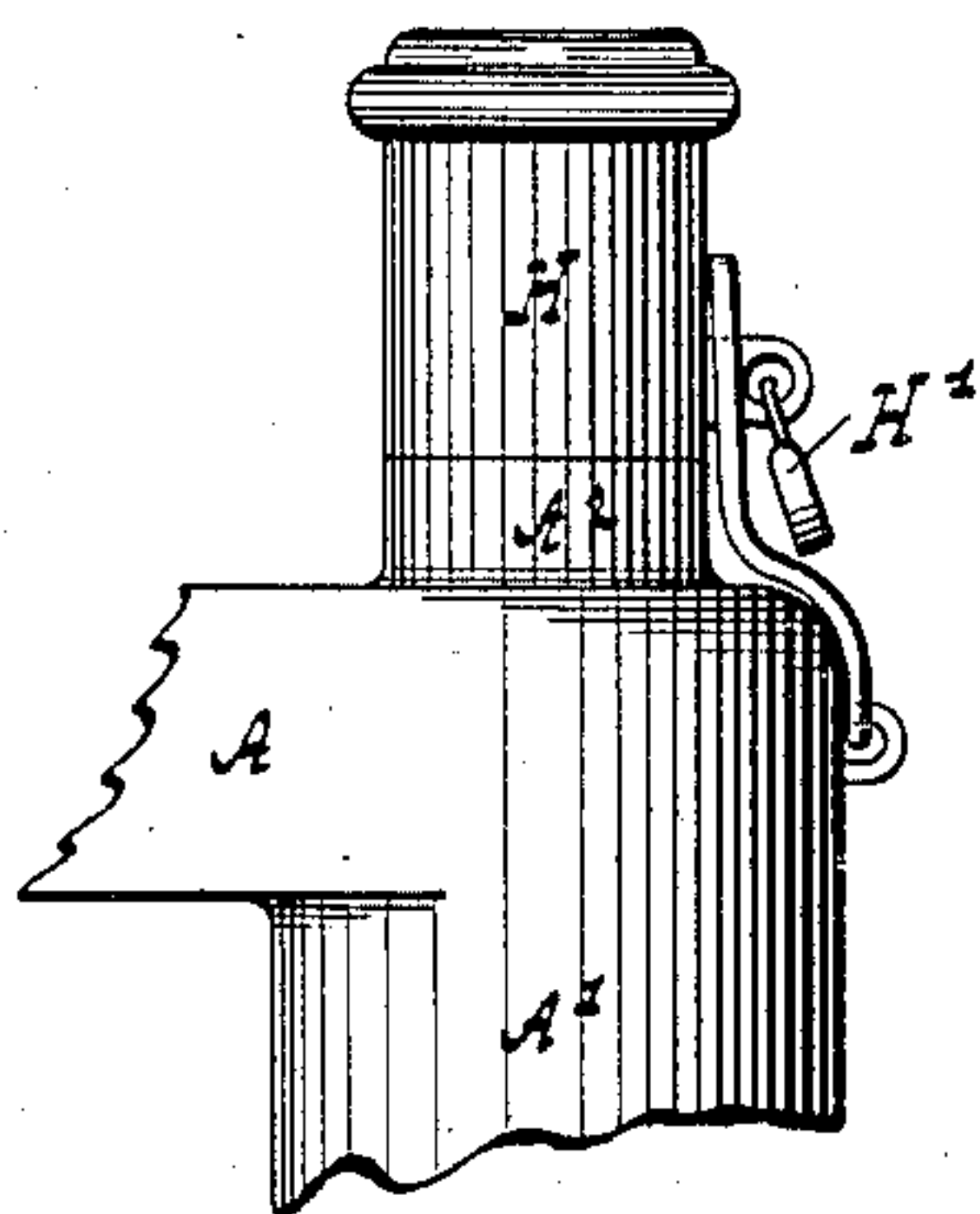
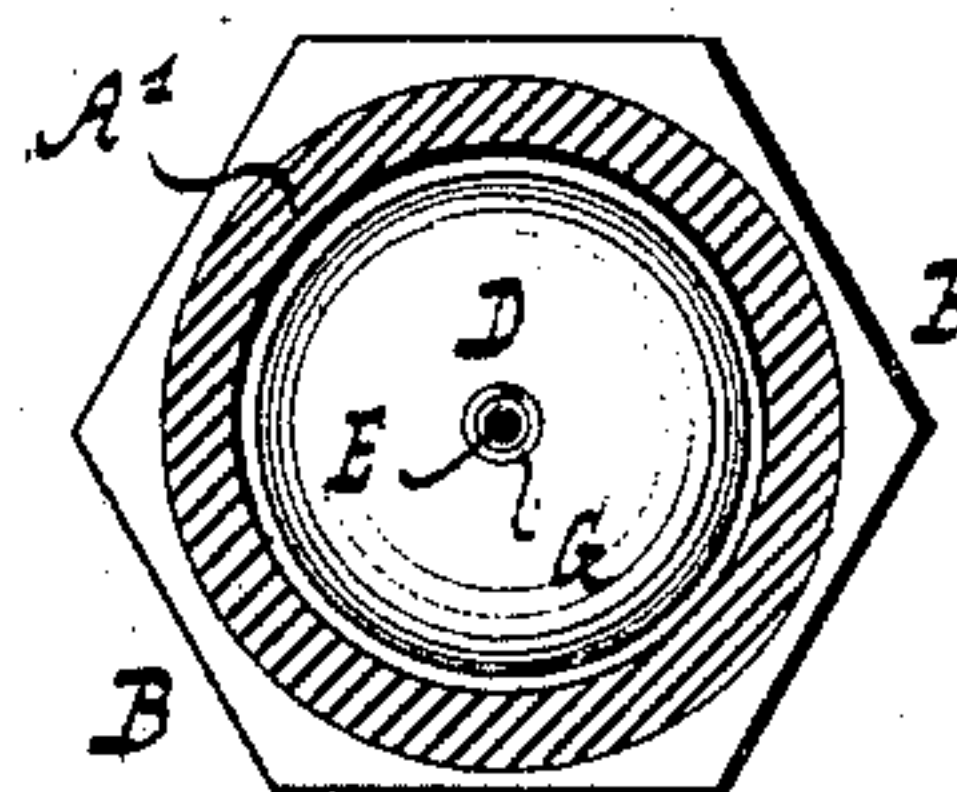


Fig. 3.



WITNESSES:
Alfred du Fauf.
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UNITED STATES PATENT OFFICE.

PETER KELLER, OF NEW YORK, N. Y.

GAS-PRESSURE REGULATOR.

SPECIFICATION forming part of Letters Patent No. 371,946, dated October 25, 1887.

Application filed March 3, 1887. Serial No. 229,573. (No model.)

To all whom it may concern:

Be it known that I, PETER KELLER, a citizen of the United States, residing at New York, in the county and State of New York, have
5 invented new and useful Improvements in Gas-Pressure Regulators, of which the following is a specification.

My invention relates to improvements in gas-pressure regulators, and has for its object
10 to produce a steady and uniform flow of gas to the jet, which I accomplish by the novel construction and combination of devices hereinafter described and claimed, reference being made to the accompanying drawings, in
15 which—

Figure 1 represents a side elevation of a gas-pressure regulator. Fig. 2 is a central vertical section of the same. Fig. 3 is a horizontal section in the plane $x x$, Fig. 2. Fig. 4 is a
20 side elevation, part being broken away, of a modification.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates a casing, having a branch, A', which is provided
25 with an internal screw-thread for the reception of a plug, B, which latter contains the gas-inlet C and an internal screw-thread, so that it can be coupled to a pipe leading from the meter. On the upper end of this hollow
30 plug B is formed a seat, b , for the valve D, which latter is guided on a spindle, E, having a bearing at its lower end in a bridge in the plug and at its upper end in a regulating-screw, F, Fig. 1, which turns in a thread
35 formed in an upper branch, A², of the casing. A spring, G, encompassing the spindle E, bears against the valve D and is pressed upon by the regulating-screw F, so that by turning the
40 latter the pressure upon the valve can be varied at will. The head f , Fig. 1, of the regulating-screw projects above the face of the branch A²; and to prevent the same from being tampered with, and also to insure a tight
45 joint, a cap, H, is provided, which is screwed upon the branch A², and can be secured in position by a suitable lock, such as a set-screw, h . Instead of using the set-screw h , the cap H may be secured by a padlock, H', as in Fig. 4.

The valve D is in the shape of a hollow hemisphere, the edge of which bears on the
50 valve-seat b , and said valve is additionally guided by a guide-ring, b' , on the plug B. The pressure in the street-main exceeding that of the spring G, the valve is lifted from its
55 seat as the gas is turned on at the burner, and the gas makes its way into the pipe leading to the burner through the low-pressure chamber J' and the lateral outlet branch J, formed on the casing H. By a proper adjustment of the
60 regulating-screw F the pressure of the gas in the chamber J' can be made any fraction of that in the street-main, and a uniform flow and steady pressure are obtained.

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

1. The combination of the casing A, having
65 the lateral outlet branch J and the lower and upper internally-screw-threaded branches, A' A², a plug, B, screwed into the lower branch, and having an inlet, C, and valve-seat b , a
70 valve, D, on said seat, a valve-stem, E, and a regulating-screw, F, engaging the screw in the upper branch and having a head, f , located above the upper end of said branch, by which
75 to turn the screw from the exterior of the casing, substantially as described.

2. The combination of the casing A, having the lateral outlet branch J and the lower and upper internally-screw-threaded branches, A' A², a plug, B, screwed into the lower branch,
80 and having an inlet, C, and valve-seat b , a valve, D, on said seat, a valve-stem, E, a regulating-screw, F, engaging the screw in the upper branch, and having a head, f , by which to
85 turn the screw from the exterior of the case, and the cap H, detachably locked upon the upper branch and covering and concealing the screw, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two sub-
90 scribing witnesses.

PETER KELLER. [L. S.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.