

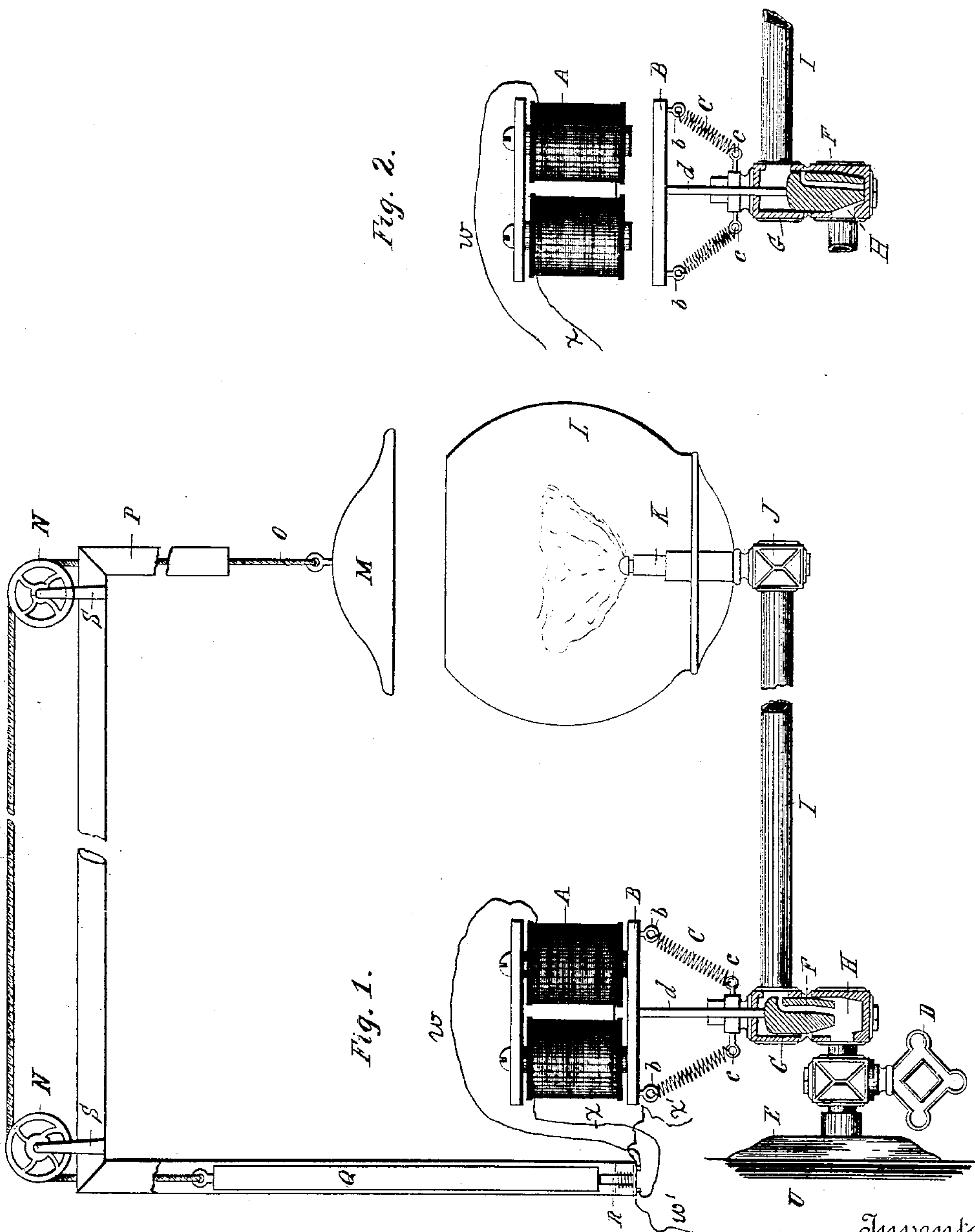
(No Model.)

A. STEINHILBER.

GAS EXTINGUISHER.

No. 398,805.

Patented Feb. 26, 1889.



Witnesses,  
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By His Attorney Singer & Elmer

# UNITED STATES PATENT OFFICE.

ADAM STEINHILBER, OF NEW YORK, N. Y.

## GAS-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 398,805, dated February 26, 1889.

Application filed July 27, 1888. Serial No. 281,233. (No model.)

*To all whom it may concern:*

Be it known that I, ADAM STEINHILBER, a subject of the Emperor of Germany, residing at the city of New York, in the county of New York and State of New York, have invented a new and useful Improvement in Gas-Extinguishers, of which the following is a specification.

The nature of the invention consists in the details of combination and construction, substantially as illustrated in the drawings, hereinafter described, and subsequently pointed out in the claim.

Figure 1 is a side view, partly in section and partly in elevation, illustrating my invention. Fig. 2 is a detail view, partly in section, further illustrating a part of the apparatus.

It has been found by experience that many awkward and ignorant persons have blown out the burning gas in their rooms without shutting the stop-cock. This has frequently caused the loss of life. It is to shut off the flow of gas as soon as the flame is extinguished, and so prevent any such evil consequences, that my invention has been devised.

In the example of my invention here given it is attached to a bracket gas-light. It may be in the same way attached to any other gas-light.

G H I J designate the bracket.

D designates the stop-cock, and K the burner; E, the flange against the wall; U, the wall, and L the glass globe.

In the joint G H is placed a key, F, perforated as illustrated, which while in the position illustrated in Fig. 1 gives free egress to the gas, but when in the position illustrated in Fig. 2 shuts off the gas so that it cannot escape. This key F has an upwardly-projecting stem, *d*, upon which is mounted an armature, B. On either end of this armature is an eye, *b*, connected to the eyes *c* of the gas-fixture by the springs C.

A designates an electro-magnet connected by the wires *w* and *x* with the circuit-closer R. This circuit-closer may be connected with a battery of any convenient form by the wires *w'* and *x'*. To operate this circuit-closer, the weights Q and M are almost evenly balanced on the cord O, which for this purpose passes over the pulleys N and N; but the weight M is slightly the heavier. All the mechanism is to be as illustrated in the drawings.

To light the gas, the operator, after having

turned on the stop-cock D, raises the weight M a little to allow the weight Q to come down on R and close the circuit. This energizes the magnet, which at once draws up the armature B and the key F and allows the gas to come to the burner. When the burner is alight, the currents of warm air which have been formed by the heat of the flame rising against the weight M will hold it up far enough to keep the electric circuit closed as long as the gas is burning; but as soon as the flame for any reason ceases to burn the weight M, being no longer sustained by the currents of warm air, falls, and, correspondingly raising the weight Q, breaks the electric circuit. As soon as the circuit is broken, the springs C, by their elasticity, draw the armature B away from the magnet A, and in so doing push down the key F, so as to cut off further flow of gas. If then the flame be extinguished, the gas will be instantly shut off, so that it cannot escape, and so no evil consequences may ensue.

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

The combination, with the gas-fixture G H I J K L, hereinbefore described, of the key F, perforated as specified, and working in the joint G H of said fixture, the stem *d*, connecting the said key F and the armature B, the armature B, mounted on the end of the stem *d* and working on the poles of the electro-magnet A, the spring C, connecting the eyes *b* of the armature and the eyes *c* of the gas-fixture, the electro-magnet A, mounted so as to operate on the armature B, as specified, and connected with the circuit-closer R by the wires *w* and *x*, the circuit-closer R, connected with the magnet A and a battery, as specified, the weight Q, working upon said circuit-closer, the weight M, hanging over the globe of said gas-fixture and connected with the weight Q, the cord O, connecting the weight M and Q and passing over the pulleys N N, and the pulleys N N, mounted so as to accommodate the cord O, all substantially as and for the purpose set forth.

In witness whereof I hereunto set my hand in presence of two witnesses.

ADAM STEINHILBER.

Witnesses:

FREDK. W. RUBIEN,  
C. E. McDONALD.