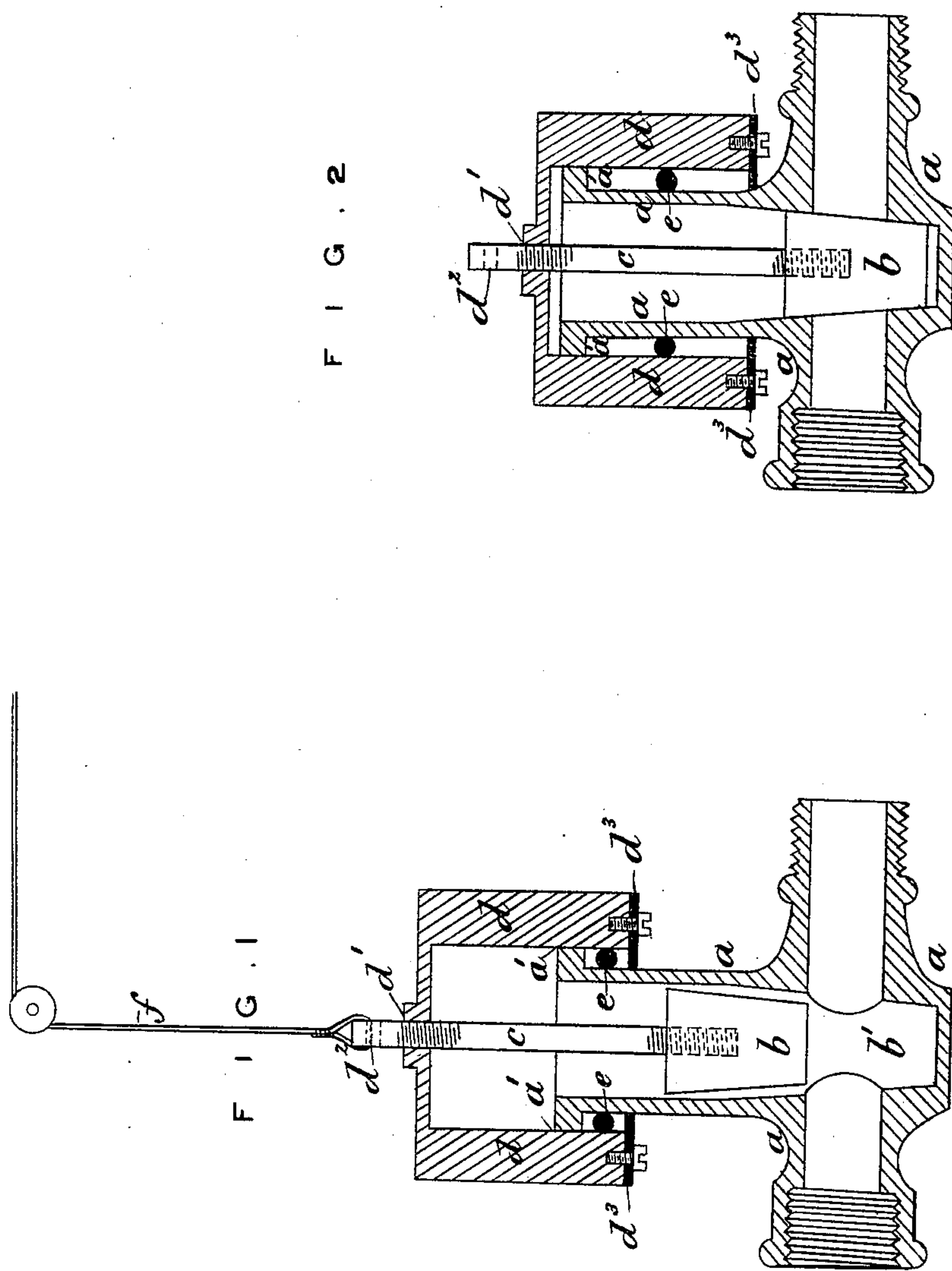


(No Model.)

G. NOBES.
SELF ACTING GAS COCK.

No. 354,021.

Patented Dec. 7, 1886.



Witnesses,

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Inventor,

George Nobes,

By

James L. Norris,

Atty.

UNITED STATES PATENT OFFICE.

GEORGE NOBES, OF HARROW ROAD, COUNTY OF MIDDLESEX, ENGLAND.

SELF-ACTING GAS-COCK.

SPECIFICATION forming part of Letters Patent No. 354,021, dated December 7, 1886.

Application filed August 21, 1886. Serial No. 211,574. (No model.) Patented in England May 21, 1884, No. 8,030.

To all whom it may concern:

Be it known that I, GEORGE NOBES, a subject of the Queen of Great Britain, residing at 27 Dudley Grove, Harrow Road, in the county of Middlesex, England, plumber, have invented a new and useful Improved Self-Acting Cock for Checking the Spread of Conflagrations, (for which I have obtained a patent in Great Britain, No. 8,030, dated May 21, 1884,) of which the following is a specification.

This invention has for its object to provide novel means for automatically shutting off the supply of illuminating gas to buildings in case of fire; and to such end the invention consists in the features of construction and combination of devices hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a vertical sectional view showing the cock open; Fig. 2, a vertical sectional view showing the cock closed.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, where—

The letter *a* indicates the inverted-T-shaped pipe or case of the cock, which is introduced at any suitable part of the supply-pipe leading from a gas-main to a building, and is provided at its upper end with a flange, *a'*. The plug-valve *b* is tapering and adapted to tightly fit a correspondingly-shaped valve-seat, *b'*, in the pipe or case, so that when the valve is in the seat the passage of gas through the supply-pipe to the building is prevented. The valve-rod *c* is secured at one end to the plug-valve, and at its other end is screwed gas-tight through an orifice, *d'*, in the top wall of a cup-shaped cap, *d*, having at its lower end an attached ring or flange, *d³*, the inner edge of which bears against the exterior surface of the vertical limb of the T-shaped pipe or case *a*. A rubber packing-ring, *e*, is placed between the flange *a'* on the pipe or case *a* and the

ring or flange *d³* on the cap *d*, which packing-ring is adapted to roll freely between the surfaces of the cap and the vertical limb of the T-shaped pipe or case, to form a gas-tight joint between these parts. The upper end of the valve-rod *c* is provided with an orifice, *d²*, for the attachment of a cord or fusible wire, *f*, which is carried over pulleys or other devices from room to room of a building in such manner that while the cord or wire is held under tension the plug-valve is suspended in the T-shaped pipe or case to permit the flow of gas through the supply-pipe to the building; but if the cord or wire is ruptured, as by being burned by a conflagration in the building, the plug-valve will automatically fall into its seat, and thereby shut off the gas-supply to the building.

The invention may also be utilized as a gas regulator or cock for regulating or entirely shutting off the flow of gas when desired, the means for effecting this consisting of the aforesaid cord or wire, or additional cords specially arranged for the purpose of raising and lowering the plug-valve.

Having thus described my invention, what I claim is—

The combination of the pipe or case *a*, having a flange, *a'*, and valve-seat *b'*, the movable cap *d*, fitted over the flange, the rod *c*, secured to the cap and adapted to be suspended by a cord or fusible wire, *f*, the valve *b*, attached to the lower end of the rod, the flange *d³* on the lower end of the cap and bearing against the pipe or case, and the packing *e* between the latter and the cap and above the flange on said cap, substantially as described.

Dated this 6th day of August, 1886.

GEORGE NOBES.

Witnesses:

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