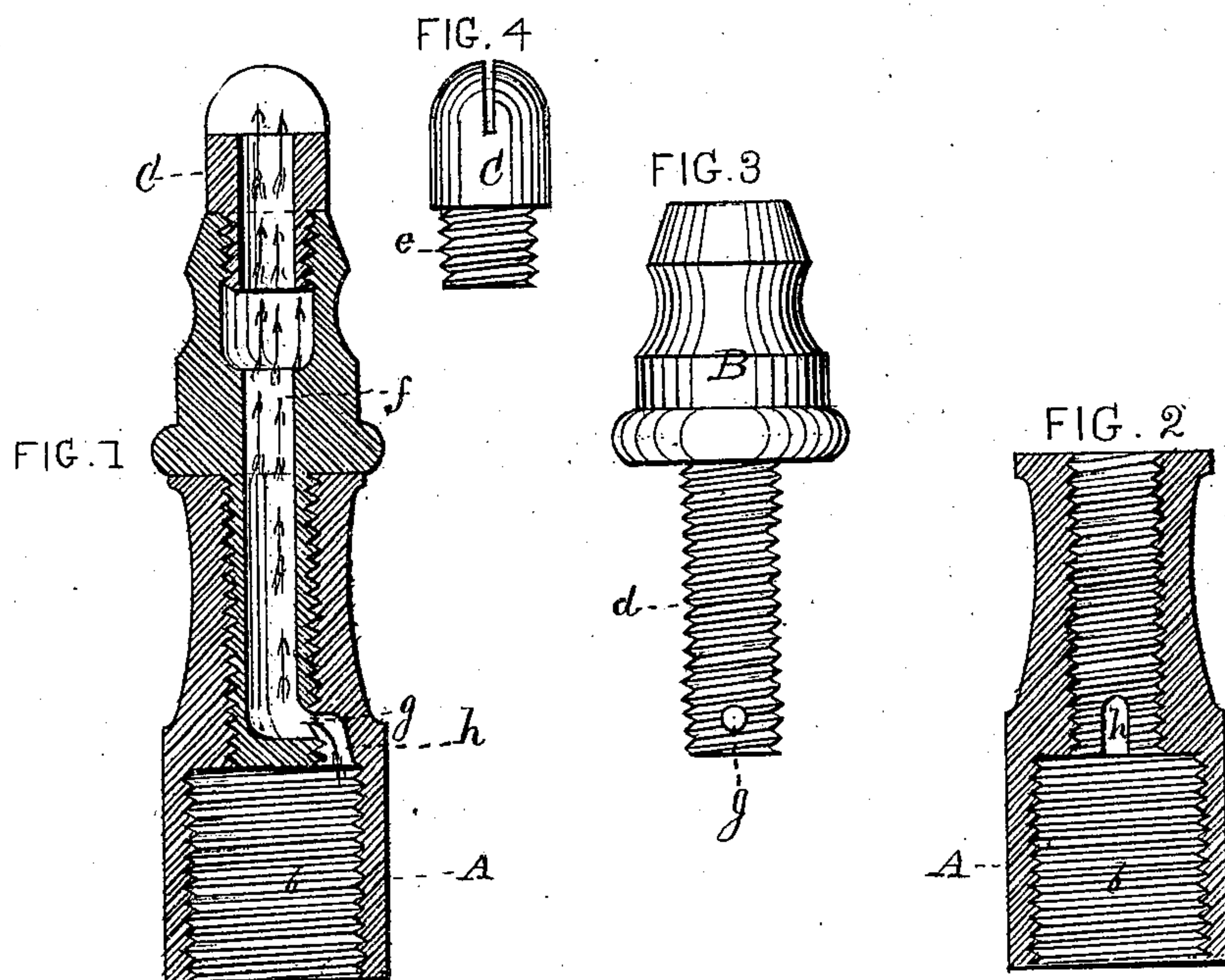


C. S. FORD.
Gas Burner.

No. 108,579.

Patented Oct. 25, 1870.



WITNESSES.

Thomas J. Dewley
Geo. E. Thompson

INVENTOR.

Charles S. Ford
By his Attorney
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United States Patent Office.

CHARLES S. FORD, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
CHARLES YOUNG, OF SAME PLACE.

Letters Patent No. 108,579, dated October 25, 1870.

IMPROVEMENT IN GAS-BURNERS.

The Schedule referred to in these Letters Patent and making part of the same.

I, CHARLES S. FORD, of the city of Philadelphia and State of Pennsylvania, have invented certain Improvements in Gas-Burners, of which the following is a specification.

The nature of my invention consists in the construction of the cap-piece of the burner, with a central screw-stem that connects with the pillar, and has a central bore to within a short distance of its lower end, in conjunction with a recess in the side of the central screw-opening of the pillar, with which it is connected to the gas-pipe in such manner that, when the cap is screwed tightly down, the said side opening in its screw-stem meets the side recess of the pillar, and permits the flow of gas equal to the area of the recess or side opening of the screw-stem. The reverse motion, or partial unscrewing of the cap, is given to regulate the flow of gas, as hereinafter described.

To enable others skilled in the art to which my improvement appertains to make and use my invention, I will now give a detailed description thereof.

In the accompanying drawing which makes a part of this specification—

Figure 1 is a vertical section of the improved burner, on an enlarged scale.

Figure 2 is a like view of the pillar A.

Figure 3 is a side elevation of the cap B.

Figure 4 is a like view of the nipple C.

Like letters in all the figures indicate the same parts.

A is the pillar, which has a central opening, *a*, provided with a screw-thread, *b*, for connecting it with the gas-pipe in the usual manner.

The cap B is connected with the pillar by means of the screw-stem *d*, and the nipple C is connected in like manner with the cap by means of the screw-stem *e*.

The pieces A B C, as shown detached in figs. 2, 3, and 4, are at right angles to their position in fig. 1.

The cap B has a central hole, *f*, which extends nearly to the lower end of the stem, at which point it is met by the opening *g*.

This opening, when the cap is screwed down tight into the position it assumes in fig. 1, communicates with the recess *h* in the side of the central opening of the pillar, so as to admit of the passage of the gas to the nipple, as illustrated by the arrows.

The flow of gas is regulated by turning the cap B in a reverse direction, so as to cut off, more or less, the communication between the opening *g* of the central hollow screw-stem *d*, on the side recess of the pillar A.

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

The recess *h* in the side of the central screw-hole *a* of the pillar A, in combination with the opening *g* of the screw-stem *d* of the cap B, the said parts being constructed and arranged in relation to each other, substantially as and for the purpose set forth.

In testimony that the above is my invention, I have hereunto set my hand and affixed my seal this 8th day of August, 1870.

C. S. FORD. [L. s.]

Witnesses:

STEPHEN USTICK,
THOMAS J. BEWLEY.