

E. P. GLEASON.
ARGAND GAS-BURNER.

No. 179,852.

Patented July 18, 1876.

FIG. 1.

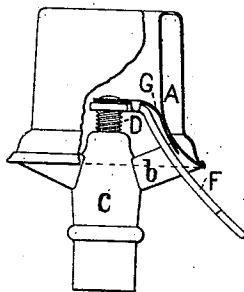


FIG. 2.

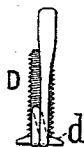
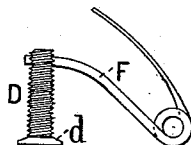


FIG. 3.



WITNESSES.

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IMPROVEMENT IN ARGAND GAS-BURNERS.

Specification forming part of Letters Patent No. **179,852**, dated July 18, 1876; application filed January 5, 1876.

To all whom it may concern:

Be it known that I, ELLIOTT P. GLEASON, of Brooklyn, Kings county, New York, have invented, made, and applied to use Improvements in the Construction of Argand Gas-Burners; and that the following is a full, clear, and correct description of my invention, reference being had to the accompanying drawing, making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a front view of an Argand gas-burner, a portion of the chamber being broken away or removed to show more fully my invention. Fig. 2 is a front view of Fig. 3, showing the spring flattened out. Fig. 3 is a view of a spring and lever sometimes used by me to carry out my invention.

In the drawing like parts of the invention are designated by the same letters of reference.

The nature of the present invention relates to improvements in the class of Argand gas-burners in which the flow of gas to the chamber of the burner is regulated by a movable valve operated by a lever; and consists in combining with the lever by which the valve is operated a spring attached to, and moving with, the lever, and having a bearing upon the under side of the chamber, so that after the valve has been moved into the desired position it shall be retained in such position by the spring bearing upon the under side of the chamber.

To enable those skilled in the arts to make and use my invention, I will describe the construction and operation of the same.

A shows the chamber of an Argand gas-burner, having attached to it the arms *b*, through which the gas is supplied to the chamber, and the neck *c*, through which the gas enters the arms *b*. D is a threaded spindle, provided at its lower end with a valve, *d*, and having attached to its upper end the lever F, by which the valve *d*, attached to the lower end of the threaded spindle D, is turned away from or toward the opening in the neck

c, to allow the gas to enter the arms *b*, or to prevent the entrance of the gas to the same. G is a spring, placed directly over the lever F upon the upper end of the threaded spindle D, and properly bent to have a bearing upon the interior or inner side of the chamber A; or the metal of which the lever F is formed may be continued in its manufacture, and twisted or wound spirally, so as to form a spring, as clearly shown in Fig. 3 of the drawings, and then continued in a direction parallel, or nearly so, with the lever F, the portion of the metal extending beyond the point of winding or twisting bearing upon the inner side of the chamber A.

Such being the construction, the operation is as follows: The spring has its bearing, as already stated, upon the inner side of the chamber A; and as the valve *d* is moved away from the opening in the neck *c*, through which the gas enters the arms *b*, by turning the lever F, the spring holds the threaded spindle in the desired position, so that there is no movement of the same, and the supply of the gas goes in regularly, which would not result were the threaded spindle from many causes free to move in the neck *c*, unless moved or turned by a party using the burner. Again, when the valve is closed upon its seat, the spring G keeps it closed, and thus prevents any escape or waste of the gas.

While I have shown a second form of spring, (see Fig. 3,) either form of spring may be employed, the result in either case being the same.

Having now set forth my invention, what I claim as new is—

In Argand gas-burners, in which the supply of gas is regulated by a movable valve actuated by a lever, F, a spring, G, having a bearing upon the inner side of the chamber A, in combination with said lever F, substantially as and for the purposes specified.

ELLIOTT P. GLEASON.

Witnesses:

E. F. GENNERT,
- JOS. F. BLACKMAN.