

G. MOONEY.
MANUFACTURE OF ARGAND GAS BURNERS.

No. 73,367.

Patented Jan. 14, 1868.

Fig. 1.

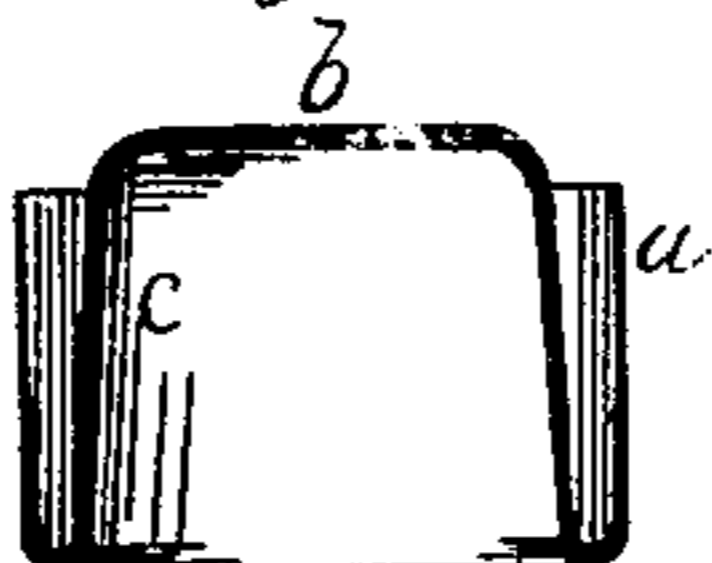


Fig. 2.

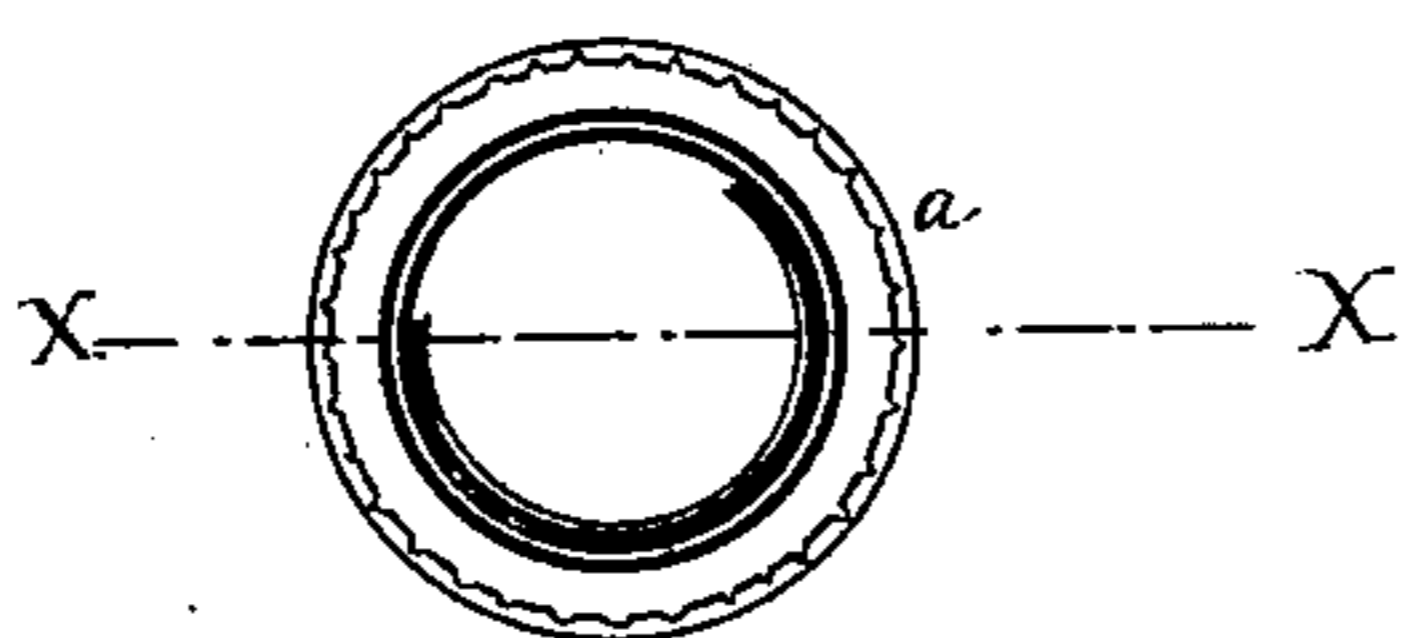


Fig. 3.

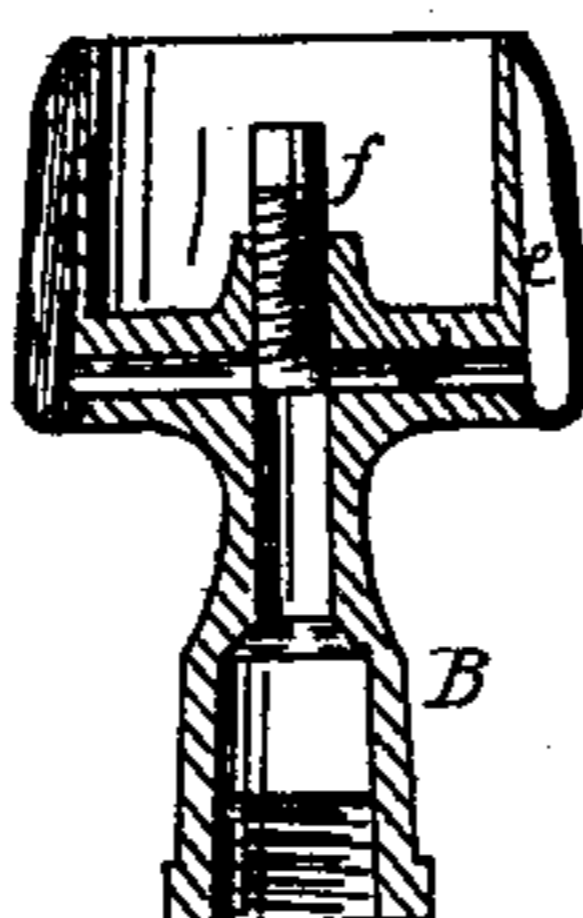
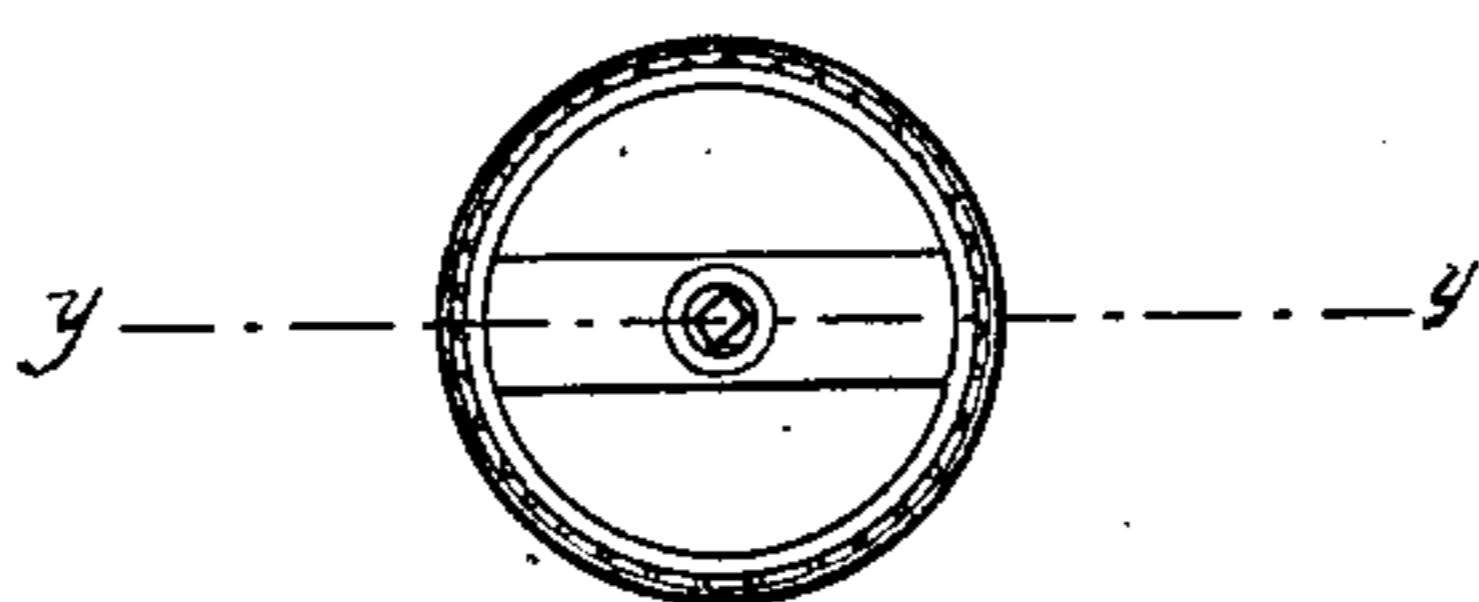


Fig. 4.



Witnesses:

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GEORGE MOONEY, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO HIMSELF, JOB ARNOLD, AND JAMES SHAW, JR., OF THE SAME PLACE.

Letters Patent No. 73,367, dated January 14, 1868.

IMPROVEMENT IN MANUFACTURE OF ARGAND GAS-BURNERS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE MOONEY, of Providence, Providence county, Rhode Island, have invented a new and improved Argand Gas-Burner; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This improvement relates to the manner in which the burner is formed, and to the method employed for obviating the noise common to the argand burner as at present constructed.

And the invention consists, firstly, in forming the upper chamber of the burner of one piece of sheet metal; secondly, in forming the jet-apertures without drilling; and, thirdly, in the employment of a screw inserted in the burner, adjusted to prevent the noise incident to burners of this class, as hereinafter more particularly described.

The figures in the drawing are designed to illustrate the method of forming the burner, and also the manner in which the regulating-screw is applied.

Figure 1 represents the burner formed and partially completed, it being a vertical section through the line *x x*, fig. 2.

Figure 2 is a top view of the outer ring or casing of the burner, showing grooves in its inner side.

Figure 3 is a vertical section of fig. 4 through the line *y y*, showing the manner in which the burner is constructed.

Figure 4 is a top view of the burner complete, showing the jet-apertures.

Similar letters of reference indicate corresponding parts.

The burner is formed of one piece of sheet metal, as represented in fig. 1, which is swaged or pressed into the form seen, showing a double ring. The outer ring *a* is grooved or chambered out on its inside, the grooves extending from the top or rim to one half, more or less, of its depth. These grooves or channels form, in connection with the inner ring, the gas-jet apertures. To complete the burner, the upper portion or cap of the inner ring is removed, and the top of the grooved ring *a* is pressed inward until it comes in contact with the inner ring *C*. The two rings thus being brought together complete the jet-apertures, and leave a chamber, *e*, beneath for the circulation of the gas. *B* is the burner-stand or shank, which is attached to the gas-fixture by the screw in its bottom end, as seen. *d* is the upper part, forming a cross-bar, to which the burner is attached. There are apertures through the stand and the bar, forming a T, which communicate with the chamber in the burner. *f* is a screw, which passes into the upper end of the stand, and is enclosed by the sides of the burner. By turning this screw up or down, an adjustable gas-check is formed, which prevents the gas from producing the noise so offensive in the ordinary argand burner. As the screw is inserted further into the stand the smoothness of the under surface of the latter is destroyed, and the gas allowed to impinge directly against the end of the screw, whose sharp edges destroy the smooth flow of gas, producing the effect above mentioned.

I do not claim the screw in itself considered, nor do I claim regulating the flow of gas in an ordinary gas-burner; but having thus described my invention,

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

1. Forming an argand gas-burner of one piece of metal, substantially as described.
2. Forming the gas-jet apertures through the top or rim of the burner without drilling, and substantially as described.
3. The screw *f*, forming an adjustable check, in combination with an argand burner, for the purpose of producing a still light, as herein shown and described.

GEORGE MOONEY.

Witnesses:

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