

J. B. FULLER.
Gas Burner.

No. 105,795.

Patented July 26, 1870.

Fig. 2

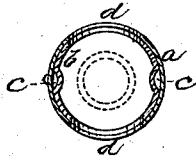
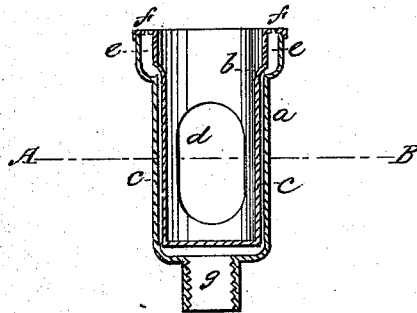


Fig. 1



Witnesses:

J. S. Elkins
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Inventors:

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United States Patent Office.

JIM B. FULLER, OF NORWICH, CONNECTICUT.

Letters Patent No. 105,795, dated July 26, 1870.

IMPROVEMENT IN ARGAND GAS-BURNERS.

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

Be it known that I, JIM B. FULLER, of Norwich, in the county of New London and State of Connecticut, have invented a new and useful Improvement in Argand Gas-Burners, of which the following is a specification.

My invention consists in an Argand gas-burner, constructed chiefly of two metal tubes, one being fitted tightly within the other, and provided with channels for conveying the gas to the chamber, and also provided with side air-passages for supplying air to the interior of the flame, as fully hereinafter set forth.

In the drawing—

Figure 1 is a vertical section, and

Figure 2, a horizontal section through the line A B. *a* represents a metal tube, forming the exterior of the burner, and also forming the nut by which the burner is secured to the gas-pipe.

The upper end of this tube is enlarged, so as to form the annular gas-chamber *e*.

b is a tube which forms the interior of the burner, and also forms the cover of the gas-chamber, or instead of this cover, an ordinary lava or porcelain tip may be used.

There are channels *c* pressed or otherwise made in the side of the tube *b*, through which gas passes up into the chamber, the tube *a* forming the outside of said channels. There may be one or more of these channels, and they may be made in either the inside or outside tube, or partly in both.

The inside tube is forced tightly into the outside one, and the air-passages *d* are made through both.

The top of the burner is perforated with small holes *f*, in the usual manner.

The nut *g* may be made separate, and may extend up nearly or quite to the bottom of the tube *b*, and small apertures may be made at the upper end of said nut, for the passage of gas into the burner.

It will be seen that the gas enters the burner at *g*, and passes upward through the channel *c* into the annular chamber *e*, and out at the holes *f*.

It will also be seen that the tight joint between the tubes *a* and *b* will prevent the escape of gas at the apertures *d*.

The form of the burner may be changed to facilitate the process of manufacture, the distinguishing feature of the invention being the fitting together of the tubes *a* and *b* with reference to the channels *c* and apertures *d*.

The chimney, and the arrangement for holding it, may be of any ordinary construction, and may be attached to the burner in any convenient manner.

I claim—

1. In an Argand burner, the tubes *a* and *b*, fitted together substantially as shown and described, and provided with the channels *c*, one or more, made between said tubes, substantially as and for the purpose specified.

2. The tubes *a* and *b*, the channels *c*, the air-passages *d*, and the chamber *e*, all constructed and arranged substantially as and for the purpose described.

J. B. FULLER.

Norwich, Connecticut, June 21, 1870.

Witnesses:

A. S. ELKINS,
S. A. ELKINS.