

J. F. TOZER.
Gas Burner.

No. 21,728.

Patented Oct. 5, 1858.

Fig. 1. D.

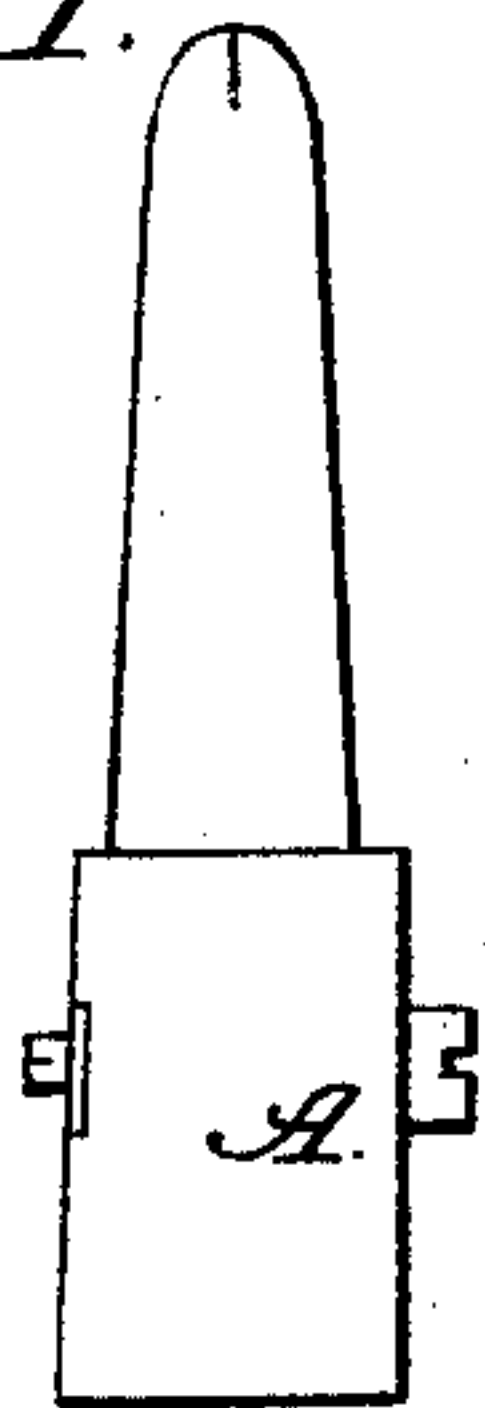


Fig. 2. D.

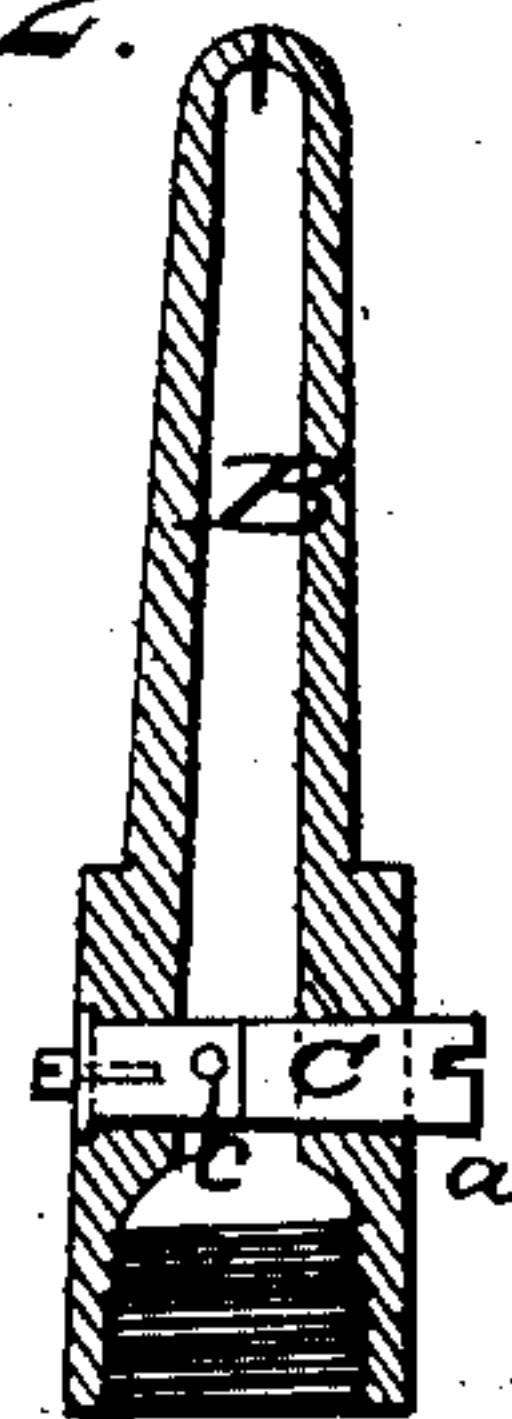
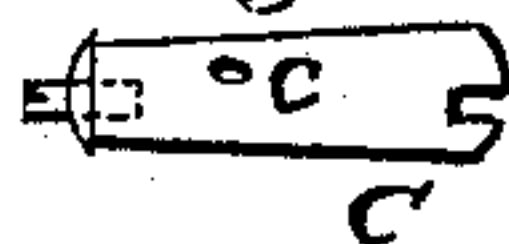


Fig. 3.



UNITED STATES PATENT OFFICE.

J. F. TOZER, OF BINGHAMTON, NEW YORK, ASSIGNOR TO GEO. W. GREGORY, OF SAME PLACE.

GAS-BURNER.

Specification of Letters Patent No. 21,728, dated October 5, 1858.

To all whom it may concern:

Be it known that I, JUNIUS F. TOZER, of Binghamton, in the county of Broome, in the State of New York, have invented an
5 Improvement in the Manner of Constructing Gas-Burners; and I do hereby declare that the following is a full and exact description thereof.

The nature of my invention consists in
10 providing a stop-cock to pass through the base or thick part of the burner, which has two or more gage holes or orifices through which the gas is admitted into the supplementary chamber, so that by turning it a
15 given distance it will vary the amount of gas to be consumed, from a two foot, to that of a four or six foot burner.

The accompanying drawings represent my improvement.

20 Figure 1 is a plan of the burner; letter A, the stop-cock held in place in the usual manner, by a screw at the end. All that is necessary, to change from a two foot burner to that of a four, or six foot, is to apply a com-
25 mon screw driver to the groove in the end of the stop-cock; the position of this groove indicates the number of feet which the burner is then calculated to consume per hour. When the groove is at right angle with the
30 burner tube as here represented, it is designed to consume two feet per hour, when

it is turned one quarter around and the groove parallel with the tube the size of the orifice *c*.

Fig. 2 is calculated for a four foot burner, 35
&c. Fig. 2 is a longitudinal section; letter B the supplementary chamber; *c, c*, the orifices in the two-way cock through which the gas enters said chamber, these orifices are graduated to correspond with the ignit- 40
ing aperture D so that with the ordinary pressure of gas there will be only a sufficient quantity admitted into the chamber to supply the requisite amount for consumption. If this chamber is too large, it is found that 45
it will injure the light, and for this reason I have found it necessary to introduce the stop-cock into the burner itself.

Fig. 3, represents the stop-cock, which should be accurately fitted, to prevent the 50
escape of gas, and kept in place by the ordinary method of a screw and washer at the end.

What I claim as my invention and desire to secure by Letters Patent, is— 55

The application to the common gas-burner, the two, or three-way turning-cock, for the purpose herein set forth.

JUNIUS F. TOZER.

Witnesses:

HENRY M. ALLEN,
WILLIAM E. ELLIS.