

No. 615,706.

Patented Dec. 13, 1898.

W. C. HOMAN.

PILOT BURNER.

(Application filed July 5, 1898.)

(No Model.)

Fig. 1.

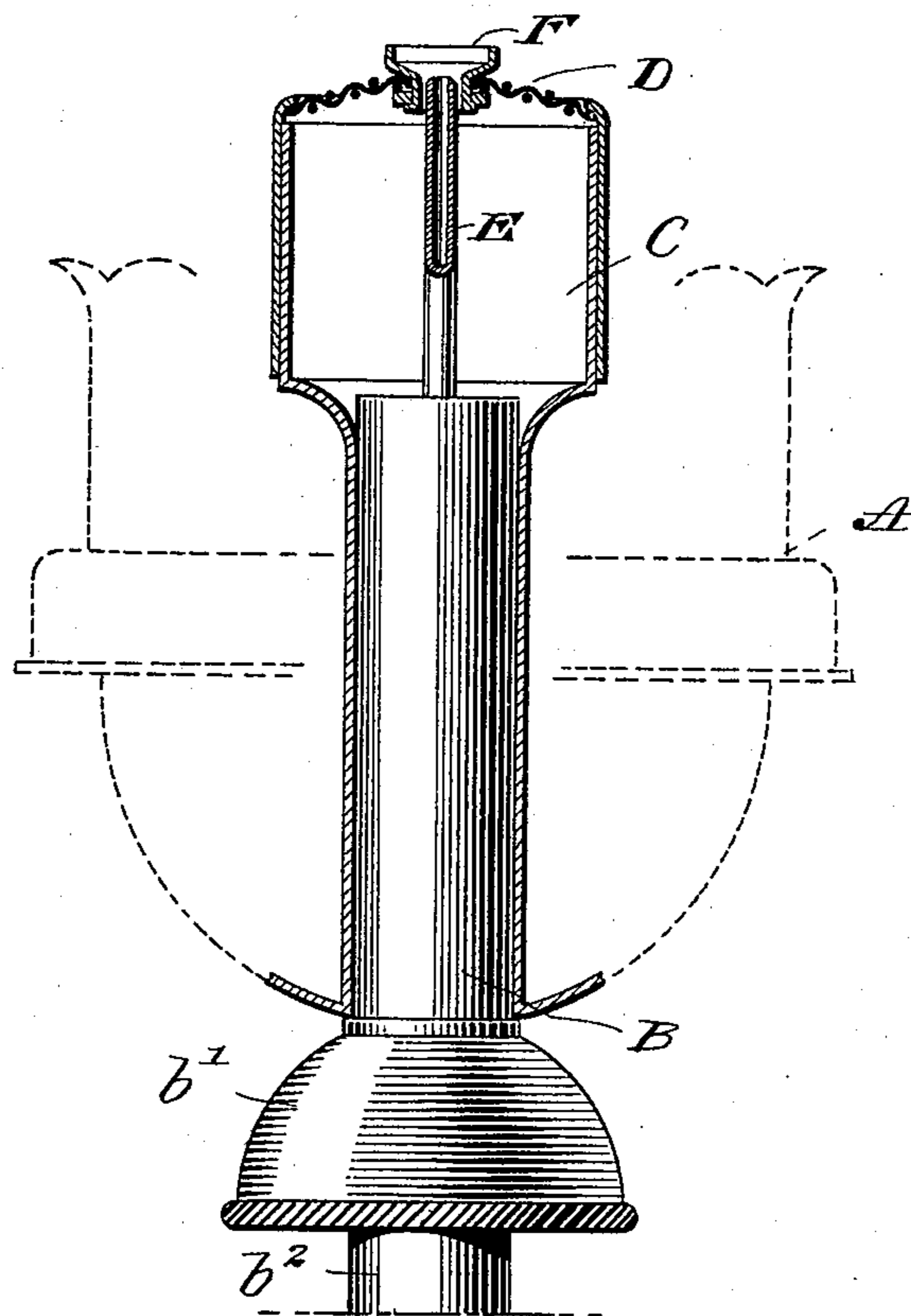
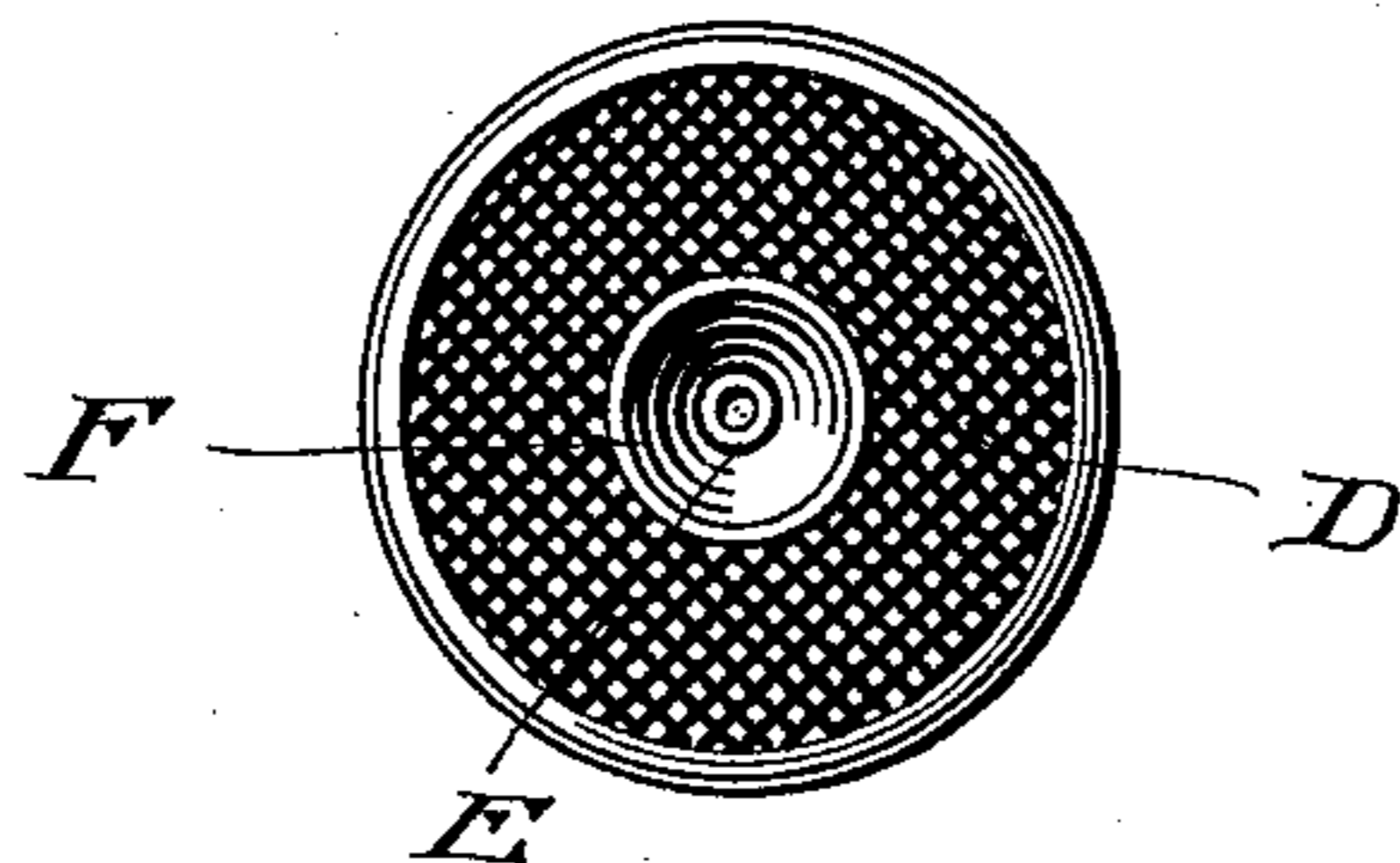


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM C. HOMAN, OF MERIDEN, CONNECTICUT, ASSIGNOR TO THE  
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## PILOT-BURNER.

SPECIFICATION forming part of Letters Patent No. 615,706, dated December 13, 1898.

Application filed July 5, 1898. Serial No. 685,108. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM C. HOMAN; a citizen of the United States, residing at Meriden, Connecticut, have invented certain new and useful Improvements in Pilot-Burners, of which the following is a full, clear, and exact description.

My invention relates to an improvement in the construction of pilot-burners, and especially in those in use with burners for incandescent gas-lamps; and my object is to provide a protection for the pilot-flame, so that the same will not be extinguished.

In the preferred construction of my device, Figure 1 represents, parts being in section, a side elevation thereof. Fig. 2 is a plan view of the top of the mixing-chamber, showing the pilot tube and protector.

A shows in dotted lines the gallery of an incandescent gas-lamp.

B is the burner-tube, conducting air from  $b^1$  and gas from  $b^2$  to the mixing-chamber C.

D is a gauze cap or partition for the mixing-chamber.

E is a pilot-tube extending in this embodiment up to the gauze above which burns the pilot-flame when the main passage for the gas is shut off as is common in this art.

F is a protector for the pilot-flame, which

in this embodiment consists of a dish-shaped flange having a hole in the center, through which the end of the tube projects.

It is found in devices of this class that when the pilot-flame is lighted a very slight draft will be sufficient to extinguish the same. Therefore some protection is necessary which will not interfere with the passage of the gas when the main burner is lighted.

It will be obvious that many variations of the construction herein shown may be made without departing from the spirit of my invention.

What I claim is—

In a device of the character described in combination, a shell inclosing a mixing-chamber, a foraminous partition for the same, a pilot-burner in the form of a small tube extending thereto, and an outwardly-flaring protecting-flange to receive and inclose the tip thereof having a hollow reduced neck passed through said partition and turned over underneath the same to fasten said flange in place.

Signed at Meriden, Connecticut, this 30th day of June, 1898.

WILLIAM C. HOMAN.

Witnesses:

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