(No Model.)

F. M. REED.

BURNER FOR NATURAL GAS.

No. 444,850. Patented Jan. 20, 1891.

Fig. 1.

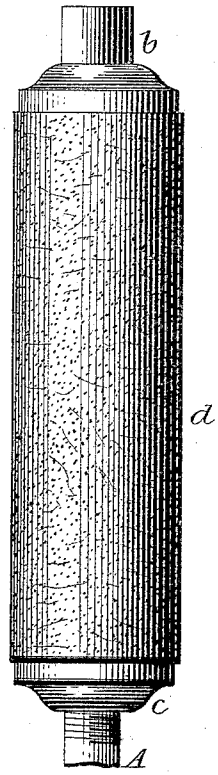
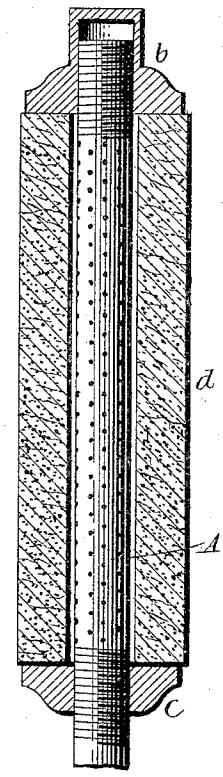


Fig 2.



WITNESSES:

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FRANKLIN M. REED, OF ANDERSON, ASSIGNOR OF PART TO STEPHEN C. KEESLING, GEORGE B. BEST, AND JNO. S. MOORE, ALL OF MUNCIE, INDIANA.

BURNER FOR NATURAL GAS.

SPECIFICATION forming part of Letters Patent No. 444,850, dated January 20, 1891.

Application filed June 16, 1890. Serial No. 355,660. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN M. REED, a citizen of the United States, residing at Anderson, in the county of Madison and State of Indiana, have invented certain new and useful Improvements in Burners for Natural Gas; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to burners for natural gas; and it consists in employing a burner composed of porous fire-clay through which the gas or other fuel is forced, the gas being ignited and consumed on the outer surface of the burner, all of which will fully appear from the following:

In the accompanying drawings, Figure 1 shows in elevation my preferred form of burner, and Fig. 2 a vertical central section.

Referring to Figs. 1 and 2, A indicates the supply-pipe, which is provided with the small perforations *a*, through which the gas passes. A cap *b* is screwed onto the upper end of the pipe A, and a similar cap *c* is adapted to be screwed onto the lower end. Between these caps and surrounding the pipe A is a sleeve *d*, which is composed of fire-clay of a very porous character to allow the gas to readily pass through and be ignited. Thus it will be seen that by my invention the gas in passing through the fire-clay is filtered and purified, and consequently gives out a light of increased illuminating and heating qualities. My burner is thus well adapted for using natural gas having great pressure by reason of the passage of the gas through the fire-clay, and the consequent reduction in the pressure.

I claim—

In a burner for natural gas, the combination, with a perforated supply-pipe, of a porous sleeve surrounding said pipe and constituting the burner.

In testimony whereof I affix my signature in presence of two witnesses.

FRANKLIN M. REED.

Witnesses:
ARTHUR BROWNING,
WILL T. NORTON.