

(No Model.)

C. A. STOCKSTROM.

VAPOR BURNER.

No. 261,403.

Patented July 18, 1882.

Fig. 1.

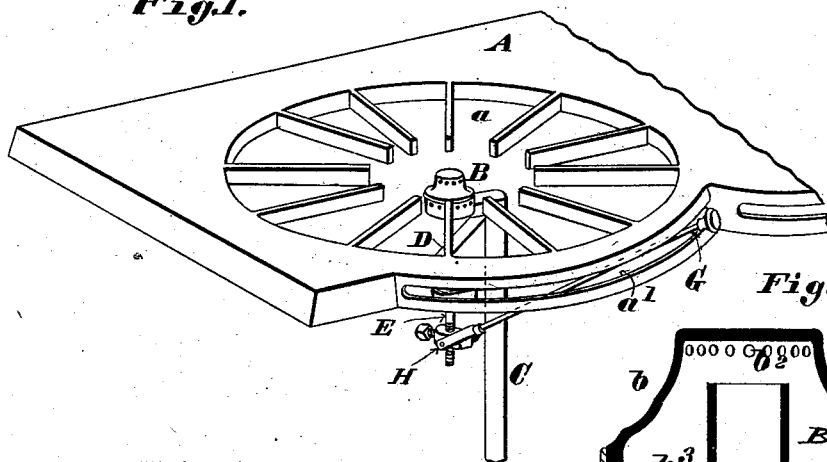


Fig. 2.

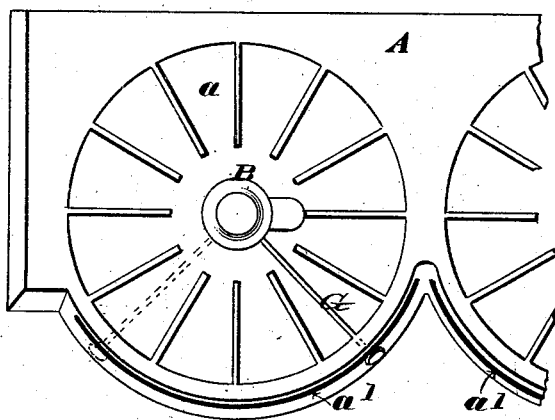


Fig. 6.

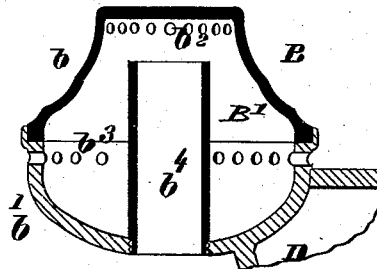


Fig. 4.

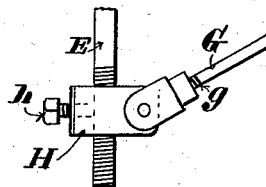


Fig. 3.

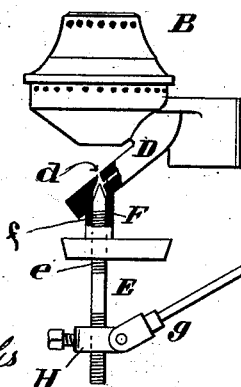
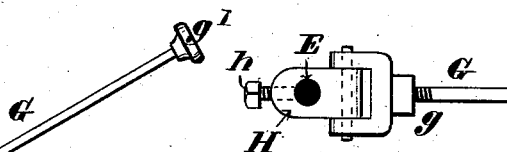


Fig. 5.



Attest:

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UNITED STATES PATENT OFFICE.

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VAPOR-BURNER.

SPECIFICATION forming part of Letters Patent No. 261,403, dated July 18, 1882.

Application filed April 5, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. STOCKSTROM, of St. Louis, Missouri, have made a new and useful Improvement in Vapor-Burners, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a view in perspective, showing that portion of a vapor-burner stove with which the improvement in question is immediately connected; Fig. 2, a plan of the parts shown in Fig. 1; Fig. 3, a side elevation of the burner; and Figs. 4, 5, and 6 details, being respectively a side and a top view of the mechanism used in connecting the needle and the needle-lever and a vertical section through the gas-chamber.

The same letters denote the same parts.

The prominent feature of this improvement is the means for operating the burner-valve.

In the drawings, A represents the top of a vapor-burner stove. The top has the usual burner-openings, such as *a*. The burner B is in the usual position, and is mainly of the usual construction, the oil being supplied thereto through the tube C, passing thence through the tube D to the orifice *d*, which is opened and closed by the needle-valve E. The latter is upheld in the tube F, being threaded at *f* and engaging in the tube or other suitable bearing, and so as to enable the valve, by rotating it, to be lowered or raised in the tube F, and thereby to open, graduate, or close the orifice *d*.

G represents a lever connected at one end, *g*, with the needle E, and extending thence upward or outward, and so as to bring its end *g'* into a position convenient for the operator to reach, the aim thereof being to provide means by which the operator can readily, and without being obliged to place his hand in the immediate vicinity of the burner, control and operate the burner, and also, by the position of the outer end of the valve-lever, determine the

extent to which the valve is opened. The outer end of the lever G can pass, as shown in Figs. 1, 2, through a slot, *a'*, in the top A, the slot serving to guide the movement of the lever, the operation being as follows: To open the valve the lever is moved to or toward one end—say the left-hand one—of the slot *a'*, as shown. This causes the valve to fall in the tube F and the orifice *d* to be opened. To close the valve the lever is swung in the opposite direction in the slot, and to partially close the orifice *d* the movement of the lever is correspondingly limited. The slot *a'* is suitably curved to enable the lever to extend always the same distance through the slot, and so as not to be in the way of the operator; but whether the valve-lever at its outer end is supported in the slot *a'* or is otherwise suitably upheld within reach of the operator, the position of the outer end of the lever to the right or to the left or at any intermediate point indicates the extent to which the valve is opened. At its lower or inner end the lever is jointed to a nut, H, that is capable of vertical adjustment on the valve E. The nut, when thus adjusted, is fixed upon the valve by means of the set-screw *h*. In this manner the valve can be adjusted as desired with reference to the orifice *d*, and afterward the lever G can be properly adjusted to the valve.

I claim—

1. The combination of the burner B, the vertically-arranged valve E, and the lever G, said valve and lever being jointed together and rotating together, and said valve rising and falling as the lever is swung around, substantially as described.

2. The combination of the top A, having the slot *a'*, the valve E, the burner B, and the lever G, substantially as described.

C. A. STOCKSTROM.

Witnesses:

C. D. MOODY,
SAML. S. BOYD.