

J. MERSEREAU.

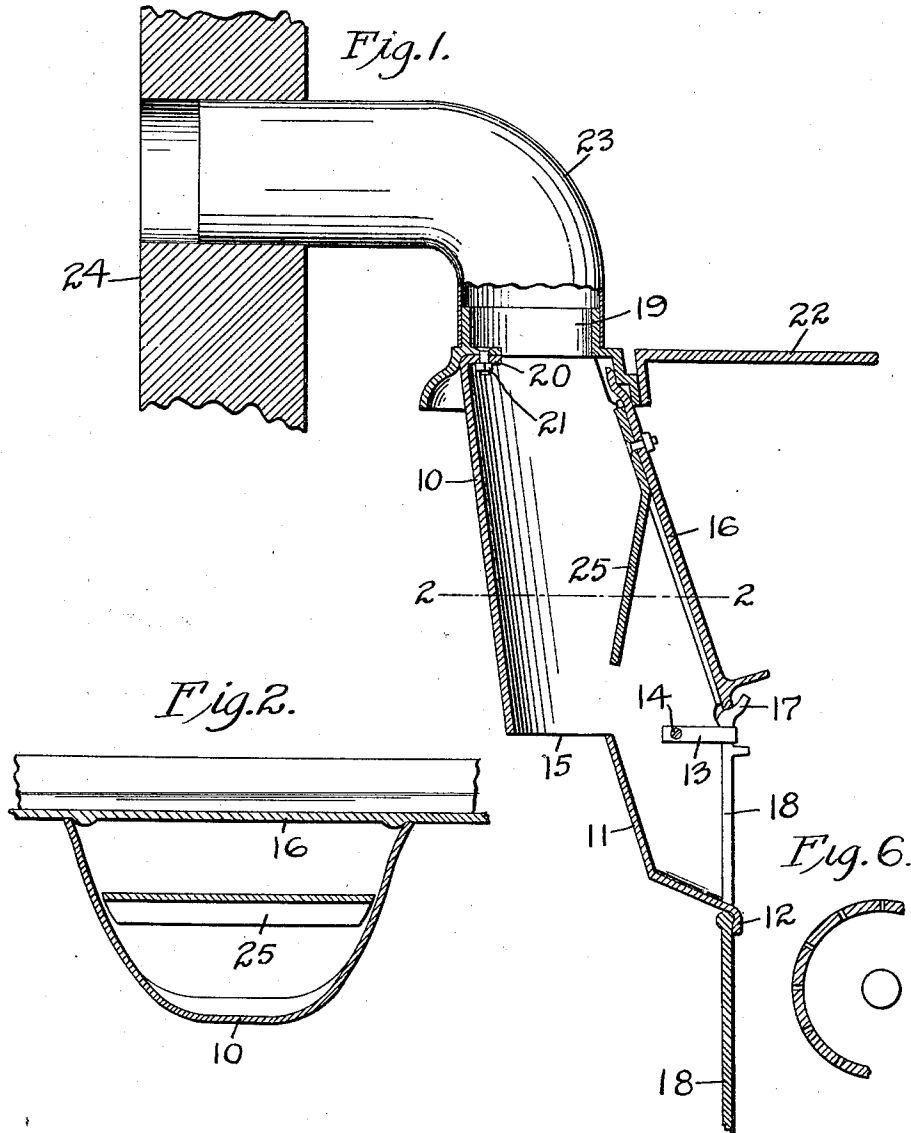
STOVE.

APPLICATION FILED MAR. 29, 1910.

1,009,085.

Patented Nov. 21, 1911.

2 SHEETS-SHEET 1.



WITNESSES:

Geo. A. Lemire
Dora L. Andersen.

INVENTOR:

Jacob Mesereau
BY
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2 SHEETS—SHEET 2.

Fig. 3.

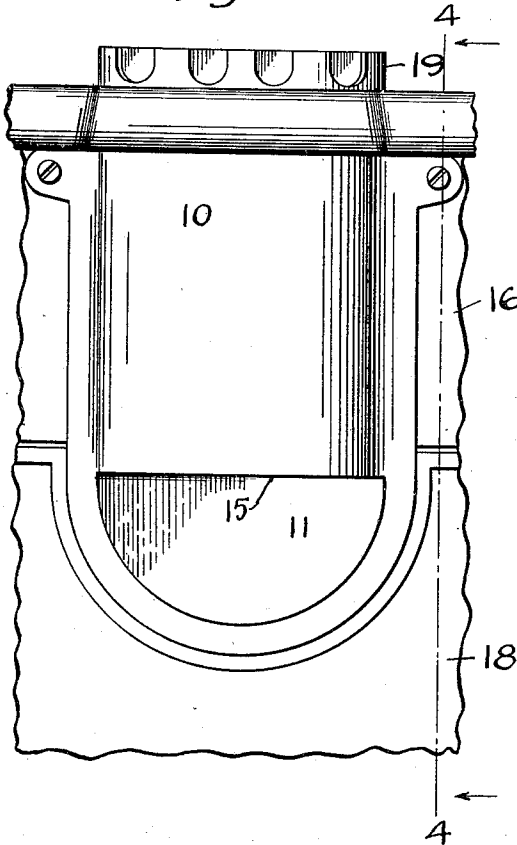


Fig. 4.

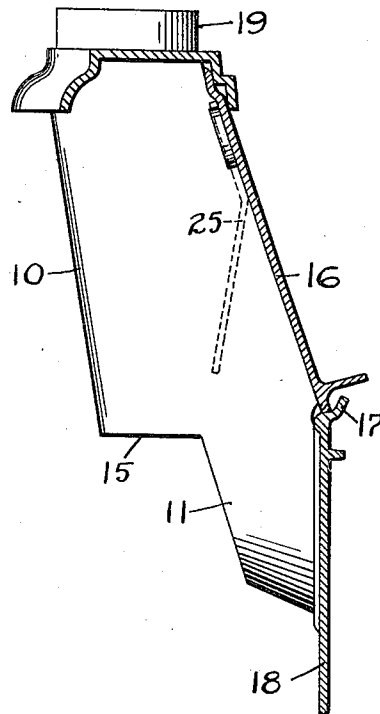
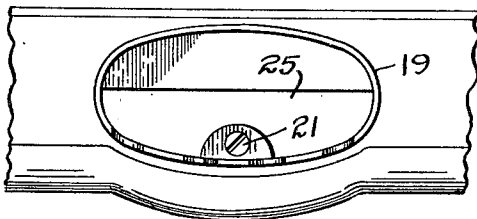


Fig. 5.



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UNITED STATES PATENT OFFICE.

JACOB MERSEREAU, OF PORT CHESTER, NEW YORK, ASSIGNOR TO ABENDROTH BROTHERS, A CORPORATION OF NEW YORK.

STOVE.

1,009,085.

Specification of Letters Patent.

Patented Nov. 21, 1911.

Application filed March 29, 1910. Serial No. 552,167.

To all whom it may concern:

Be it known that I, JACOB MERSEREAU, a citizen of the United States, and a resident of Port Chester, in the State of New York, have invented certain new and useful Improvements in Stoves, of which the following is a specification.

My invention relates to gas or oil stoves, and particularly to the flues thereof, which serve to connect the stove with a chimney or other discharge point out of the room in which the stove is located, and which serve to carry away the products of combustion generated by the flame of the stove.

The object of the invention is to provide a flue which shall efficiently serve the purpose of carrying off into the chimney the products of combustion, affording free and unobstructed passage therefor, but which shall permit any back draft or downward air current which may pass from the chimney into the flue to pass out and away from the stove and thus prevent the draft from disturbing or extinguishing the flame of the stove.

The invention consists in the novel construction, arrangement and combination of parts hereinafter particularly described and shown in the accompanying drawings.

In the accompanying drawings, Figure 1 is a side view, partly in section, of my invention showing also the chimney connection, Fig. 2 is a horizontal section of the same on the line 2—2 of Fig. 1, Fig. 3 is a back view of the same, Fig. 4 is a vertical section on the line 4—4 of Fig. 3, Fig. 5 is a top view of the same, and Fig. 6 is a detail view of the burner.

In gas or oil stoves as ordinarily used, where the products of combustion are discharged into a chimney flue or into the outer air, a serious difficulty is encountered in the liability of the flame to be disturbed or even extinguished by back drafts or downward currents of air in the chimney.

In carrying my invention into effect, in order to construct a flue which will allow the upward passage of the products of combustion but prevent the passage of back drafts into the gas stove, I provide a flue piece, the main part of which, designated 10 in the accompanying drawings, is semi-cylindrical in shape, and the lower part, designated 11, is flattened and bent inward toward the stove as shown in Figs. 1 and 4.

The lower edge of the flue is provided with a flange 12 (see Fig. 1) which is adapted to engage with the edge of the flue opening in the back portion 18 of the stove, thus supporting the flue vertically, it is steadied and held in an approximately upright position by hook-pieces 13 (see Fig. 1) which are secured by screws 14 to the inside of the flue and the hooked ends of which engage with the upper side parts of the edge of the flue opening. The lower end of the semi-cylindrical part of the flue is open below, as shown at 15.

In Figs. 1, 3 and 4, 16 designates a part of the back of the stove, which rests on the flange 17 of the portion 18. The part 16 slopes outwardly, and lies adjacent to the open front of the semi-cylindrical part 10 of the flue. An annular top or collar 19 is provided, which fits over the top of the flue, resting partly upon the flange 20 and being secured thereto by a screw 21, and partly upon the sloping back piece 16. A portion of the top of the stove is shown in Fig. 1, being designated 22. The upper part of the top or collar 19 is adapted to receive one end of a pipe 23, the other end of which may lead into a chimney flue 24.

In preferred form, I secure to the sloping back-piece 16, by a bolt and nut or in any suitable manner, a back-draft deflector 25. It is not necessary, however, that this deflector be of the exact shape or form shown in the drawings, and I do not limit myself to the same, or to deflector separate from the flue.

The operation and also the advantages of my invention are obvious from the foregoing description of the construction.

While the products of combustion have a free and unobstructed passage from the burner through the flue, passing below the lower edge of the deflector 25 and then upward, any back-draft or downward current of air passing from the chimney into the flue does not follow the same path, but is deflected and passes down and out into the room but is prevented from reaching and disturbing or extinguishing the flame of the stove.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is as follows:

1. A flue for gas stoves and the like, comprising a passage for the products of com-

bustion, the end portions of which are comparatively contracted and the middle portion of which is comparatively enlarged, said flue being provided with an inlet at the
5 lower end communicating with the stove, an outlet at the upper end, an intermediate downwardly opening outlet, and deflecting means in said passage adapted to direct into said intermediate outlet and away from
10 said inlet, downward or backward currents in said passage way, said deflecting means comprising a baffle-plate secured by its upper portion to the wall of the flue.

2. A flue for gas stoves and the like, comprising a passage for the products of combustion, the end portions of which are comparatively contracted and the middle portion of which is comparatively enlarged, said flue being provided with an inlet at

the lower end communicating with the stove, 20
an outlet at the upper end, an intermediate downwardly opening outlet in the enlarged portion of said passage, and deflecting means in the enlarged portion of said passage adapted to direct into said intermediate out- 25
let and away from said inlet, downward or backward currents in said passage way, said deflecting means comprising a baffle-plate secured by its upper portion to the wall of the flue. 30

In witness whereof I have hereunto signed my name this seventh day of March 1910, in the presence of two subscribing witnesses.

JACOB MERSEREAU.

Witnesses:

WILLIAM D. LEE,
THOMAS F. LYNCH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."