

(No Model.)

2 Sheets—Sheet 1.

E. W. ANTHONY.

HEATING STOVE.

No. 265,362.

Patented Oct. 3, 1882.

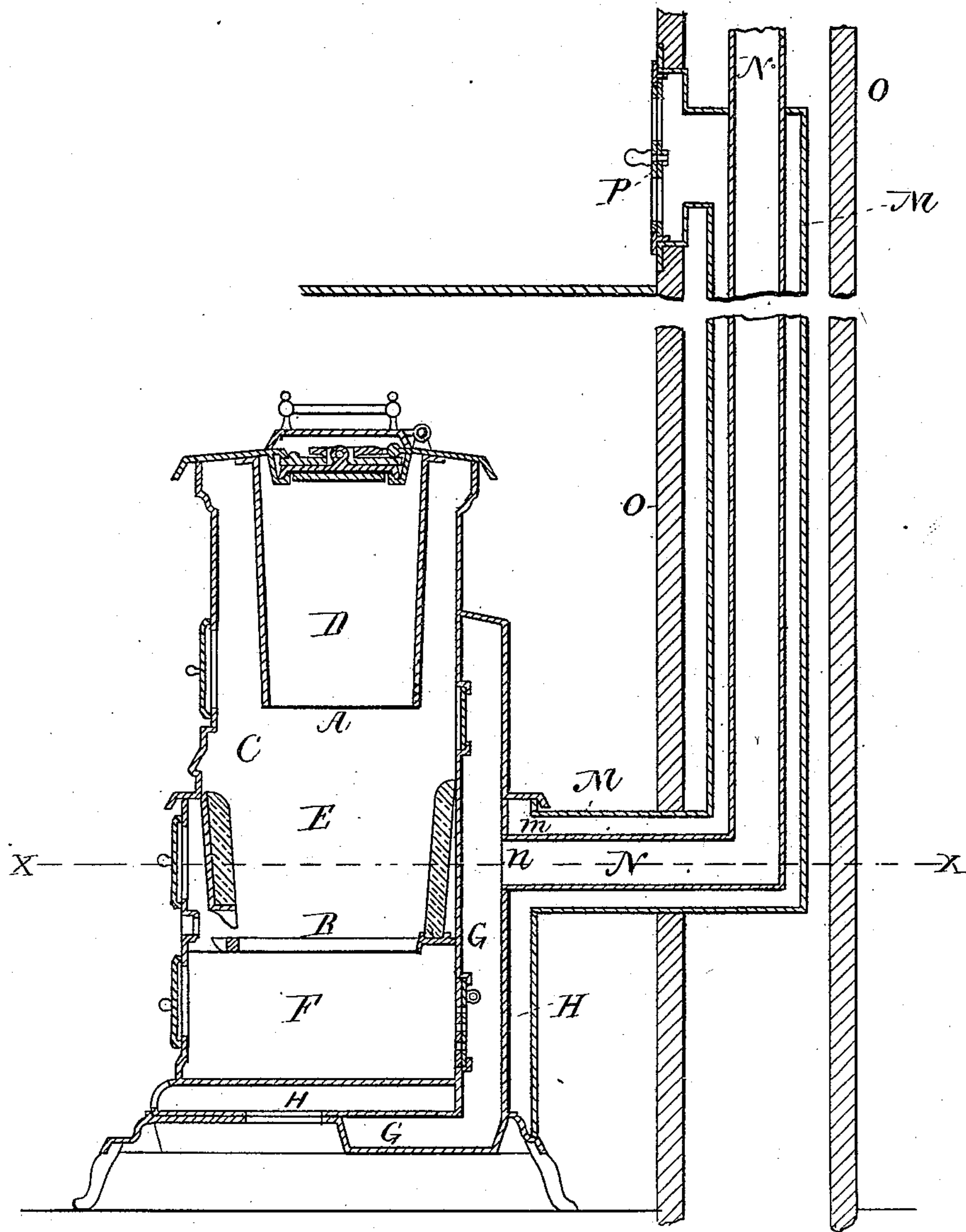


Fig. 1.

WITNESSES

Ed. Harris
W. C. Togg

INVENTOR

E. W. Anthony
by his attys
Clark & Raymond

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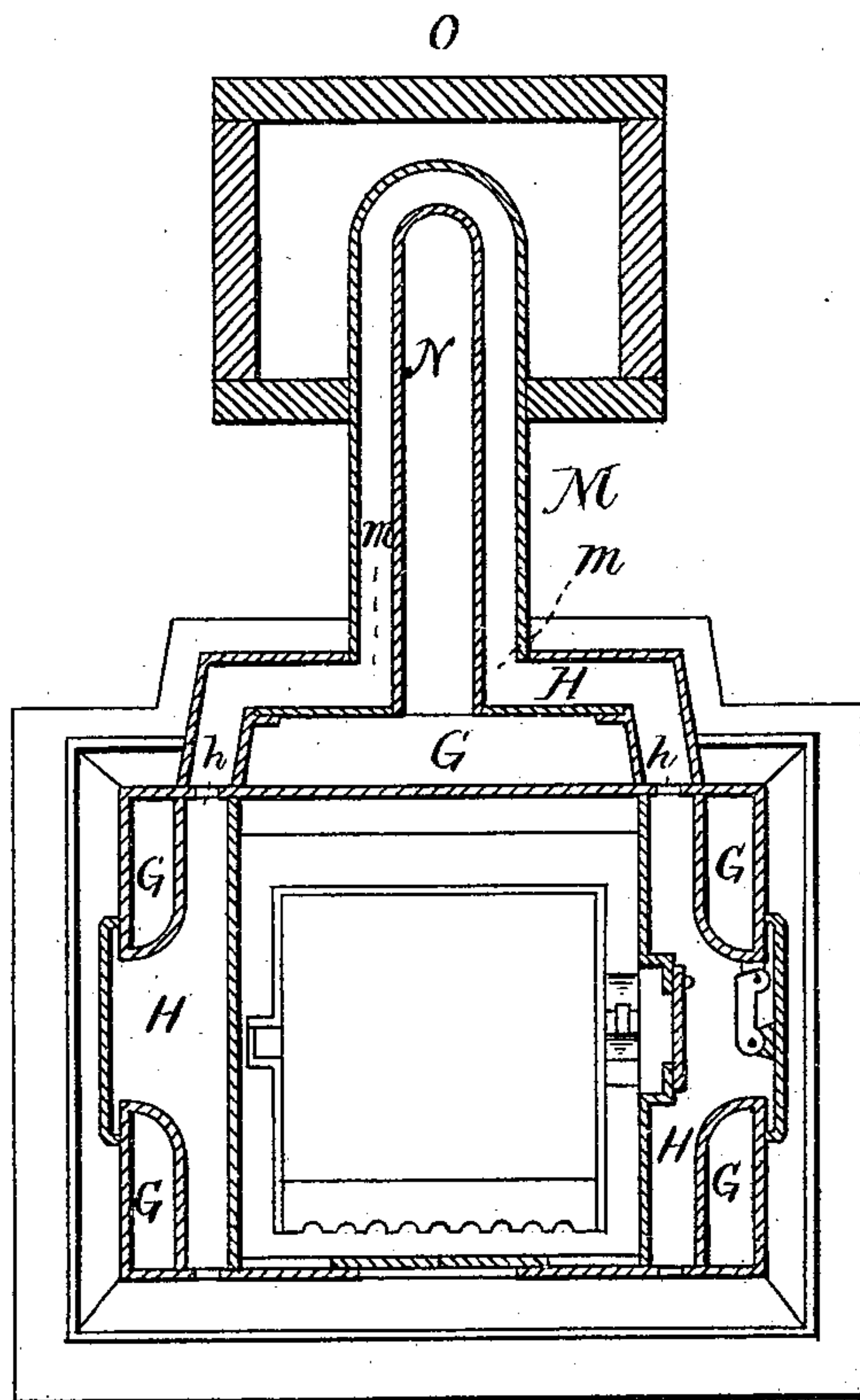


Fig. 2.

WITNESSES

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INVENTOR

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UNITED STATES PATENT OFFICE.

EDGAR W. ANTHONY, OF BOSTON, MASSACHUSETTS.

HEATING-STOVE.

SPECIFICATION forming part of Letters Patent No. 265,362, dated October 3, 1882.

Application filed June 15, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDGAR W. ANTHONY, of Boston, in the county of Suffolk and State of Massachusetts, a citizen of the United States, have invented a new and useful Improvement in Heating-Stoves, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature, in which—

Figure 1 is a vertical section of a stove and connections illustrating the invention, and Fig. 2 is a horizontal section on the line *xx* of Fig. 1.

The invention is an improvement upon that described in my application for Letters Patent of the United States filed May 22, 1882; and it consists in providing it with means whereby the air-heating chamber in the base-section is adapted to be connected with a room other than that in which the stove is. In the stove described in said application is arranged about the ash-pit and fire-pot a chamber in which air taken or drawn from the room is heated by being brought in contact with the ash-pit chamber and fire-pot walls and the walls of the flues; and this chamber is adapted to be connected with a pipe leading to the room above, either within the chimney or elsewhere, which extends from an opening in said chamber at about midway the height of the stove at the back.

If desired, the smoke-pipe connecting the uptake with the chimney may be inclosed by the pipe for conducting the hot air, in which case the construction will be as shown in the figures.

I find that by this invention a stove of the construction described will have as much radiating-surface for heating as the ordinary stove of the market—that is, it will have the radiating-surface of the entire upper section, and also the entire radiating-surface of the lower section, as in the ordinary stove; and in addition to that the air that is heated in the air-heating chamber of the lower section can be utilized in heating another room, as indicated, and this without in any way destroying or marring the finish, beauty, or proportion of the stove.

In the drawings, A is the upper section of

the stove; B, the lower section; C, the combustion-chamber; D, the magazine; E, the fire-pot; F, the ash-pit; G, the flues; H, the heating-chamber; *m*, the opening into the hot-air conducting-pipe; M, the conducting-pipe connecting the air-heating chamber with the room above, and N the smoke-pipe.

O is the chimney. P is a register in the room over that containing the stove.

Instead of arranging the back portion of the air-heating chamber between the uptake and the wall of the combustion-chamber, as described in said application, I prefer to locate it upon the outside thereof, as shown in the figures, in which case the uptake is between that portion of the heating-chamber and the wall of the combustion-chamber.

The opening or connections between the side portions of the heating-chamber and the back are represented at *h*, Fig. 2.

The smoke-pipe extends from the opening *n* in the uptake-passage and through the heat-conducting pipe, as shown in Fig. 1; or it may extend to the chimney from above this point and independent of the heat-conducting pipe. By extending it through the heat-conducting pipe, as shown, an increased heat-radiating surface throughout the length of the heat-conducting pipe is obtained.

If desired, the heat-conducting pipe can enter a heating-drum in the room with which it connects.

Of course the opening into the conducting-pipe M may be made in one or both sides or any portion of the back of the air-heating chamber H without departing from the spirit of the invention.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

1. A heating-stove having an air-heating chamber in the base-section upon the sides and bottom of the stove, arranged in relation to the ash-pit, combustion-chamber, and down and base flues substantially as specified, and provided with one or more air-inlets through the base, and the opening at the rear into the pipe M, all substantially as and for the purposes specified.

2. A heating-stove comprising two sections,
the base-section of which has an air-heating
chamber arranged in relation to the ash-pit,
combustion-chamber, and down and base flues
5 substantially as specified, which chamber is pro-
vided with one or more inlets through the base
of the stove, and the opening *m* at the rear into

the pipe *M*, and the upper section of which has
a single wall, all substantially as and for the
purposes described.

EDGAR W. ANTHONY.

Witnesses:

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WILLARD C. FOGG.