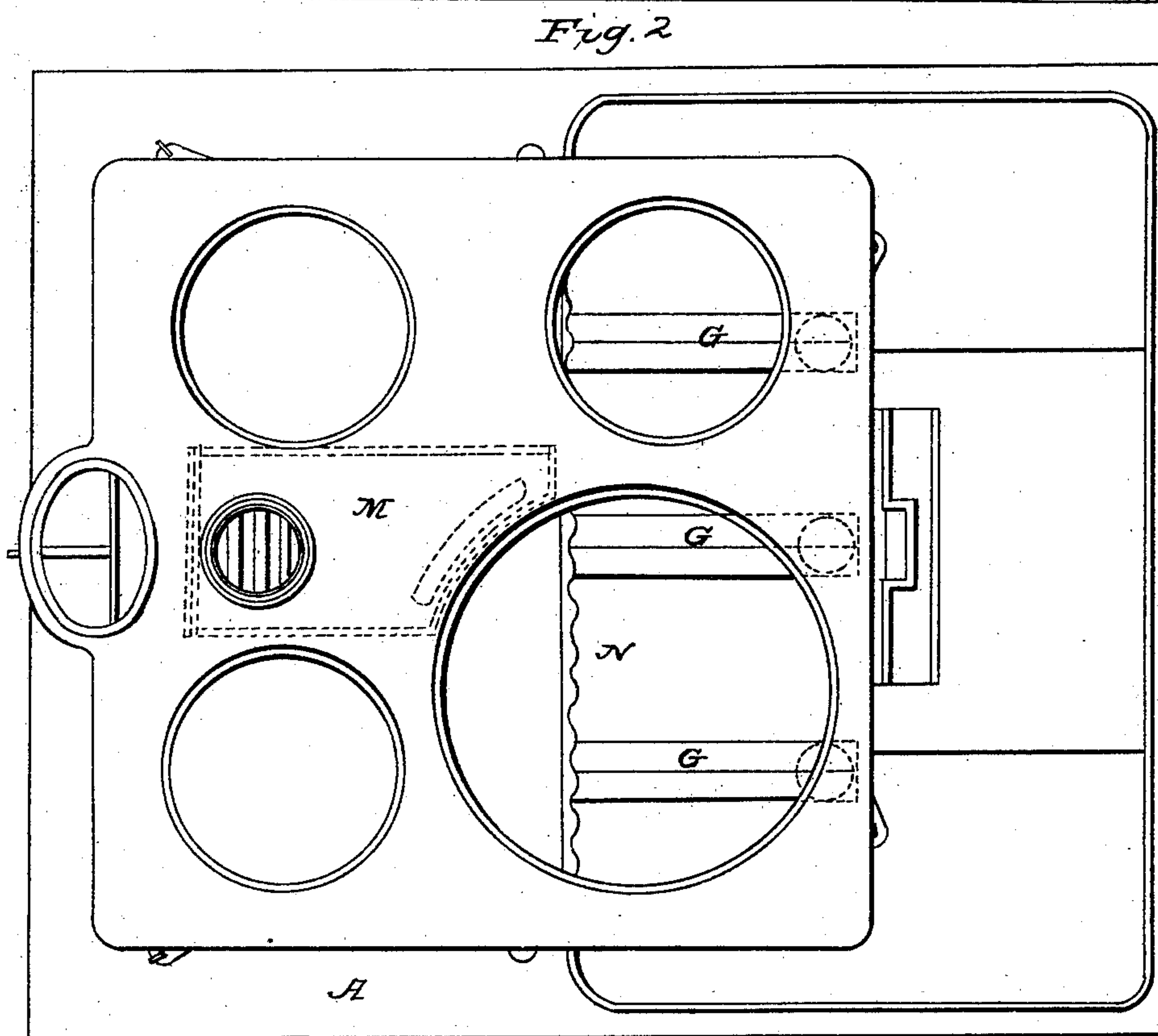
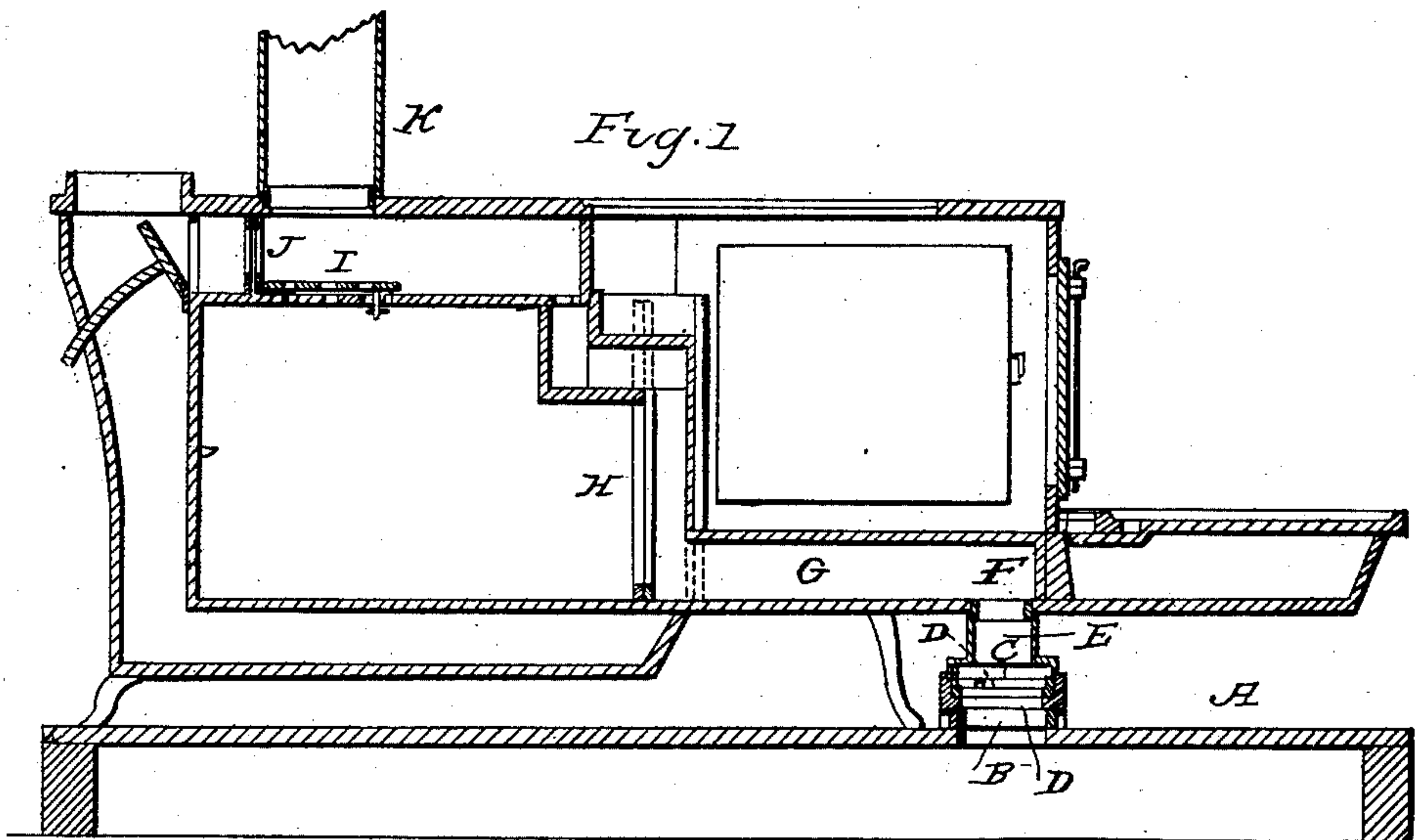


M. L. HORTON.

Cooking Stove.

No. 20,430.

Patented June 1, 1858.



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Fig. 3

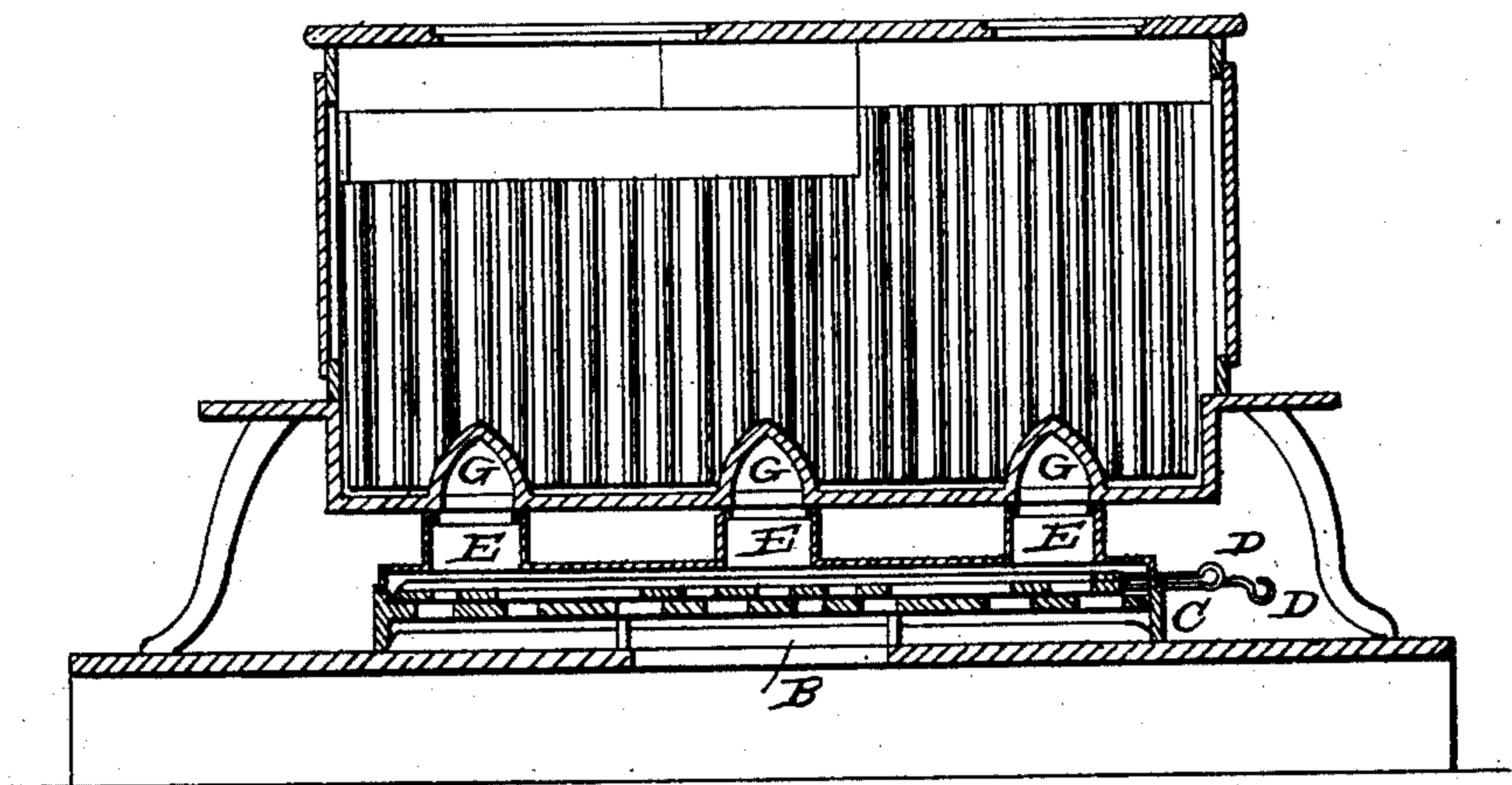
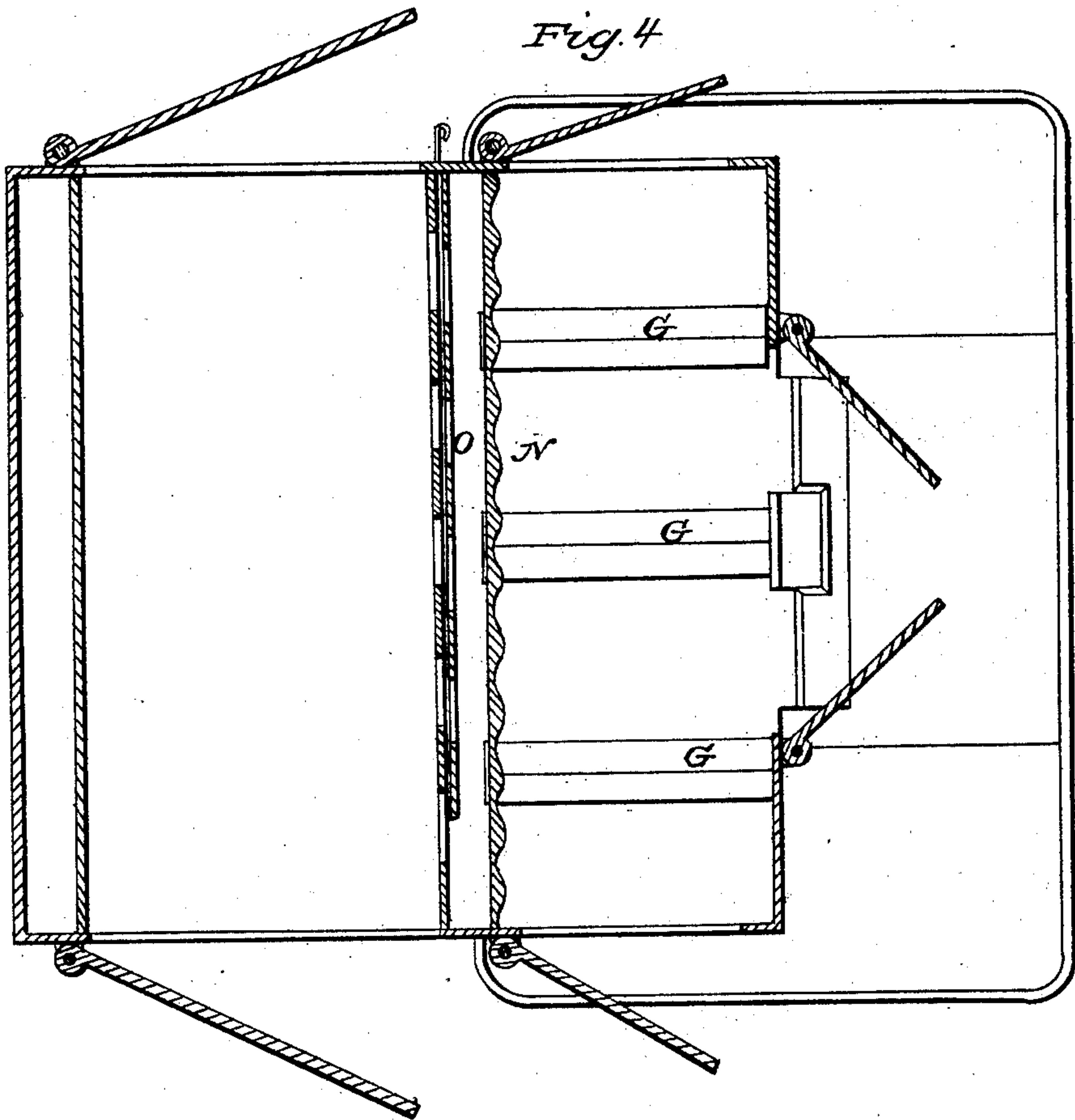


Fig. 4



UNITED STATES PATENT OFFICE.

M. L. HORTON, OF CLAREMONT, NEW HAMPSHIRE.

COOKING-STOVE.

Specification of Letters Patent No. 20,430, dated June 1, 1858.

To all whom it may concern:

Be it known that I, M. L. HORTON, of the town of Claremont, county of Sullivan, and State of New Hampshire, have invented
5 new and useful Improvements in Stoves for Cooking and Heating Purposes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and
10 to the letters of reference marked thereon.

The same letters indicate like parts in each figure.

Figure 1, is a longitudinal section of the stove. Fig. 2 is a plan view of the stove.
15 Fig. 3, is a cross section in the front of the stove. Fig. 4, is a horizontal section.

To enable others skilled in the art to make and use my invention, I will describe its construction and operation.

20 In Fig. 1 A represents the floor of the cook room, on which the stove stands, with a hole cut through it to connect with the air outside of the room, when I wish to do so. B is a small pan under the register for
25 closing the hole through the floor at pleasure; C the register; D, D, the dampers either of which can be closed, or both closed at the same time if desired; F, the opening into the bottom of the stove, connecting with
30 the flues or tubes G leading to the open hot air space or chamber; H the register for regulating the hot air letting it into the oven or not as desired; I, the register in bottom of top air chamber; J the rear register
35 for retaining the heat in the stove or for allowing it to pass off through tube K or into the chimney; K the tube for conveying the heated air into the room, or for conveying it into another room.

40 In Fig. 2 M is the hot air chamber connected with tube K, and with the stove pipe leading to the chimney N the back plate of the fire place of the stove.

45 In Fig. 3, O the open space between the back plate N, and register H.

In the operation of my invention the general construction and operation of my stoves is somewhat similar to other cooking stoves of the like class, but it differs from them in

the manner of introducing air into the stove, 50 and regulating and controlling it and the uses made of the air when thus introduced and heated. The air may be admitted from the outside of the building through the floor into the center tube E, or from the 55 room through the side tubes E, at the same time or by means of dampers D, D, from the outside alone, or from the room alone. It then passes through, tubes G, where it is heated and then enters the open space O; 60 then by opening the register H it is let into the oven for heating purposes, then by opening the register I it will pass up into the air chamber M, and then through register J and the rear damper into the pipe, and thus 65 escape with the product of combustion or if register J be closed then the heated air will pass off through tube K, into the room or rooms to be heated.

The amount of heated air I may wish to 70 retain in the oven can be regulated by registers H and I. When the damper H is closed the heated air will pass directly up through space O and chamber M either to the pipe or to tube K as I may direct by closing the 75 register J, at the same time the product of combustion passes on each side of chamber M through the rear damper into the pipe and is thus carried off.

If I do not wish to bring air from outside 80 of the room, I can close the aperture by the valve D, or I can by closing both valves D, shut off all the air, from the room, so that I will not admit heated air at all, but I contemplate the use of it generally. 85

Having thus described the nature of my invention what I claim as new and desire to secure by Letters Patent is:

The arrangement of the registers C dampers D, D, hot air chambers O and M and 90 registers H, I and J for admitting, controlling and regulating the heated air, as set forth.

MARCUS L. HORTON.

Witnesses:

EDWARD D. BAKER,
JAMES P. BREWER.