

J. C. TREADWELL.

Cook Stove.

No. 24,833.

Patented July 19, 1859.

Fig. 2

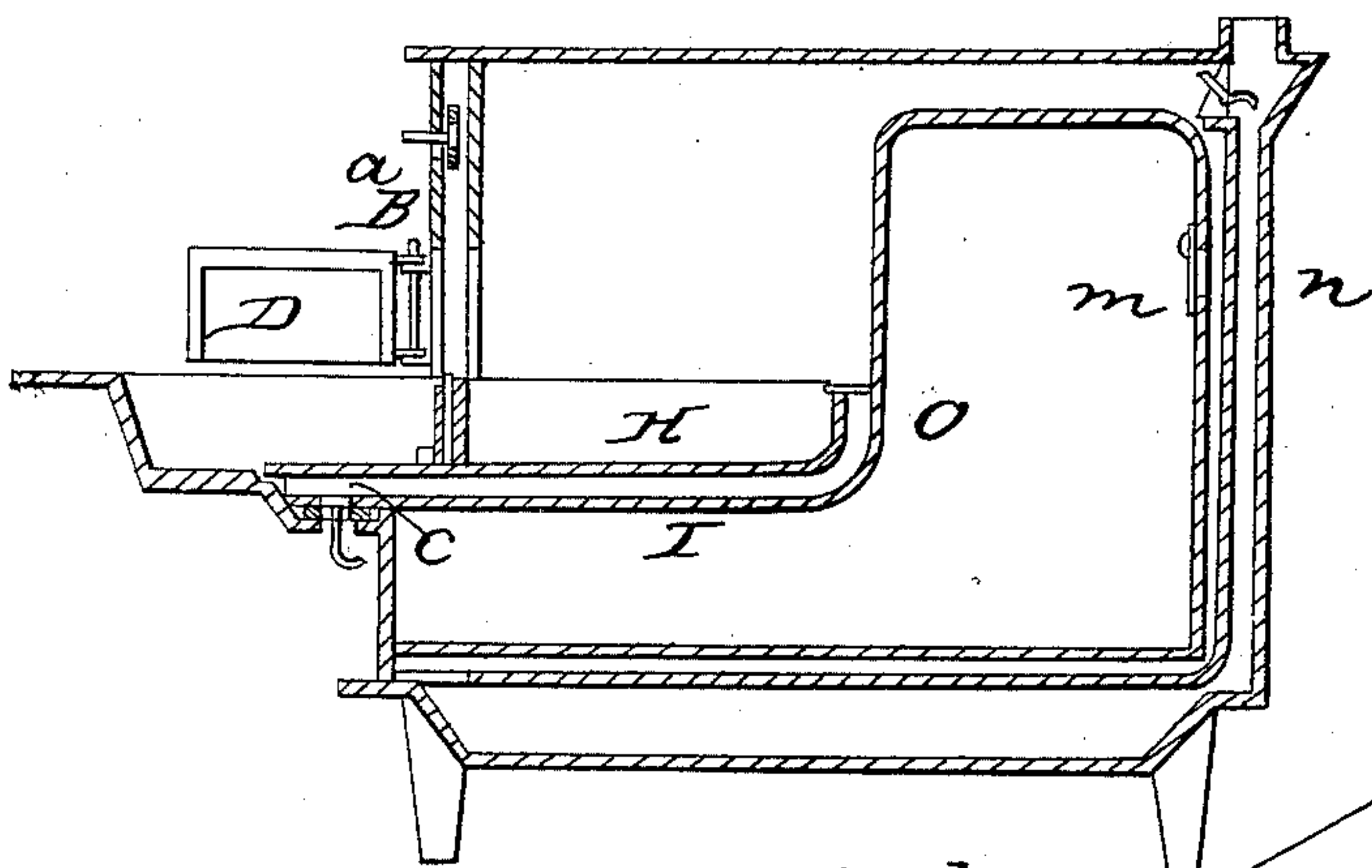
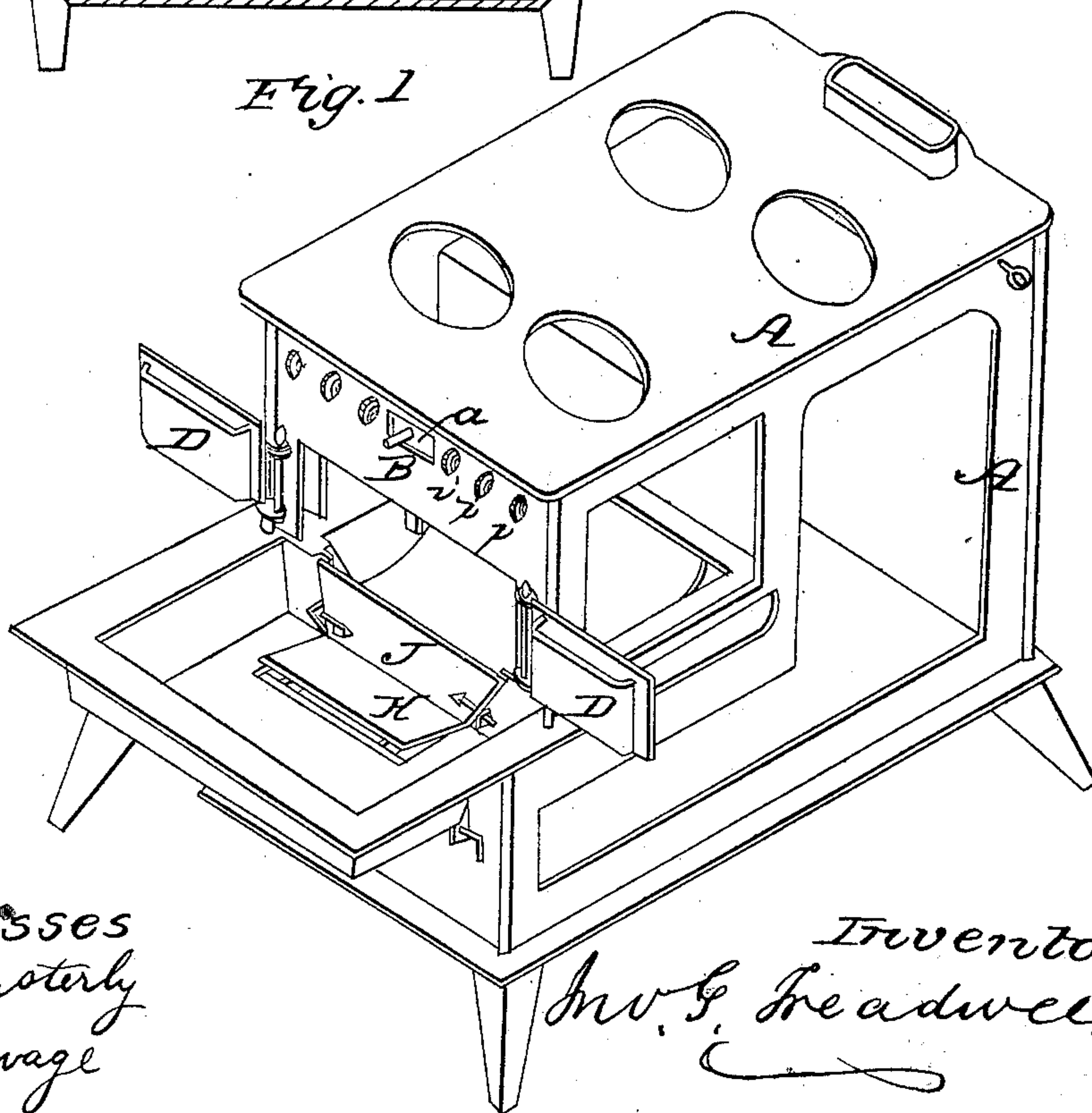


Fig. 1



Witnesses
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JNO. G. TREADWELL, OF ALBANY, NEW YORK.

STOVE.

Specification of Letters Patent No. 24,833, dated July 19, 1859.

To all whom it may concern:

Be it known that I, JNO. G. TREADWELL, of Albany, in the State of New York, have invented certain new and useful Improvements in Cook-Stoves; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

10 The nature of my invention consists in the arrangement and employment of the several parts substantially in the manner herein-after described.

15 In the figures Figure 1 represents a perspective view of the stove. Fig. 2, represents a longitudinal vertical section.

(A) represents in the drawing the body of the stove which may be constructed in any known manner, as my invention does not ap-
20 pertain to the general construction of the said body.

B, represents a plate which is secured to the front plate of the stove above the doors in such a manner as to leave an opening be-
25 tween the said plates or a passage through which air may pass.

i, i, i, represent apertures or holes in the plate B, through which air is admitted.

30 *a*, is a damper, secured between the plates for the purpose of closing or opening the holes (*i i*).

The passage between the plates is closed above but is open below and leads into the passage in the doors D, D, said doors being
35 made double as is represented in the drawing. When the two doors are shut the passages in the front of the stove and those in the said doors connect with each other for the purpose of conducting the air through
40 these passages before it is admitted to the fire. By this means the air is not only heated before it reaches the fire but it has a tendency as it passes through in a continuous current to keep the front of the stove
45 and the doors cool and from thus being injured by the heat. When the front and doors are kept cool, there is much less contraction and expansion of these parts; and the joints around said parts are much more
50 perfect.

H, represents an adjustable plate which is secured in such a manner under the fire pot as to form an air passage I, between said plate and the plate which forms the top of
55 the front part of the oven. An aperture at *c*, allows the air to enter this passage from beneath the front part of the stove. Said

aperture is opened or closed by means of a damper.

o, is an aperture which opens from the 60 passage I, into the oven.

n, is an aperture which opens from the oven, into the flue through which the products of combustion pass.

m, is a valve which is intended to close or 65 open the aperture *n*.

In cooking some kinds of meats it is often necessary to carry off the gases which may arise and these I carry off by means of a current of air which passes through the oven 70 from the passage I. The air passes in at *c*, and is heated before it reaches the oven, passes into the oven at *o*, and then out again into the flue at *n*. When this ventilation, is not necessary through the oven, it may be 75 shut off by means of the damper to aperture *c*, and the valve *m*. Should the plate H, be drawn slightly forward, the damper opened, and the valve *m* closed, a current of heated air may be made to pass up to the fire at the 80 rear of the fire pot.

J, represents a plate which is secured by hinges, in the ash pit. This plate is made to rise and fall, as is clearly shown. When the ordinary hearth plate, or a hearth plate 85 made to fit the hearth snugly, is placed in its proper position, some air may possibly, and sometimes does, pass down into the ash pit. This air passes to the fire and assists the combustion, but when the plate J, is raised 90 it effectually cuts off the draft or passage of air, and thus fire may be kept in the stove an incredibly long time. This plate is hinged as has been stated and may be let down when it is desired to remove the ashes 95 from the ash pit, or whenever desired.

I do not wish to claim double doors for stoves, nor do I wish to claim providing holes in an oven for the purpose of ventilating, as these are not new, my invention be- 100 ing confined more to the particular arrangements and combinations herein set forth.

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent is— 10

The employment of the hinged plate J, in combination with the hearth plate above, the two being used and operated in the manner and for the purpose herein specified.

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Witnesses:

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