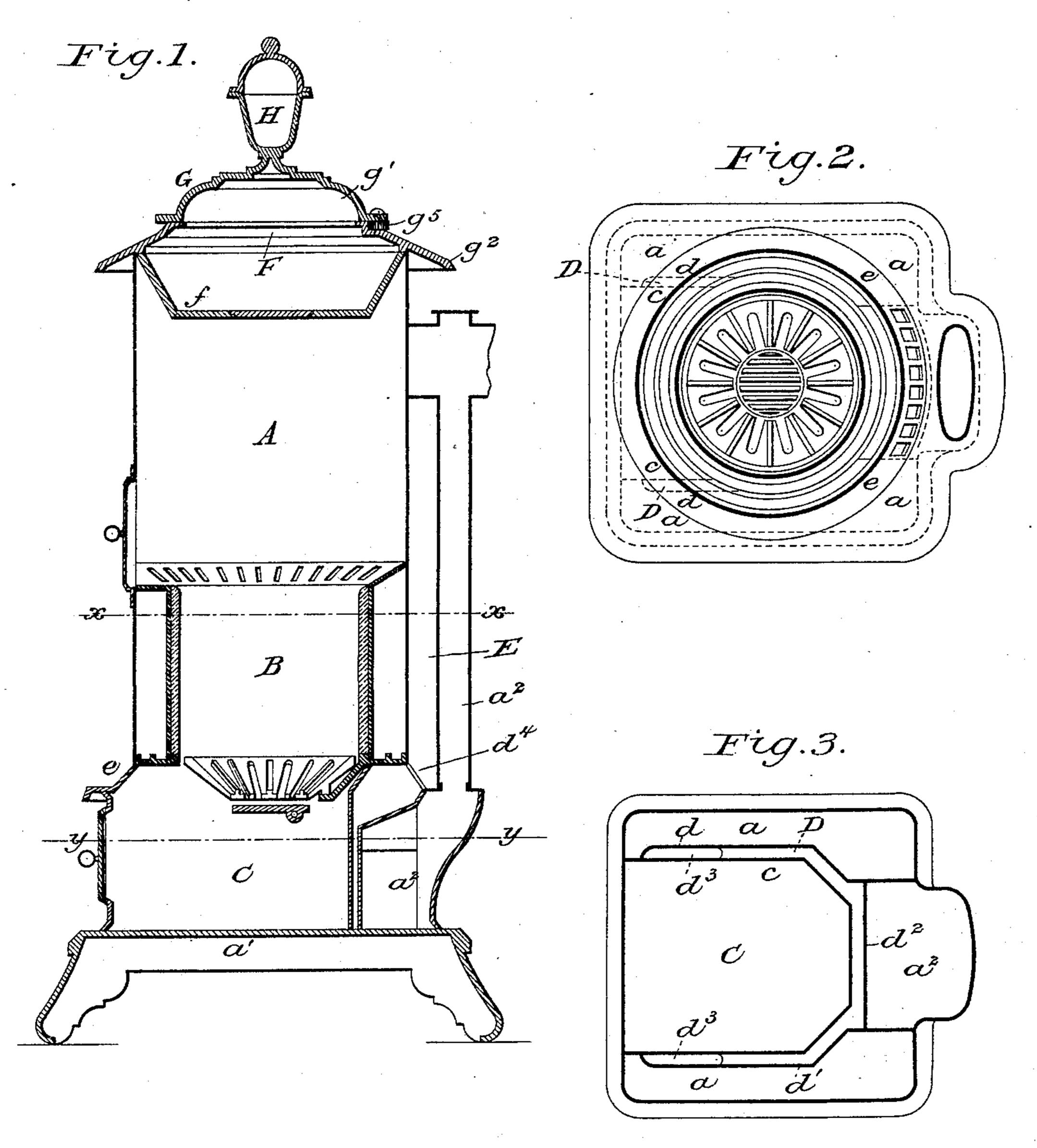
E. W. ANTHONY.

HEATING STOVE.

No. 354,297.

Patented Dec. 14, 1886.



Witnesses: Fud Hunis Ded. B. Dolan, Inventor Edgar M. authory Ly his attyr Clarke & Raymond.

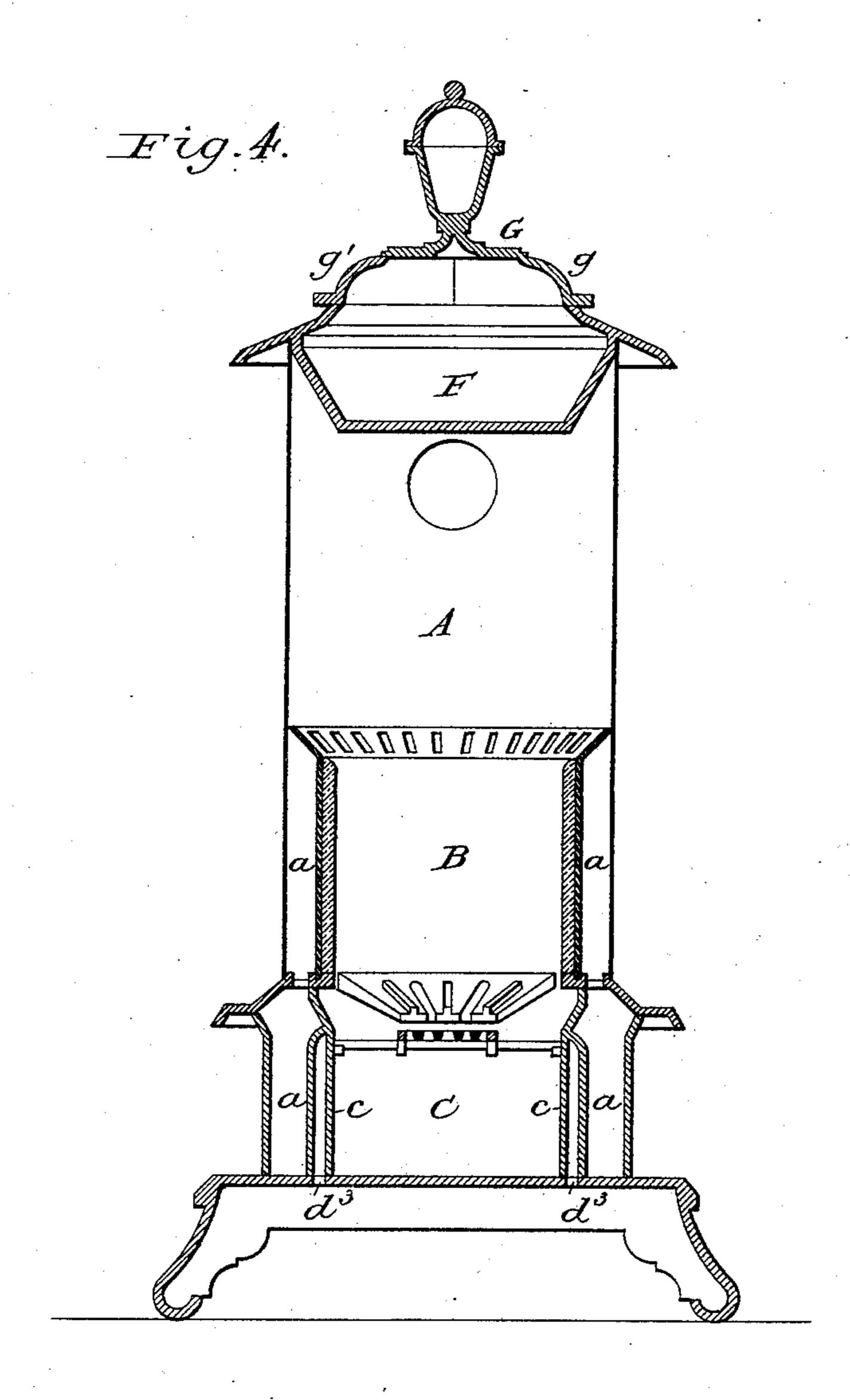
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Edge Transfor.
Edge Transformer
Laster & Raymond

United States Patent Office.

EDGAR W. ANTHONY, OF BOSTON, MASSACHUSETTS.

HEATING-STOVE.

SPECIFICATION forming part of Letters Patent No.354,297; dated December 14, 1886.

Application filed November 30, 1883. Serial No. 113,253. (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, 5 have invented a certain 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 specificato tion, in explaining its nature, in which—

Figure 1 is a vertical central section of a stove having my improvements. Fig. 2 is a horizontal section upon the line x x of Fig. 1. Fig. 3 is a horizontal section upon the line y15 y of Fig. 1. Fig. 4 is a vertical central section of the stove on a line at right angles to

that shown in Fig. 1.

The invention relates to the specific arrangement of passages and flues in the base 20 of the stove, whereby a circulation of air about the stove is effected.

Referring to the drawings, A represents the combustion-chamber; B, the fire-pot, and C the ash-pit. Extending downwardly from the 25 combustion-chamber A, upon each side of the fire-pot, are the diving-flues a, which extend downwardly to the base-plate a' of the stove, and backwardly in the base to the uptake a^2 . Between the base-sections of the diving-flues 30 a and the ash-pit c' is the narrow passage or chamber D, which is formed by means of the flue-plates $d d' d^2$ and the ash-pit wall c. This narrow chamber or passage D has an opening, d^3 , toward the front of the stove, upon 35 either side of the ash pit, through the baseplate, (see Fig. 3,) and also the opening or openings d^4 between the uptake-pipe a^2 and the lower portion of the casing E of the stove, and in the upper plate, e, of the base-section 40 of the stove.

It will be observed that the cooled air enters through the openings d^3 , and is heated bewalls c^2 , and that the air thus heated passes 45 out through the opening or openings d^2 at the rear of the stove, and that thereby a continuous circulation about the stove is provided. It will also be observed that by this construction the heat passing through the diving-flues a is utilized for heating the air passing through 30 this chamber D.

I am aware that Patents No. 4,032, to Hedenberg, and No. 48,145, to Treadwell, show and describe heating-stoves having an air-heating passage extending through the base of the 55 stove to the top, which require a somewhat complex arrangement of flues, and I consider that the said stoves do not contain the feature of my invention, which is an improvement upon that described in my Patent No. 60 246,995, in that I dispense with the passage or chamber and flues below the ash-pit, and thereby cheapen the construction and reduce the weight of the stove without impairing the efficiency of the invention.

The subject-matter of this application was originally shown and described in my application filed May 7, 1883, Serial No. 94,233; but it was removed subsequently by amendment, and I do not now claim herein the pres- 70

ent subject-matter of said application.

I am aware, also, of the Patent No. 42,831, granted N. C. Bond, dated May 24, 1864, for a fire pot, which shows a chamber surrounding a fire-pot, to which entrances are provided 75 from below, and which has an outlet at its upper end. I am also aware of the patent to Noble, No. 225,484, dated March 16, 1880, which shows a chamber or passage in the base-section of a stove about the ash-pit, into which cold 80 air is introduced through the lower base-plate of the stove, and from which it escapes through openings in the upper plate of the base-section; but as these patents do not show or describe the flue-plates $d d' d^2$, arranged in rela- 85 tion to the ash-pit wall c, as shown, to provide a narrow passage or chamber, D, between the ash-pit wall and the base-flue, and entirely surrounded by the base-flue, which passage or chamber has the inlet-openings d^3 90 and the escape-openings d^4 , I consider that tween the flue-plates $d^{-}d' d^{2}$ and the ash-pit | they do not embrace the essential features of my invention.

Having thus fully described my invention, I claim and desire to secure by Letters Patent 95 of the United States—

In a heating stove, the combination and arrangement, in the base-section of the stove, of

the base-plate a', the ash-pit wall c, the flueplates d d' d², arranged in relation to each other and to the outer shell of the stove and to the ash-pit wall to form the base-flues a 5 and the air-heating chamber D, the upper base-plate, e, the said lower base-plate, a', having inlets or openings d³, and the said upper

base-plate, e, having the outlets or apertures d^4 , arranged in relation to the passage or chamber D as specified, substantially as described. 10 EDGAR W. ANTHONY.

Witnesses:

F. F. RAYMOND, 2d, FRED. HARRIS.