

(No Model.)

2 Sheets—Sheet 1.

C. RATHBONE.
VENTILATING ATTACHMENT FOR STOVES.

No. 367,445.

Patented Aug. 2, 1887.

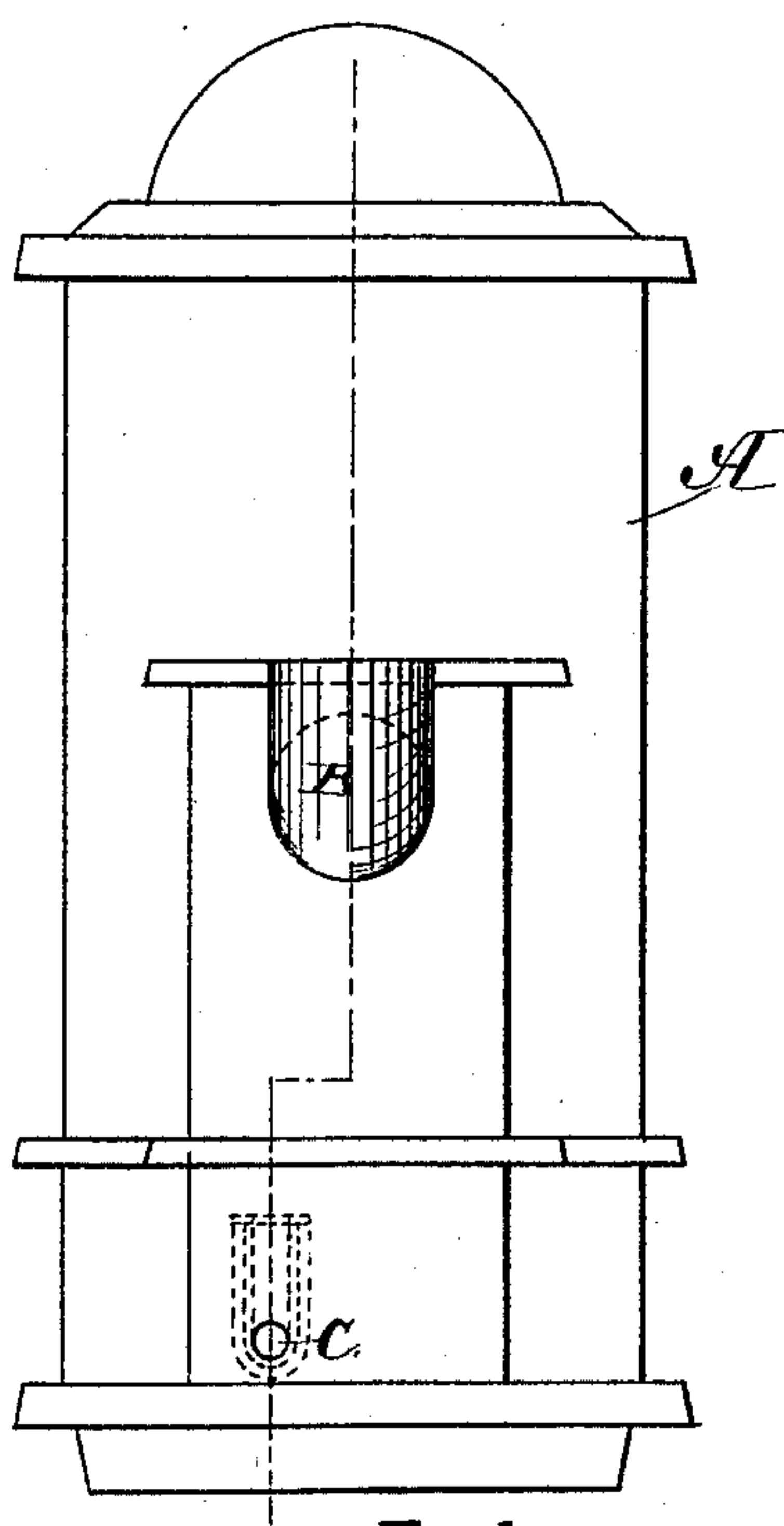


FIG. 1.

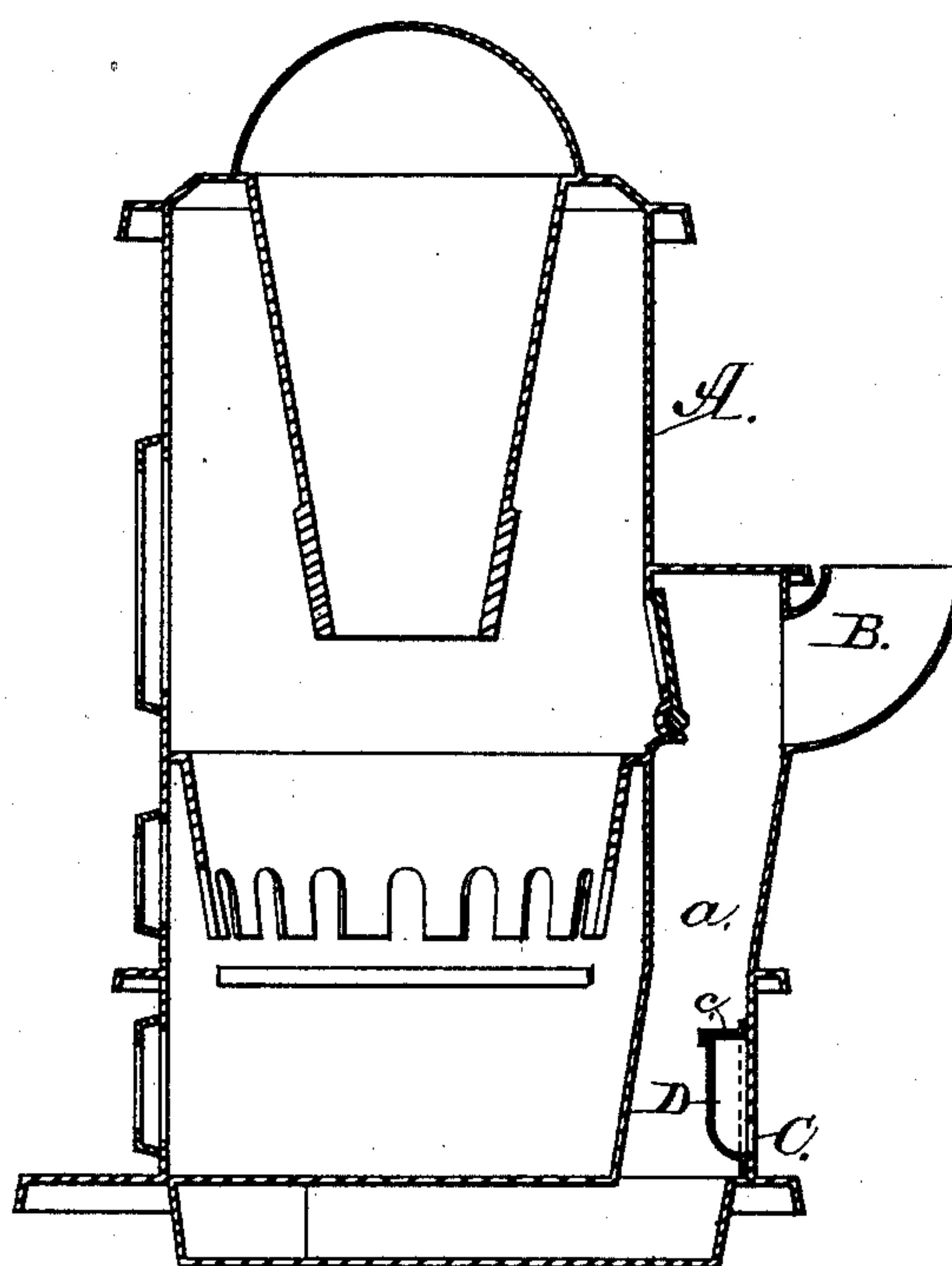


FIG. 2.

Witnesses:

S. B. Brewster,
C. M. Hamlin.

Inventor:

CLARENCE RATHBONE,

by *William H. Low,*
attorney.

(No Model.)

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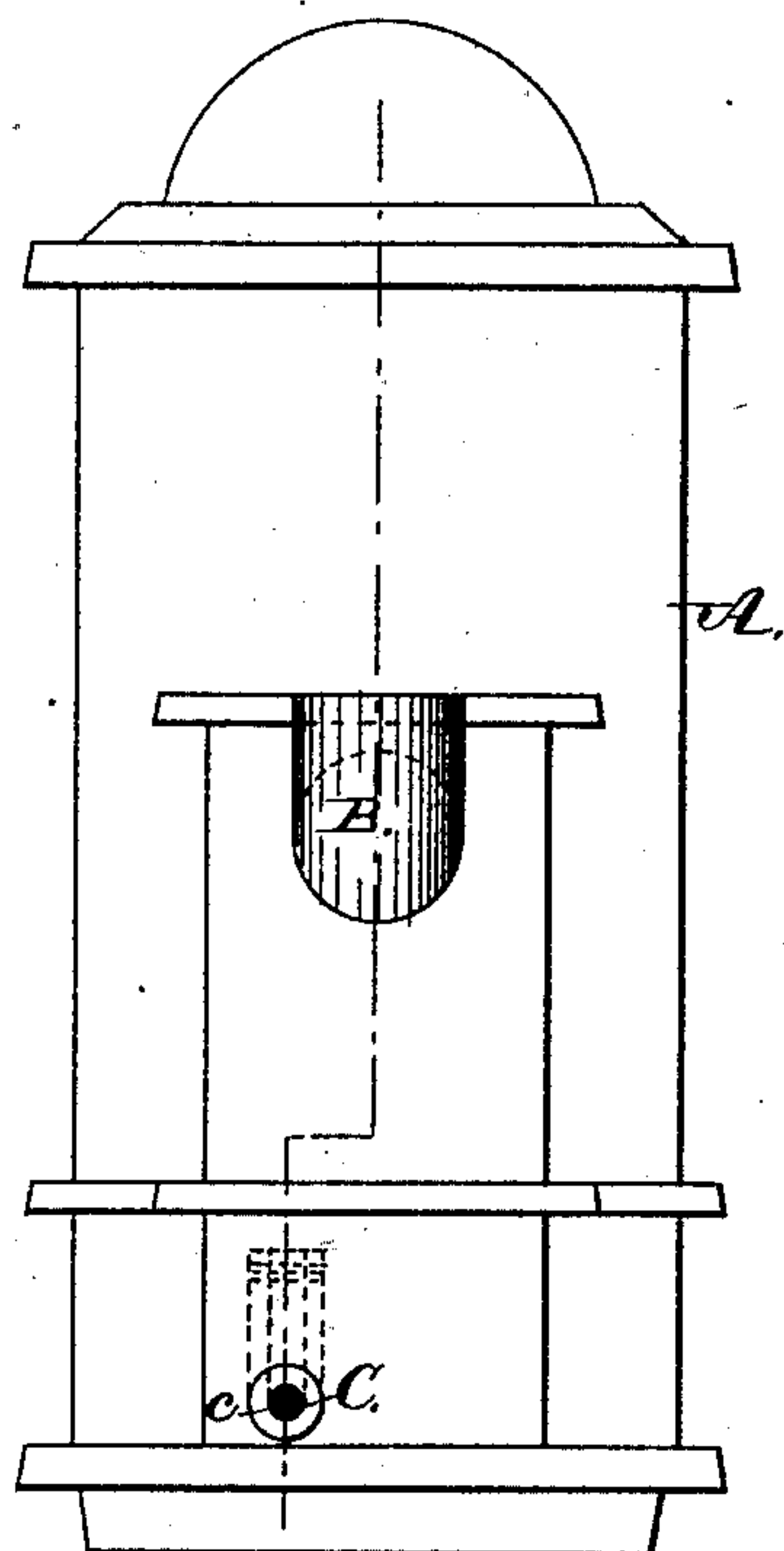


FIG. 3.

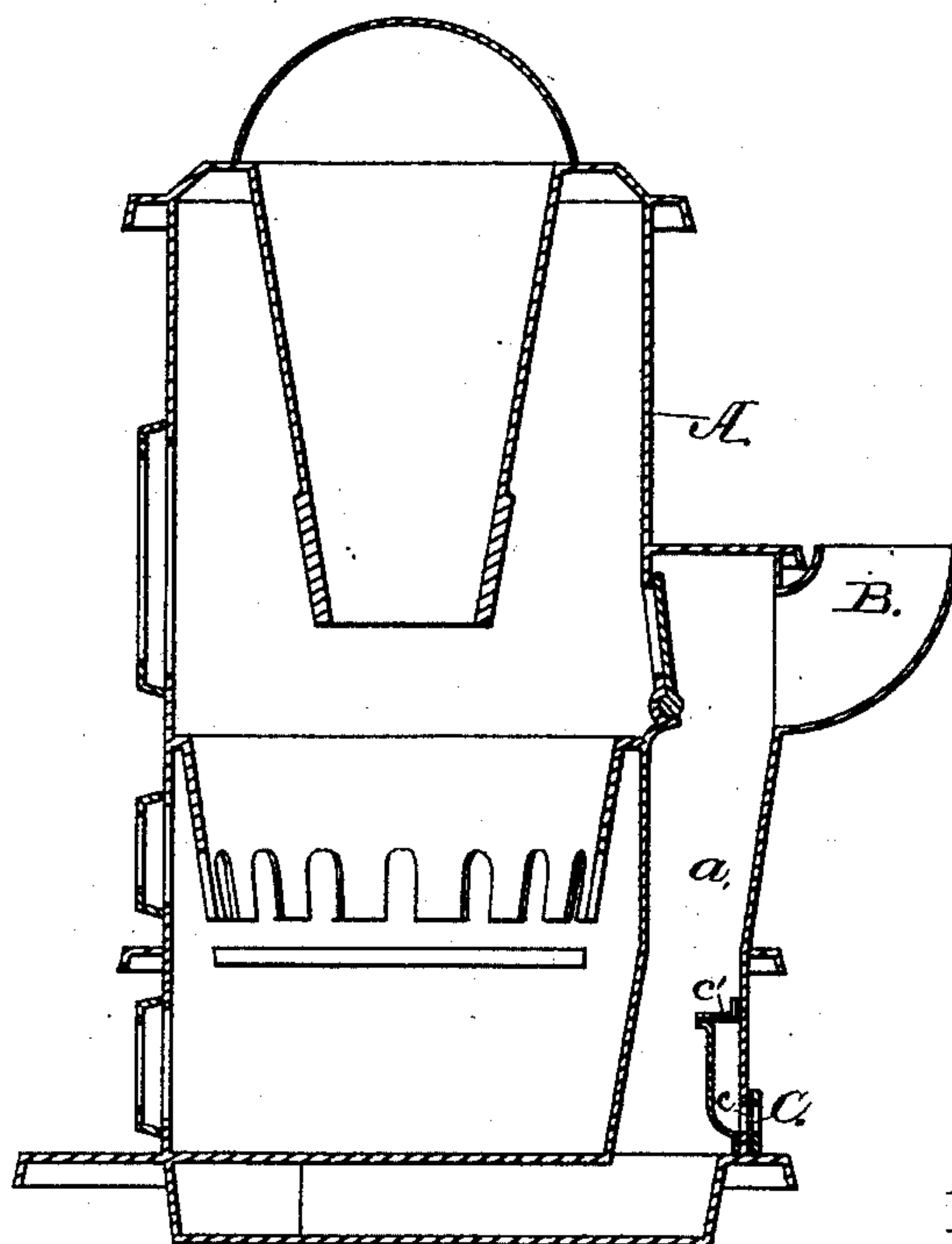


FIG. 4.

Witnesses:

S. B. Brewer,
Chas. H. Hamlin,

Inventor:

CLARENCE RATHBONE,

by *William H. Low,*
Attorney.

UNITED STATES PATENT OFFICE.

CLARENCE RATHBONE, OF ALBANY, NEW YORK.

VENTILATING ATTACHMENT FOR STOVES.

SPECIFICATION forming part of Letters Patent No. 367,445, dated August 2, 1887.

Application filed January 25, 1887. Serial No. 235,452. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE RATHBONE, of the city and county of Albany, in the State of New York, have invented new and useful
5 Improvements in Ventilating Attachments for Stoves, of which the following is a specification.

My invention relates to improvements in attachments to stoves for carrying off the vitiated
10 air from the room in which the stove is used; and it consists in providing one of the outer walls of the stove with a small air-inlet opening leading into and delivering its air directly into one of the draft-flues of the stove, the
15 said air-inlet being provided with an inner air-channel having a metallic screen or screens by which the entering air is divided into minute streams and warmed before entering the stove.

20 In the accompanying drawings, which are herein referred to and form part of this specification, Figure 1 is a rear elevation of a heating-stove provided with my invention; Fig. 2, a vertical section of the same; and Figs. 3
25 and 4 are a rear elevation and a vertical section of a modification of my invention.

As represented in the drawings, A is the body of the stove; *a*, a draft-flue leading from the fire-chamber to the smoke-outlet B; C, the
30 inlet air-opening, of from one to two inches in diameter, that is formed in one of the outer walls of the stove, and leading directly into the draft-flue *a*, as shown in Figs. 1 and 2.

The inlet air-opening C is left open, and a
35 short channel-piece or pipe, D, is fixed to the inner side of the plate to form a continuation of said inlet air-opening, that will conduct the air admitted through the opening C in a direction corresponding to that of the draft-
40 currents in passing through the flue *a*. The heated draft-currents impinge against the screen *c*, and thereby heat the metallic body of said screen, so that the minute currents of air which pass through said screen will be-

come heated to such a degree that they will not
45 chill or check the heated draft-currents in their passage through the flue *a*.

The modification shown in Figs. 3 and 4 differs from the one last described by having
50 a screen, *c'*, fixed over the opening C in addition to the screen *c*, fixed over the inner end of the channel-piece D. This construction, besides giving an additional warmth to the in-
55 going air, prevents the entrance of any dust from the room into the opening C. Instead of forming the inlet air-opening C to lead into an ascending draft-flue, as shown in the drawings, said opening may be made into either a
60 horizontal or descending flue, that communicates with the smoke-outlet of a stove; and my invention is equally applicable to a cooking
stove, range, or any other class of stoves or heaters as to the stove shown in the drawings.

I am aware that stoves with ventilating at-
65 tachments have heretofore been made; but in those earlier devices the ventilating-pipes were without screens for dividing the air into minute currents, and said pipes were made of
70 great length for the avowed purpose of permitting the air passing through them to become thoroughly heated before escaping through the smoke-outlet of the stove. I do not claim
such a construction; but

I claim as my invention—

75 The combination, with a stove and its contained draft-flues, of an inlet air-opening formed in an outer wall of the stove, and its connected inner air-channel having an aperture covered by a metallic screen, the said air-
80 channel having its delivery-opening within one of the draft-flues of the stove, as herein specified.

CLARENCE RATHBONE.

Witnesses:

WM. H. LOW,
S. B. BREWER.