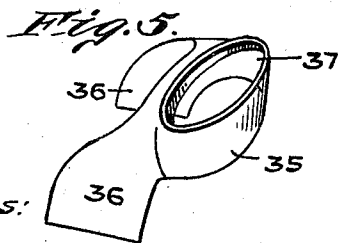
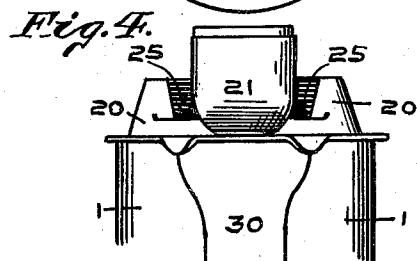
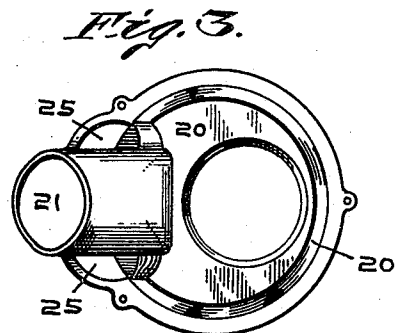
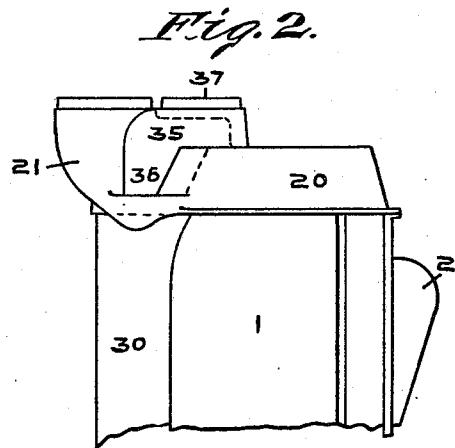
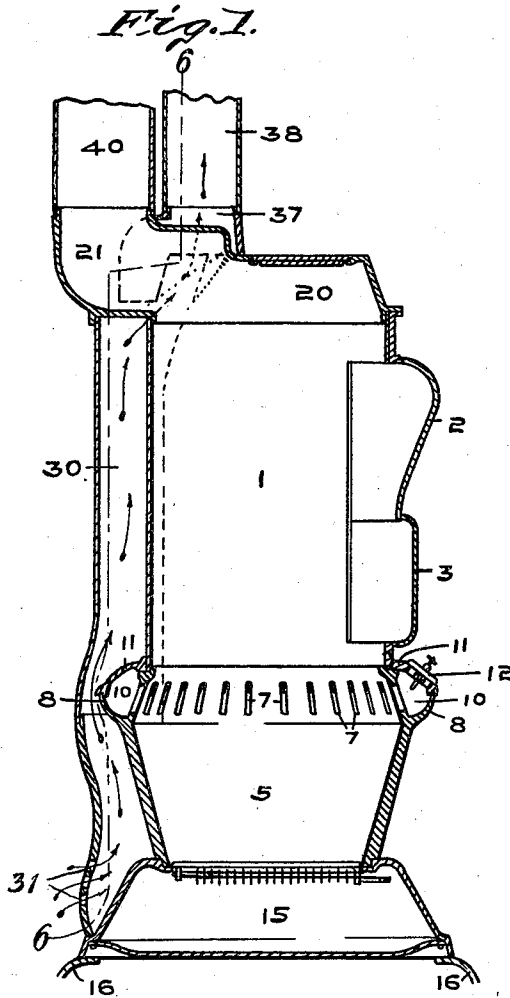


G. ALIG.
HEATING STOVE.
APPLICATION FILED NOV. 27, 1907.

966,512.

Patented Aug. 9, 1910.

2 SHEETS—SHEET 1.



WITNESSES:

L. B. Moerner:

Wm. Hurte.

INVENTOR

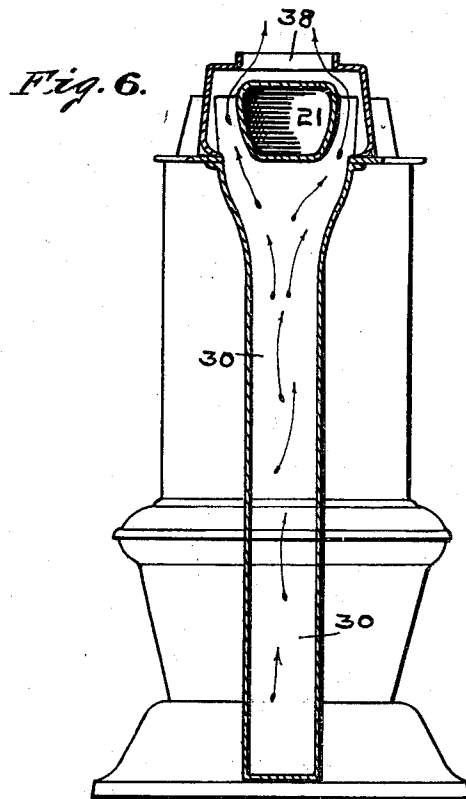
George Alig,
By Wm. Hurte,
ATT'YS.

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2 SHEETS—SHEET 2.



WITNESSES:

L. B. Moerner,
Wm. Hurte.

INVENTOR

By George Alig,
Minuteman Moerner
ATT'YS.

UNITED STATES PATENT OFFICE.

GEORGE ALIG, OF INDIANAPOLIS, INDIANA.

HEATING-STOVE.

966,512.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed November 27, 1907. Serial No. 404,073.

To all whom it may concern:

Be it known that I, GEORGE ALIG, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Heating-Stoves, of which the following is a specification.

This invention relates to heating stoves; and the object of the invention is to provide stoves of the above character with devices for both perfecting combustion within the fire pot and also to more easily and efficiently conduct heated air from a lower to an upper room.

I accomplish the objects of my invention by means of a heating stove illustrated in the accompanying drawings, forming a part hereof, in which—

Figure 1 is a central vertical sectional view of my improved heating stove. Fig. 2 is a fragmentary detail view in side elevation of the upper portion of the stove. Fig. 3 is a top or plan view of the construction shown in Fig. 2, except that the removable hood is omitted. Fig. 4 is a fragmentary detail view in rear elevation of the upper portion of the stove and shows the increased width of the hot air flue where it connects with the top of the stove. Fig. 5 is a perspective view of the hood separated from the stove. Fig. 6 is a vertical section of the hot air flues, on a plane at right angles to the plane on which Fig. 1 is taken.

In the drawings, 1 represents the body of my heating stove, which is usually composed of thin sheet metal, and is provided with the usual doors 2 and 3. The body 1 rests upon and is secured to the fire pot 5, which is made of heavy cast iron to withstand the heat. The fire pot, as shown in drawings, is slightly converged at each end. The fire pot 5 is provided with a plurality of air distributing slots 7 near its upper edge, and the slots are inclosed by an outer wall formed by an annularly extending flange 8, which is usually formed integrally with the pot. The extending flange 8 forms an air conducting channel 10 around the fire pot through which the air is brought to be discharged upon the fire through the slots 7. Air, rich in oxygen, so discharged upon the fire results in a more perfect combustion with a corresponding increase of heat units. The air conducting channel 10 is inclosed by means of the annular ring 11, which is pro-

vided with the valve 12, by which the intake of air for the channel is regulated. The fire pot 5 rests upon the ash-base 15, and the latter rests upon the well known removable base 16, which may be plain or ornamental as desired.

The stove body 1 is provided with the top 20 which contains the smoke flue 21. The top 20 is of a peculiar construction, as shown in Fig. 3, in that it is provided with the hot air outlet holes or openings 25, located on each side of the smoke flue 21. The holes 25 communicate with the vertically extending hot air flue 30, located at the rear of the stove and is provided near its bottom with the air inlet openings 31, so that the cold air near the floor may be allowed to enter the flue and be heated while passing along the surface of the fire pot. The hot air flue 30 flares at its top (see Fig. 4) so as to reach over each side of the smoke flue 21 and take over the openings 25. The air after passing up through the flue 30 passes out through the openings 25 and may again be allowed to be discharged into the room if desired. The important feature, however, consists in catching the hot air as it is discharged through the opening 25 on each side of the smoke flue 21 and carry it in advance of said smoke flue, in case it is desired to send the air to an upper room.

Much trouble has been experienced during the past in arranging a pipe for carrying air to an upper room from the fact that the outlet for the hot air was always located in the rear of the smoke flue 21. This would necessitate carrying the pipe for the air around the one carrying the smoke, and resulted always in an unsightly arrangement of the pipes. To obviate this difficulty I divide the hot air as it comes up the flue 30 by letting it pass on both sides of the smoke flue 21, so as not to interfere with the draft in the latter, and thence out through the openings 25. I provide a hood 35 having the wings 36 which reach over the top of the smoke flue 21 and take over the openings 25. As the air is discharged from these openings into the hood the latter directs it over the top and in advance of the smoke flue 21 and is then permitted to pass out of the hood through the pipe opening 37 into the pipe 38, which carries it to the upper room. By the use of the hood 35 it will readily be seen that the hot air pipe 38 will

in no wise interfere with the smoke pipe 40, which carries the products of combustion to the chimney.

5 Having thus fully described my said invention, what I desire to secure by Letters Patent, is—

10 In a stove comprising the body, a stove top for said body, said top being provided with a smoke-flue and hot-air openings located on each side of said smoke-flue, an exteriorly located hot-air flue extending from the bottom of said body to the stove top, said hot-air flue being provided with air-inlet openings near its bottom end and
15 adapted to flare outwardly at its top to

embrace the hot-air openings in the stove top, and a hood to take over both of said hot-air openings in said stove top and adapted to convey the hot air discharged from both the hot-air openings in the stove-top 20 over the top of the smoke-flue to a single discharge opening in said hood.

In witness whereof, I have hereunto set my hand and seal at Indianapolis, Indiana, this 23rd day of November, A. D. one thou- 25 sand nine hundred and seven.

GEORGE ALIG. [L. S.]

Witnesses:

F. W. WOERNER,
L. B. WOERNER.