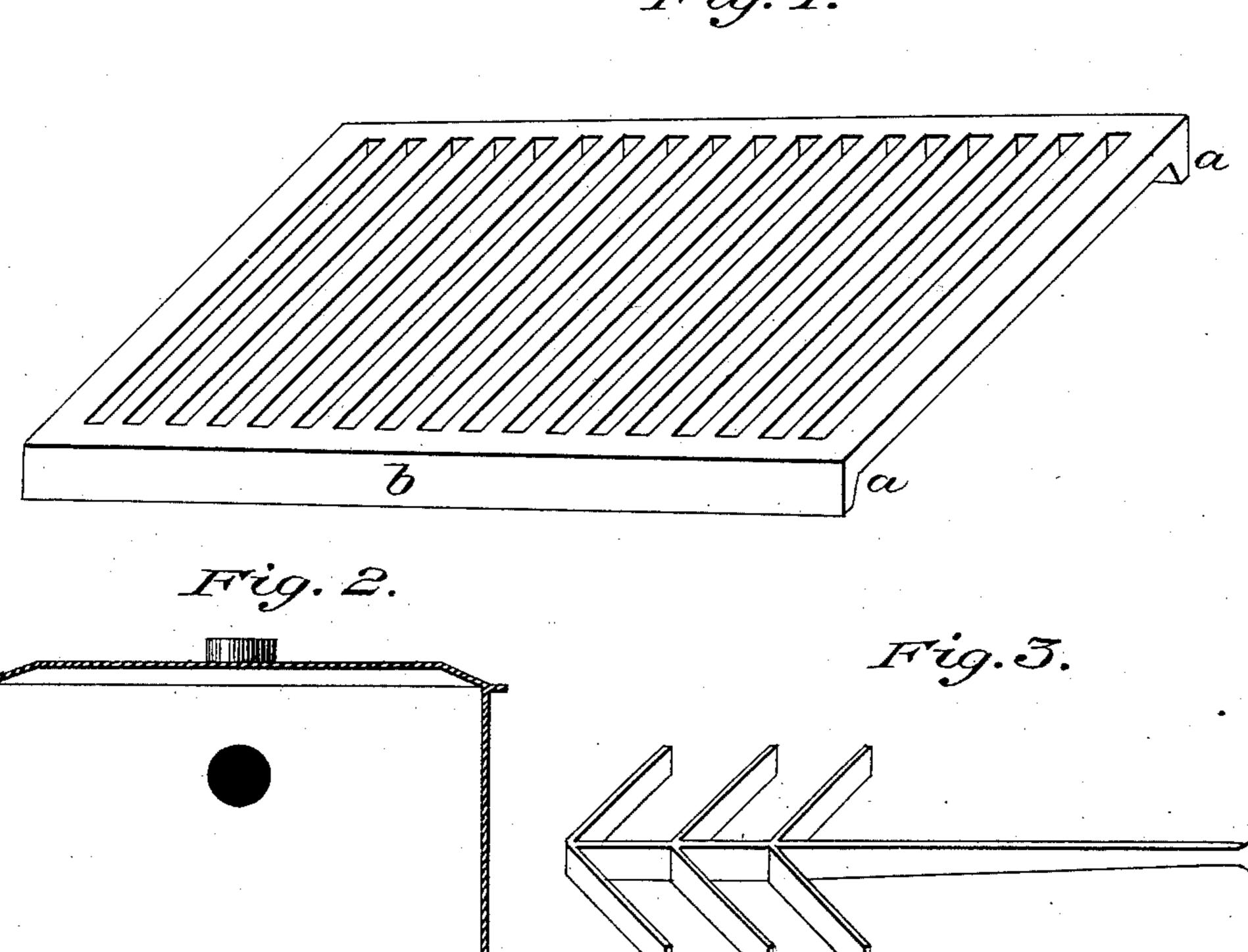
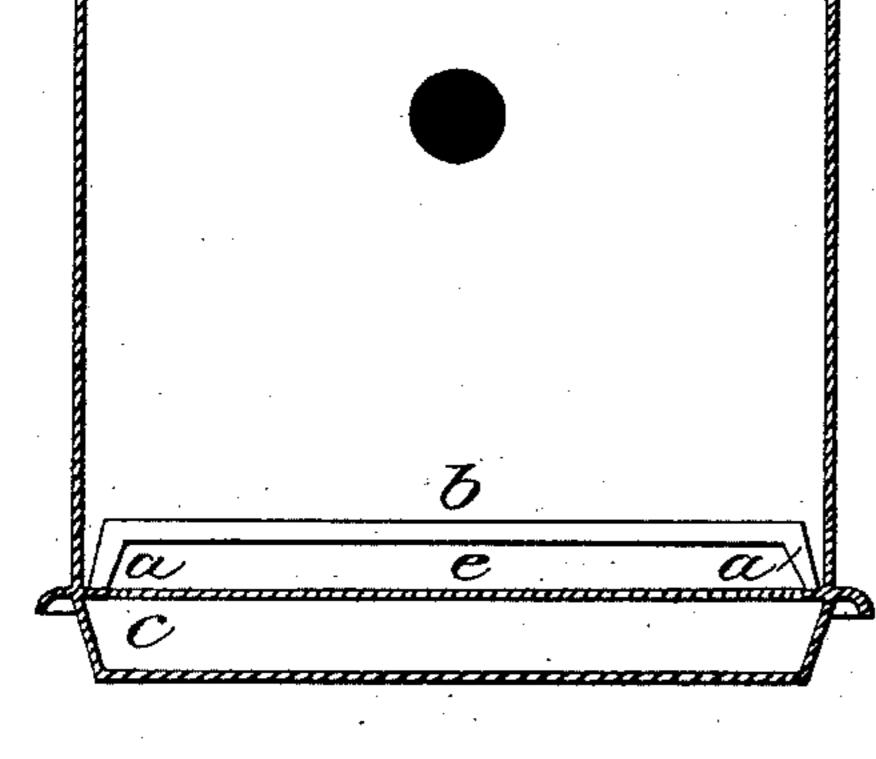
## W. C. SMITH.

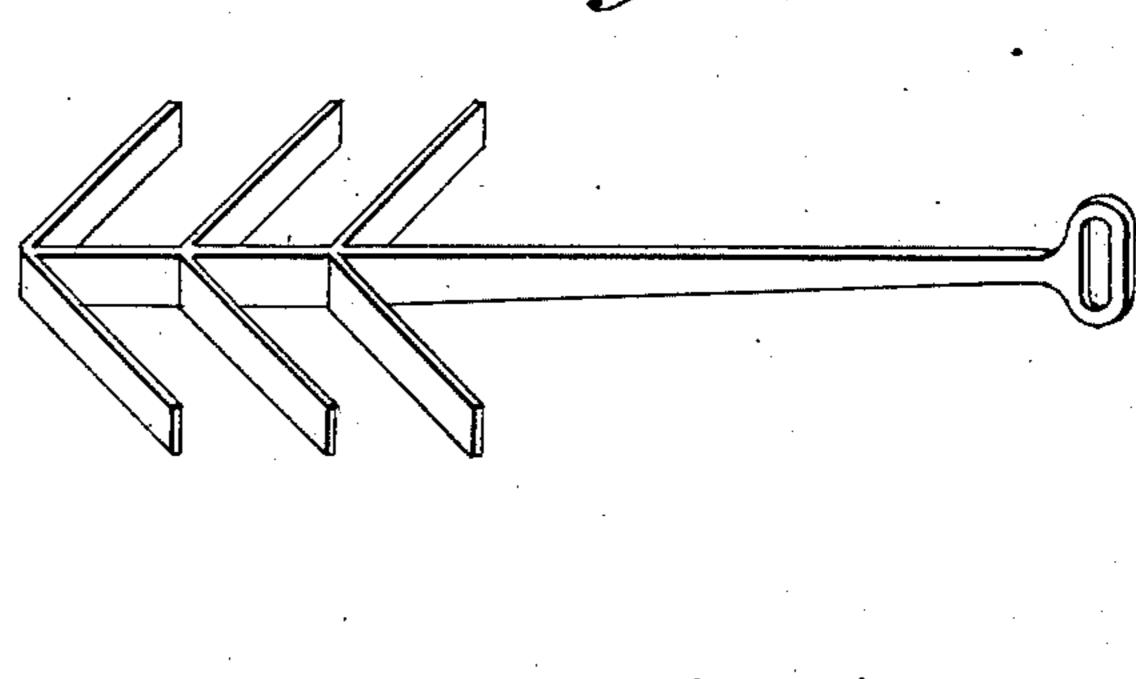
STOVE.

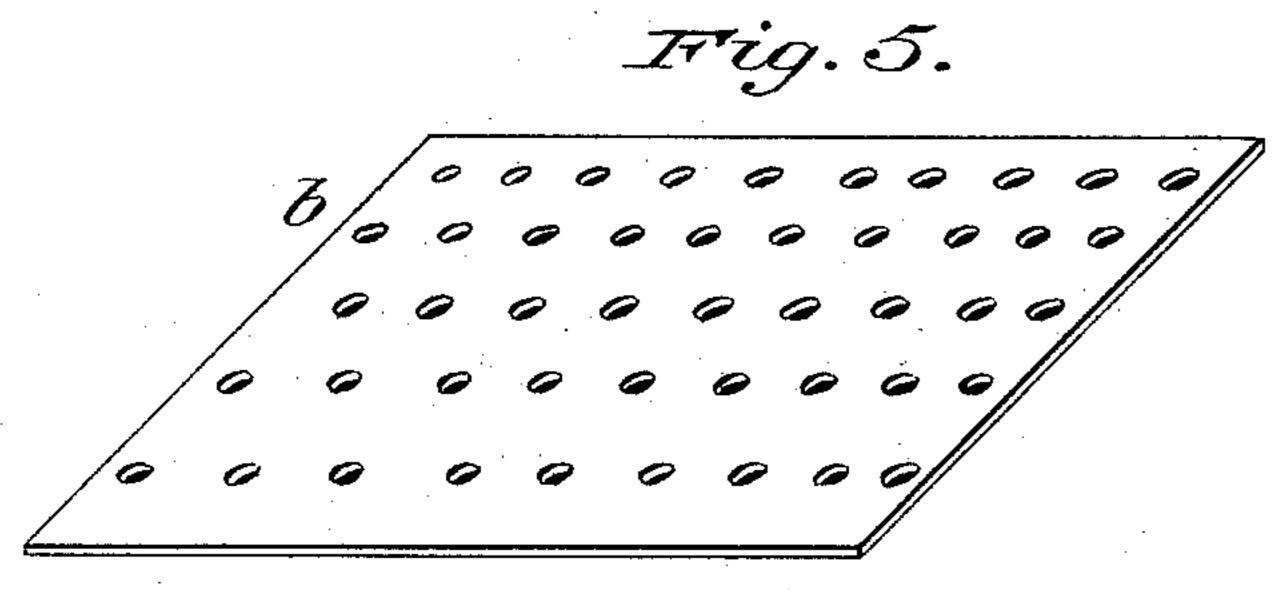
No. 327,336.

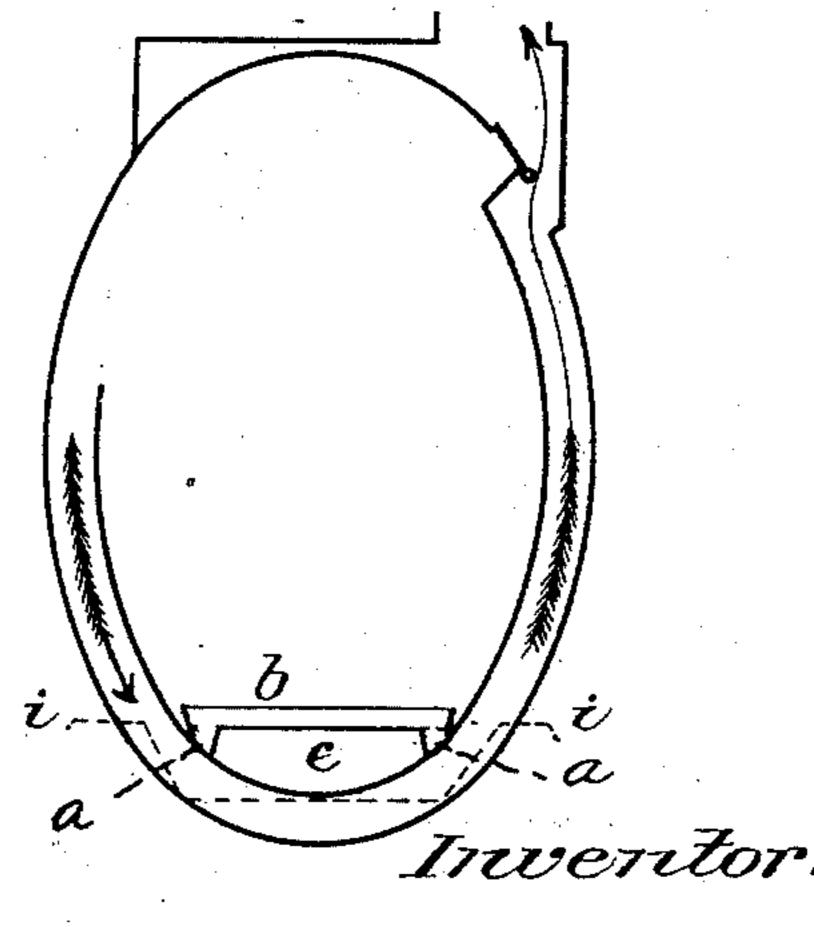
Patented Sept. 29, 1885.











Witnesses:

(No Model.)

2 Sheets-Sheet 2.

W. C. SMITH.
STOVE.

No. 327,336.

Patented Sept. 29, 1885.

Fig. 6.

WITNESSES: Menolds INVENTOR

Milliam C. Smith

BY

Brush Bllis

ATTORNEY

## United States Patent Office.

WILLIAM C. SMITH, OF WARSAW, MISSOURI.

## STOVE.

SPECIFICATION forming part of Letters Patent No. 327,336, dated September 29, 1885.

Application filed December 27, 1884. (No model.)

To all whom it may concern:

Be it known that I, WM. C. SMITH, of the town of Warsaw, in the county of Benton, State of Missouri, have invented an Improve-5 ment in Wood-Burning Heating-Stoves, which consists of an ash-sifting device or attachment to be applied to all varities of woodburning heating-stoves to secure the entire combustion of the fuel, and to furnish means 10 for the removal of ashes without interfering with the fire, of which the following description, taken in connection with the accompanying sheet of drawings, hereinafter referred to, forms a full and exact specification 15 of the same, wherein I have set forth the nature and principles of my said improvements by which my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to have

20 secured to me by Letters Patent. In the accompanying sheet of drawings, Figure 1 is a representation of the device to be used in the ordinary box-stoves having 25 of cast-iron having openings through which the ashes may pass, and having flanges or feet a a, of sufficient width, or other suitable support sufficiently high to admit of the removal of ashes, to prevent an inconvenient 30 accumulation in the fire-chamber. Fig. 2 is a sectional view of a square box-stove, showing the position occupied by the device at b, supported by its feet a a, forming a chamber, e. The ash-pit is formed in the hearth at the front, and is shown at c. Fig. 3 shows a device for removing the ashes from the chamber e, drawing them into the ash-pit c. Fig. 4 is a sectional view of the fire-box and flue of the Todd stove, showing the position oc-40 cupied by the device at b, with its supports a a, forming the chamber e, the dotted lines i i showing position occupied by the hearth, and forming the ash-pit c. Fig. 5, b represents the device in the form of a perforated 15 plate of cast-iron to be made of suitable size and form for any wood-burning heating-stove to which such a device may be attached, for the purposes described. Fig. 6 represents a

In the construction of wood-burning heating-stoves I do not claim as my invention a

longitudinal sectional elevation.

grate or a perforated plate, for they have been previously used, but not to secure the purpose or effect for which my invention is designed—namely, to form a supplementary 55 chamber into which the accumulating ashes above within the fire-chamber may be transferred by sifting through the openings in the plate into the space made, by an occasional withdrawal of the ashes from the space beforeath, without producing an under draft or otherwise affecting its operation as a woodburning stove.

panying sheet of drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements by which my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to have secured to me by Letters Patent.

In the accompanying sheet of drawings, Figure 1 is a representation of the device to be used in the ordinary box-stoves having flat square bottoms; and it consists of a plate of cast-iron having openings through which the ashes may pass, and having flanges or

The plate b is designed to be of a length less than the stove from front to rear, as shown, whereby a space, g, is formed between 80the front edge of said plate and the front or door of the stove, the hearth of the stove being constructed on a plane beneath or lower than the bottom thereof, as shown, by which the air entering at the draft-opening will be 85 induced to follow the direction indicated by the arrow, Fig. 6. In raking the ashes forward into the pit from the space under the plate to provide space into which the accumulated ashes above will fall, it is not 90 necessary to remove the entire mass that may have already sifted down, but simply enough to permit accommodation of those from above, it being desirable always to keep the space e well filled to attain the object 95 sought. The necessary opening of the door for the insertion of the raking implement does not retard or interrupt the operation to any material extent.

What I do claim as my invention is— The combination, with a wood-burning heating-stove having a hearth situated lower than its bottom provided with a draft-opening immediately in the rear of and beneath the front wall of the fire-chamber, of a perforated ash-sifting plate located in the bottom 5 thereof, the same being of a length less than that of the stove, whereby the space g is formed, and also having supporting legs or

feet whereby a space is formed between the plate and the bottom of the stove, substantially as described.

WM. C. SMITH.

Witnesses:
JNO. E. MORGAN, Jr.,
D. B. HURLBUT.