

(No Model.)

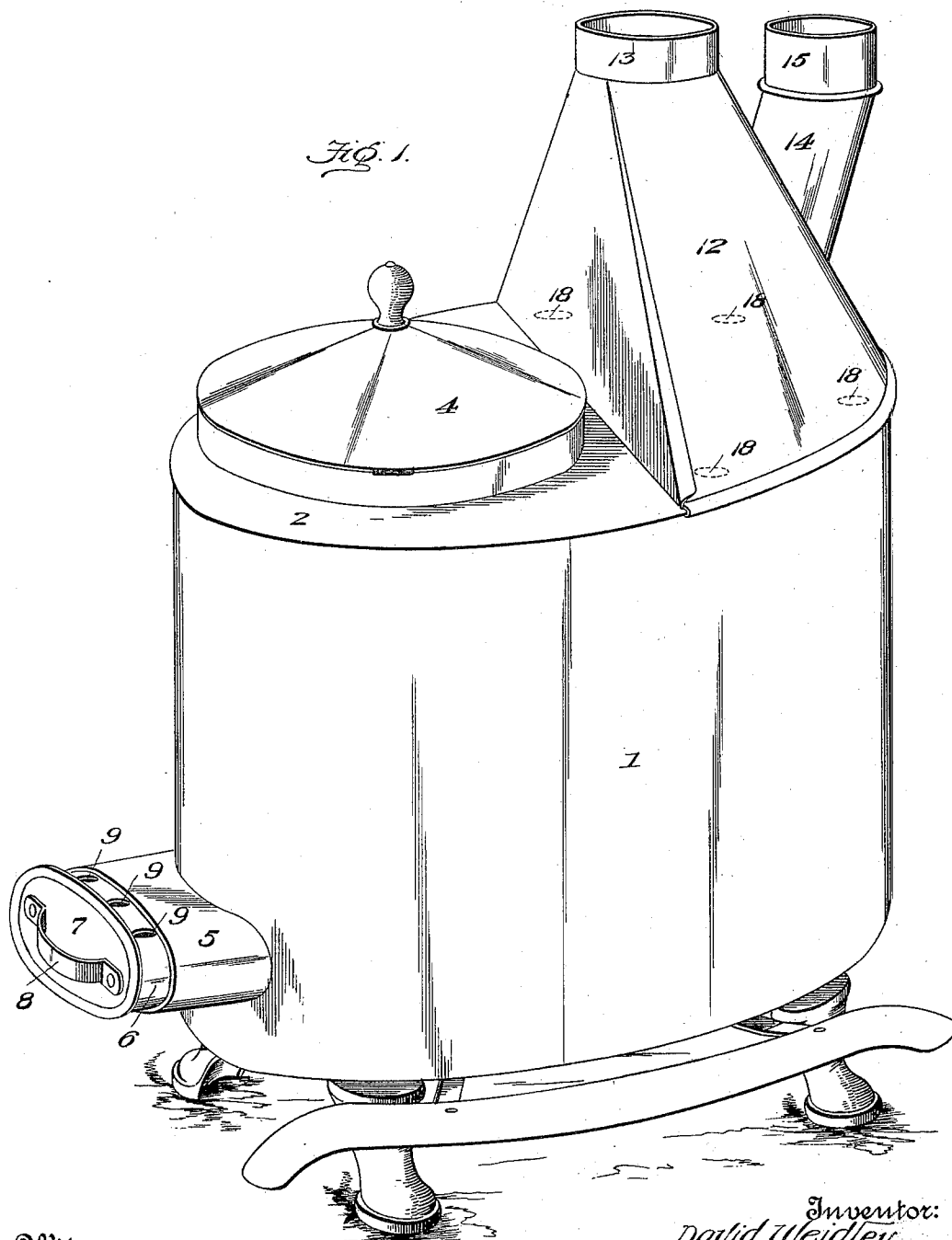
3 Sheets—Sheet 1.

D. WEIDLEY.

AIR TIGHT DOUBLE HEATER WOOD STOVE

No. 600,657.

Patented Mar. 15, 1898.



Witnesses
Wm. C. Ashiee
J. A. Millson

Inventor:
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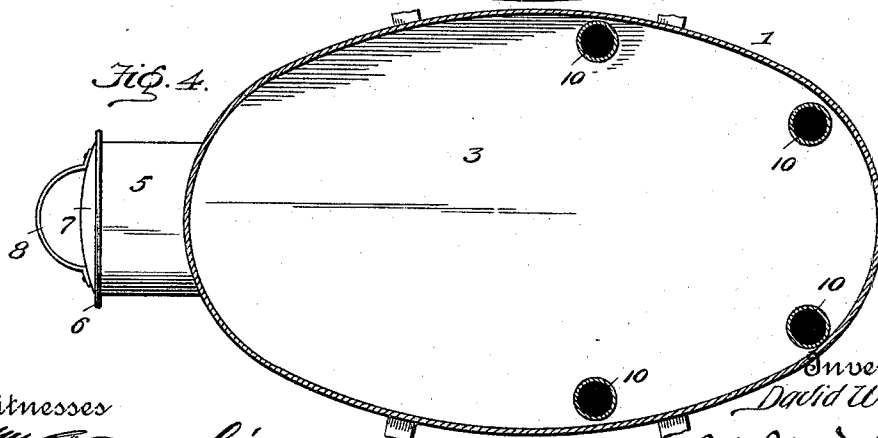
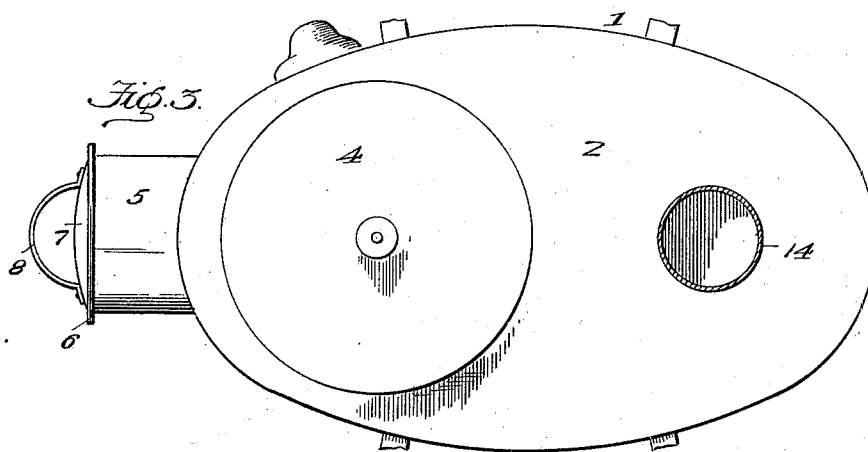
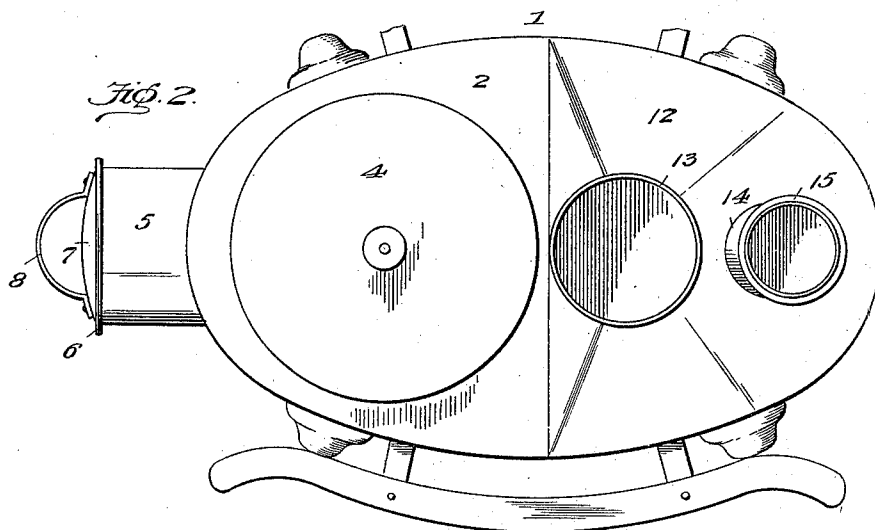
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D. WEIDLEY.
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3 Sheets—Sheet 3.

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Fig. 5.

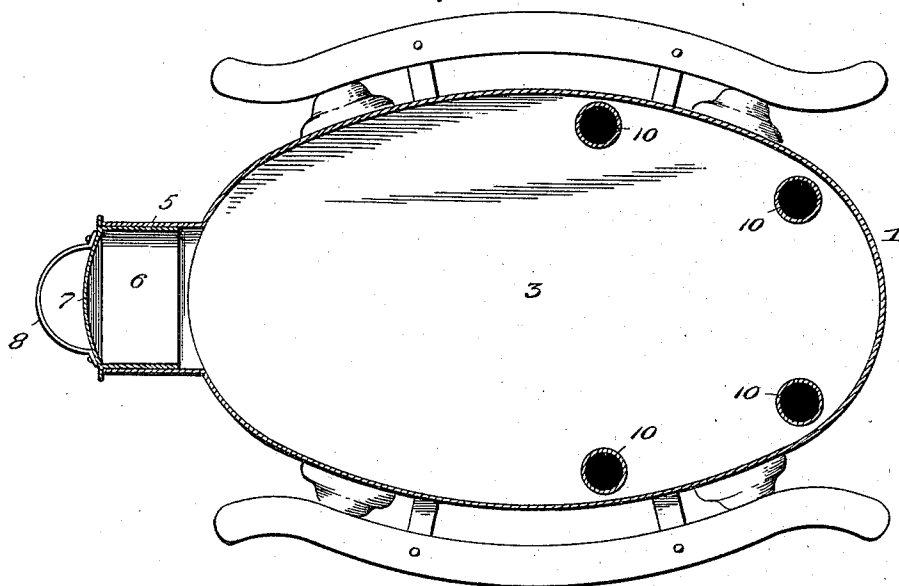
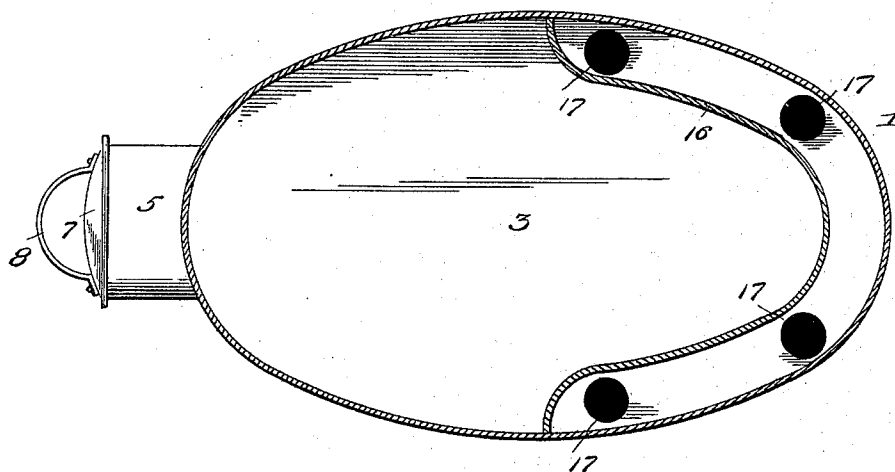


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

DAVID WEIDLEY, OF FURNISS, PENNSYLVANIA.

AIR-TIGHT DOUBLE-HEATER WOOD-STOVE.

SPECIFICATION forming part of Letters Patent No. 600,657, dated March 15, 1898.

Application filed February 3, 1897. Serial No. 621,821. (No model.)

To all whom it may concern:

Be it known that I, DAVID WEIDLEY, a citizen of the United States, residing at Furniss, in the county of Lancaster and State of Pennsylvania, have invented certain new and useful Improvements in Air-Tight Double-Heater Wood-Stoves; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to air-tight wood-heaters for domestic use; and the object is to provide a simple and effective wood-stove for heating one or more apartments.

To this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of my improved wood-heater. Fig. 2 is a top plan view. Fig. 3 is a top plan view with the hood removed. Fig. 4 is a top plan view with the top plate removed. Fig. 5 is a horizontal section, and Fig. 6 is a similar view showing a modification of the cold-air chamber.

1 represents an oval drum having horizontal top and bottom plates 2 and 3 arranged parallel with each other.

4 represents the hinged cover for the circular orifice in the top plate 2, through which the wood is supplied to the heater.

5 represents a horizontal pipe preferably oval in cross-section and opening into the interior of the front of the heater near the bottom. This pipe receives the correspondingly-shaped sleeve 6, the outer end of which is provided with a cap 7 and handle 8 for conveniently manipulating it. The upper side of the sleeve 6 is provided with a series of draft-orifices 9, and by sliding the sleeve in or out the amount of air supplied to the heater for combustion purposes can be regulated at will or entirely cut off when necessary.

10 10 represent a series of vertical pipes which extend entirely through the top and

bottom plates and constitute the cold-air chamber.

12 represents a funnel-shaped hood covering approximately the rear half of the top plate, and it terminates in collar 13, to which the hot-air flue is connected, leading to the apartment above.

14 represents the smoke-pipe, extending from the top plate diagonally upward through the hood and terminating in a collar 15, from which the smoke is conducted through the usual pipe to the chimney. Thus a direct communication between the top of the drum and the collar 15 is established, so that the necessity of several shoulders in said pipe is obviated and an increase of draft effected.

In the modification I have shown the cold-air chamber formed by a vertical plate 16, extending from the top to the bottom plate of the heater and curved to correspond to the rear portion of the heater and located inside a sufficient distance from the shell to form the chamber. Orifices 17 are provided for the admission of the air in the bottom plate, and corresponding orifices 18 in the top plate allow the heated air to escape into the hood, whence it is conducted to the apartment to be heated, as in the first instance.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

In a wood-stove, the combination with a drum constituting the fuel and combustion chambers, of a hot-air chamber situated above the drum and consisting of a hood having an outlet-collar 13 at the top thereof communicating with the hot-air flue and having its side walls converging toward said collar, an air-jacket situated beneath said hood and partially surrounding said drum and having air-inlets at the bottom thereof affording exterior communication and also having air-inlets at

the top thereof affording communication with
said hood, an outlet-collar 15 communicating
with the smoke-flue and situated in proximity
to the collar 13, and a pipe extending diag-
5 onally through the hood and connecting the
collar 15 with the top of the drum, substan-
tially as described.

In testimony whereof I hereunto affix my
signature in presence of two witnesses.

DAVID WEIDLEY.

Witnesses:

JOHN P. GLACKIN,
OLIVER D. REESE.