

N. A. BOYNTON.
Hot-Air Furnace.

No. 11,469.

Patented Aug. 8, 1854.

Fig: 1.

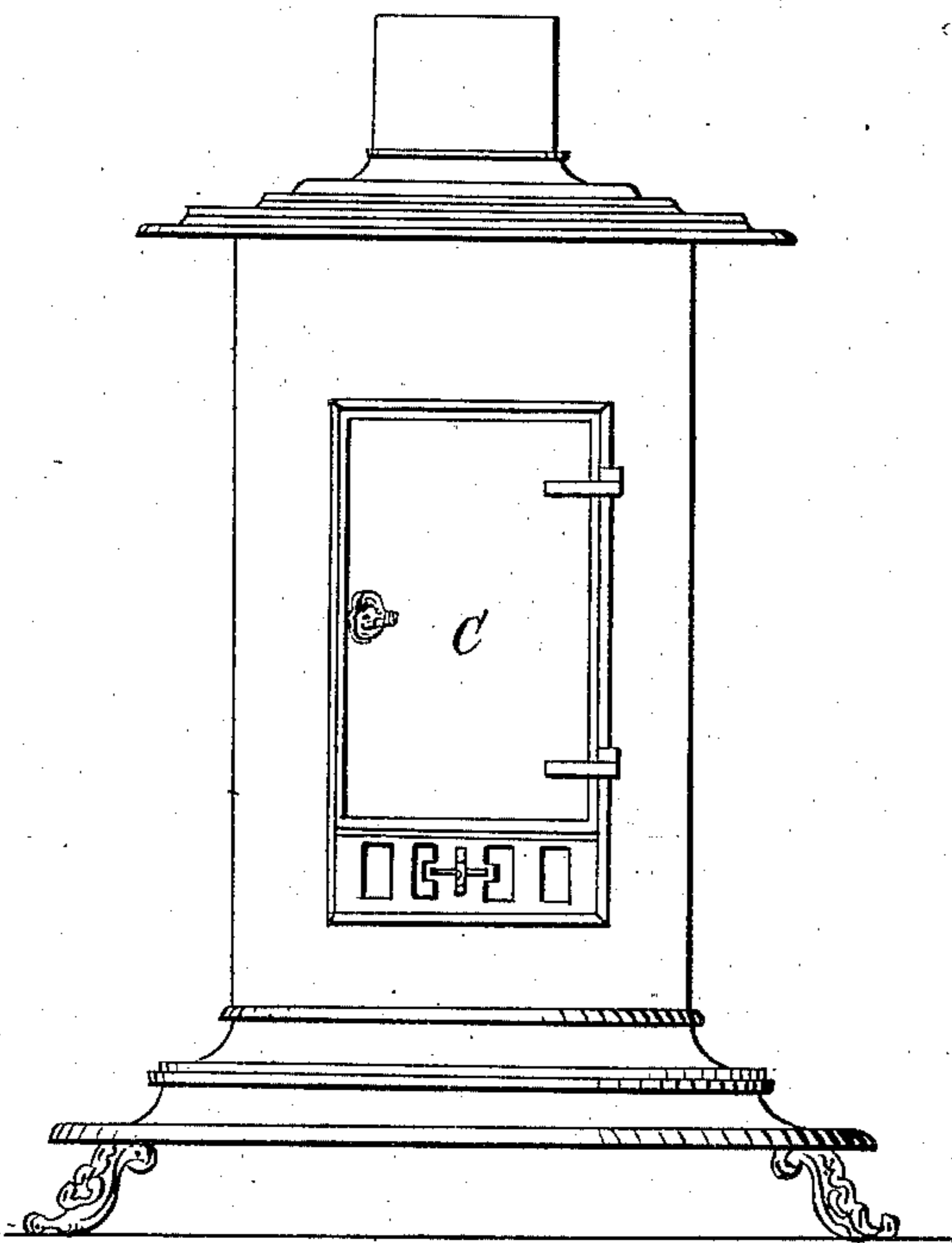


Fig: 2.

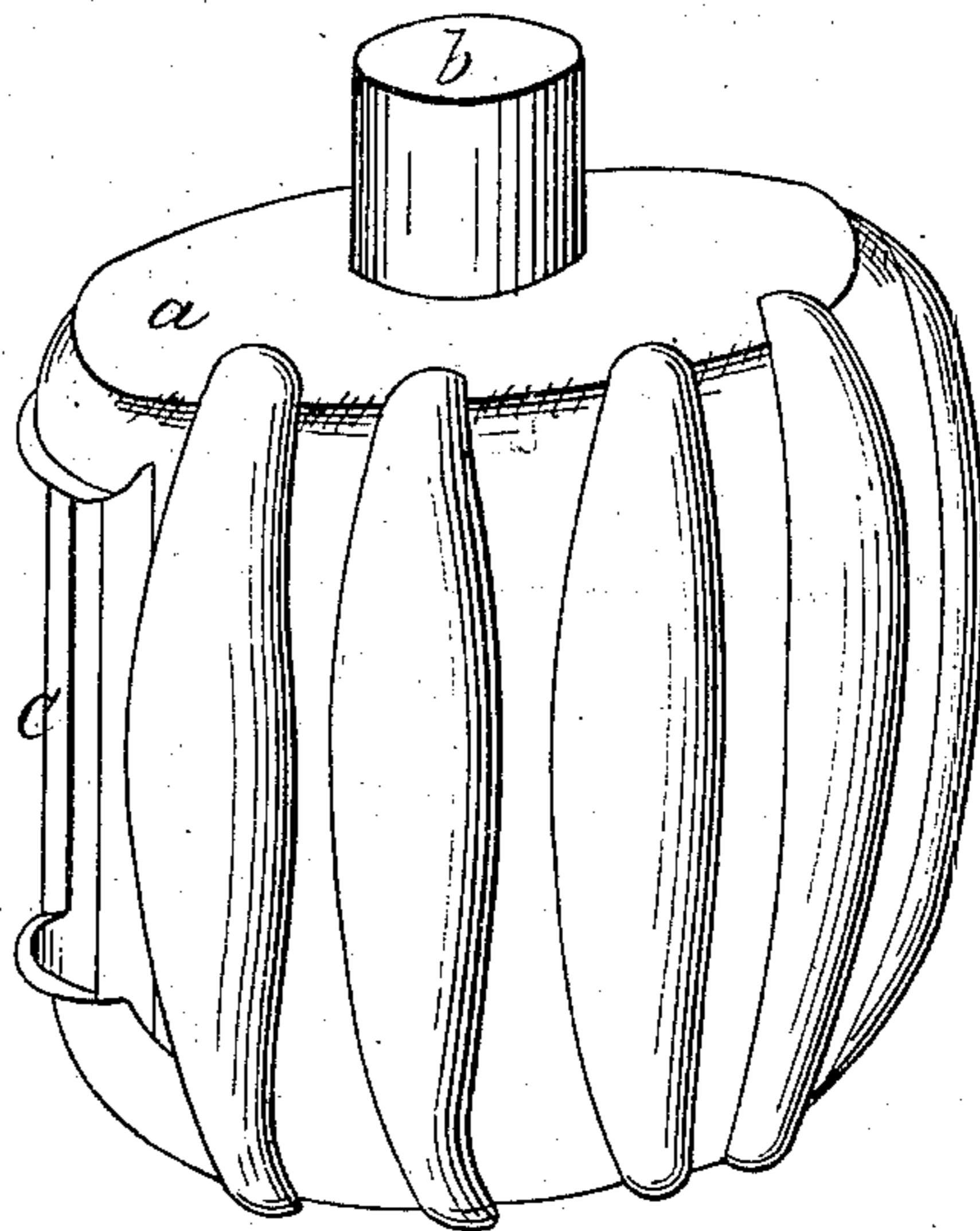
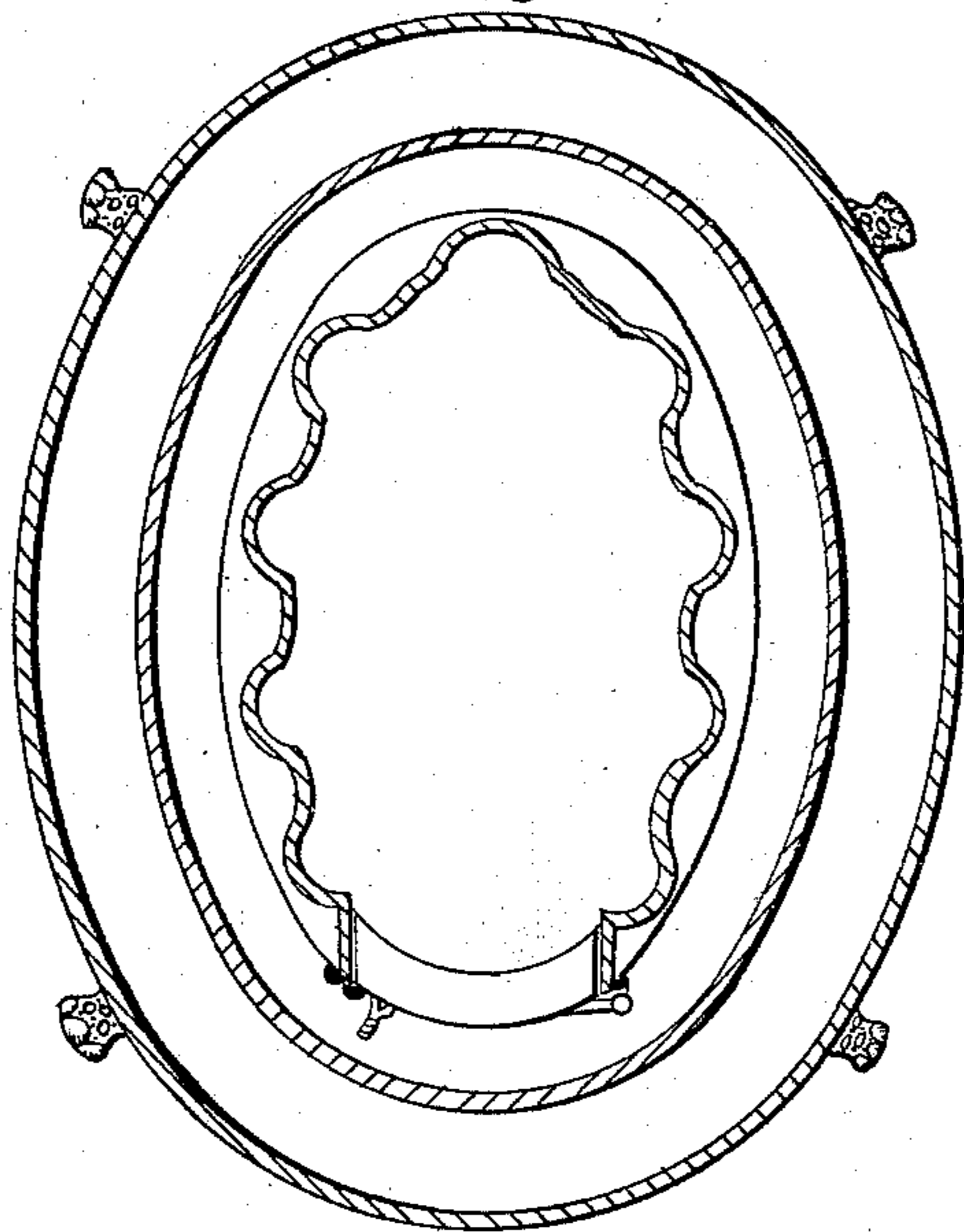


Fig: 3.



Inventor
N. A. Boynton

UNITED STATES PATENT OFFICE.

NATHANIEL A. BOYNTON, OF NEW YORK, N. Y.

AIR-HEATING STOVE.

Specification of Letters Patent No. 11,469, dated August 8, 1854.

To all whom it may concern:

Be it known that I, N. A. BOYNTON, of the city, county, and State of New York, have invented a new and useful Improvement in Constructing Heating-Stoves; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, in which—

10 Figure 1 is a side elevation. Fig. 2 is a view of the fire chamber; Fig. 3, a horizontal section of the stoves.

The nature of my improvements consist principally in forming the fire chamber of a single casting, so formed as to cause the blaze and heat to be thrown off from the wood burned therein at the sides, and thus to accumulate the heat at the outside of the fire chamber, and next to the body of air surrounding it. By forming the fire chamber in one piece, all leakage of gas is avoided, and the construction greatly simplified, while from its form great facility is given for unequal expansion and contraction in the fire chamber without injury.

25 I form the fire chamber (*a*,) of which a perspective view is given in Fig. 2, of a single casting, in a shape approaching an oblate spheroid, with its sides corrugated

vertically, with deep corrugations, a circular opening at the top, at (*b*,) for the funnel, and an oblong rectangular opening at (*c*) in front, for the admission of fuel. This fire chamber is placed with its shortest diameter horizontal in an outer case of any form or style of ornament, made of sheet or cast iron, which has an opening through the center of the bottom, to admit the external air; and another at the center of the top for the funnel from the fire chamber to pass through; around the outer portion of this top there are smaller holes in ornamental series for the heated air to pass off. A door in the front of this case corresponds with the hole in front of the fire chamber; by this means I form a simple and cheap heater.

Having thus fully described my improvement, what I claim therein as new, and for which I desire to secure Letters Patent, is—

Constructing the entire fire chamber of one single casting or piece, substantially in the manner and for the purposes set forth.

N. A. BOYNTON.

Witnesses:

WM. GREENOUGH,
THOS. E. WARREN.