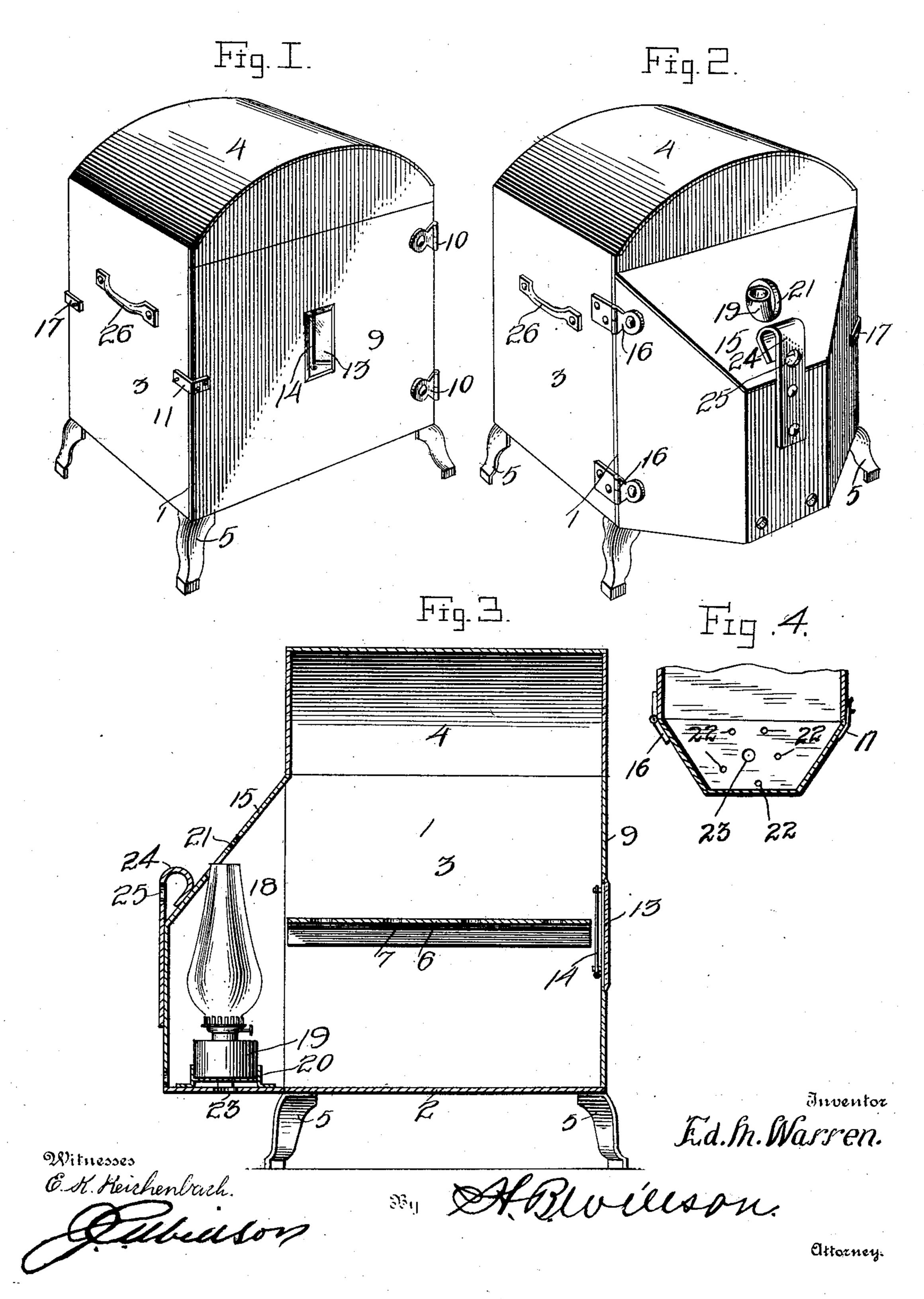
E. M. WARREN. HEATING APPARATUS. APPLICATION FILED MAR. 9, 1903.

NO MODEL.



United States Patent Office.

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HEATING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 749,244, dated January 12, 1904.

Application filed March 9, 1903. Serial No. 146,990. (No model.)

To all whom it may concern:

Be it known that I, Eddie M. Warren, a citizen of the United States, residing at Nashville, in the county of Davidson and State of 5 Tennessee, have invented certain new and useful Improvements in Heating Apparatus; 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 10 it appertains to make and use the same.

This invention relates to heating apparatus, and particularly to an apparatus designed for fermenting yeast, raising bread, and other

analogous uses.

The object of the invention is to provide a device of this character which is simple of construction, efficient in use, and comparatively inexpensive of production, and which may be employed for a variety of domestic purposes 20 wherein the article or substance to be treated is to be subjected to heat.

With this and other objects in view the invention consists in certain novel features of construction, combination, and arrangement of 25 parts, as will be hereinafter fully described, and particularly defined in the appended claims.

In the accompanying drawings, Figure 1 is a front perspective view of a heater embodying my invention. Fig. 2 is a rear perspec-3° tive view thereof, and Fig. 3 is a central vertical front-to-rear section. Fig. 4 is a detail fragmentary horizontal section on line 4 4 of Fig. 3, showing in plan view the bottom of

the alcoved compartment.

In carrying my invention into practice I provide a box or casing 1, preferably constructed of a bottom 2, sides 3, and a domeshaped top 4, but which may be of any desired form and construction to suit the pur-4° pose. The bottom of the casing may rest directly upon the floor or a support or may be provided with supporting-legs 5. Within the casing are one or more perforated shelves 6, resting on ledges 7. These shelves are adapted. 45 to support the pans or vessels containing the yeast, dough, or other material to be treated, the perforations therein allowing the currents. of heated air to freely circulate. The casing is closed in front by a door 9, preferably per-

manently connected thereto by hinges 10 and 50 adapted to be closed by a suitable fastening 11. In this door is an observation-opening closed by a glass panel 13, and upon the inner side of the door is arranged a thermometer 14, which may be observed from the exterior 55 through the panel to allow the temperature of the interior of the casing to be readily determined at any time. The back of the casing is similarly closed by a door 15, which is preferably connected thereto by removable or 60 separable hinges 16 and is designed to be held closed by a suitable form of fastening 17. This door is of such form as to provide an alcove or compartment 18 for the reception of a suitable heater 19, which may be a lamp, 65 a gas or gasolene burner, an electric heating device, or any other suitable form of heater. In the present instance I have shown the application of an ordinary kerosene-lamp, which is held in position upon the base of the door 70 by a metallic rim or socket 20. In the top of the door an opening 21 is formed for the reception of the upper end of the chimney of the lamp to allow the fumes to escape. An annular row of openings 22 in the bottom of 75 the door permit of the free inlet of air for ventilation. Where a gas or gasolene burner is used in place of the lamp, the bottom of the door is provided with a central opening 23 for passage of the pipe leading from the source 80 of gas or gasolene supply. The outer side of the door is provided with a handle or hanger 24, formed with an opening 25, by means of which the heater may be suspended when not in use from a nail, or any other suitable sup- 85 port. For convenience in transporting the device from place to place the sides 3 of the box 1 may be provided with suitable handles 26.

In using the heater for raising yeast or bread the material contained within a pan or 90 vessel is placed within the box and rested upon the perforated shelf. The lamp or heater is set in operation and the doors are then closed to prevent inlet of the outer cold air, except through the ventilation-openings. The inte- 95 rior of the box will then become heated and cause fermentation of the yeast in the wellknown way. The temperature of the interior

of the box may be readily ascertained at any time by consulting the thermometer through the observation-opening in the front door, and the temperature may be regulated by opening either door or by opening the rear door and turning down the lamp.

As stated, the device provides a convenient article for domestic use in raising bread and yeast, and it may also be employed for heating milk preparatory to churning. By using a gas, gasolene, or electric heater in place of the lamp the device may be also used for cooking or baking purposes, and thus is adapted for a variety of domestic purposes where the subject to be treated is to be subjected to heat.

It is contemplated in practice to make the apparatus of sheet metal; but it may be made of any material suitable for the purpose.

From the foregoing description, taken in connection with the accompanying drawings, the construction, mode of operation, and advantages of the invention will be readily apparent, it is thought, without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A heating apparatus of the character described, comprising a box or chamber having an alcoved door forming a compartment in open communication with said box or chamber,

for the reception of a heating device, substantially as described.

2. A heating apparatus of the character described, comprising a casing provided with a 40 chamber for material to be treated and with front and rear hinged doors, one of said doors being alcoved to form a supplemental chamber for a heater, said supplemental chamber being in open communication with the heating-cham-45 ber, substantially as described.

3. A heating apparatus of the character described, comprising a casing provided with a heating-chamber and an alcoved door, said door being provided in its top and bottom portions with ventilation-openings, and forming a supplemental chamber, in communication with the heating-chamber for the reception of a heater.

4. A heating apparatus of the character described, comprising a casing forming a heating-chamber and having a removable door, said door comprising divergent sides, a bottom, an outer end wall and an inclined top, the same forming a supplemental compartment for the reception of a heater, said compartment being in open communication with the heating-chamber, and the top and bottom walls of the door being provided with draft-openings, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

EDDIE M. WARREN.

Witnesses:

H. G. GREEN, J. L. PEARCY, Jr.