(No Model.)

D. A. WESLEY.

PORTABLE OVEN.

No. 532,408. Patented Jan. 8, 1895.

Fig. 1.

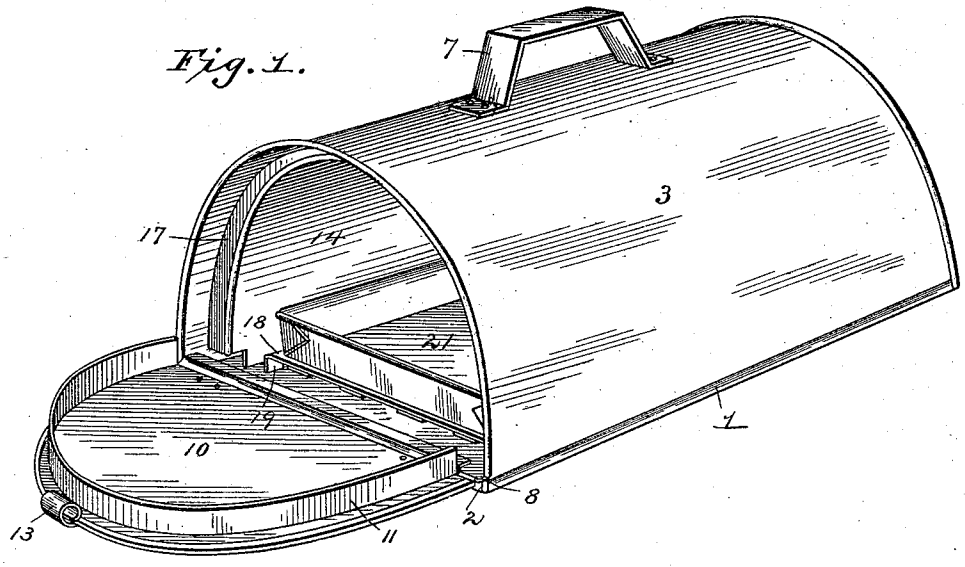


Fig. 2.

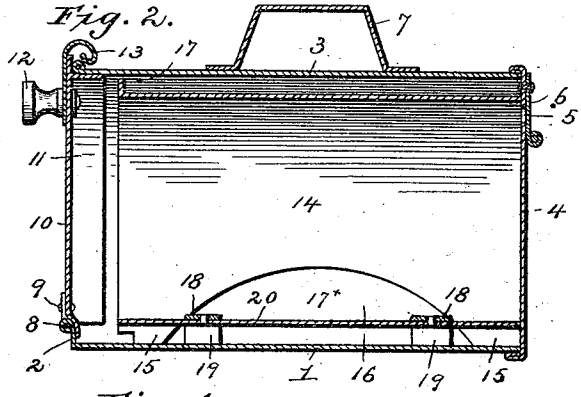


Fig. 3.

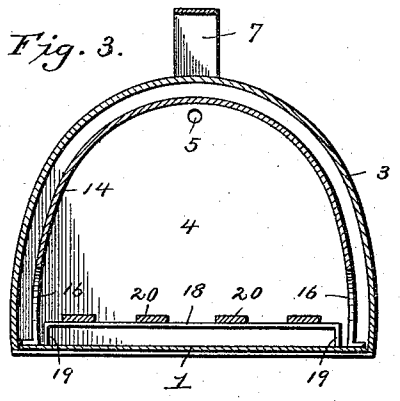


Fig. 4.

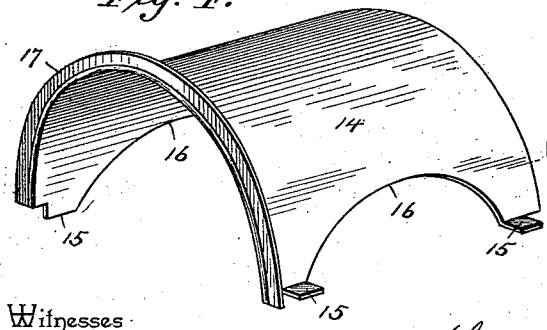
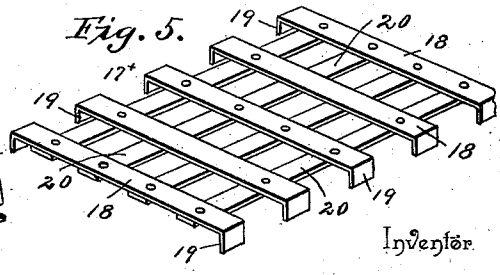


Fig. 5.



Witnesses
Harry L. Amer
John S. K. Siggers

Inventor
David A. Wesley.

By his Attorneys,
C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

DAVID ALBERT WESLEY, OF BUTTE, MONTANA, ASSIGNOR TO THE CHAMPION ROASTER COMPANY, OF SAME PLACE.

PORTABLE OVEN.

SPECIFICATION forming part of Letters Patent No. 532,408, dated January 8, 1895.

Application filed January 11, 1894. Serial No. 496,533. (No model.)

To all whom it may concern:

Be it known that I, DAVID ALBERT WESLEY, a citizen of the United States, residing at Butte, in the county of Silver Bow and State of Montana, have invented a new and useful Portable Oven, of which the following is a specification.

My invention relates to portable ovens, the objects in view being to produce a very simple construction of this class of ovens designed for use on gas, gasoline and other stoves, and in baking various articles of food; to so construct the oven that the same may be cheaply manufactured and sold, may be readily transported, and which will thoroughly and efficiently distribute the heat over the interior surface thereof and over the surface of the article contained therein, thus retaining all the flavor of the same and requiring no basting, so that an improved baking results from its use.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings:—Figure 1 is a perspective view of a portable oven embodying my invention, the bake-pan being arranged therein. Fig. 2 is a longitudinal sectional view of the same, the pan being removed. Fig. 3 is a transverse sectional view of the oven. Fig. 4 is a detail of the internal lining. Fig. 5 is a similar view of the rack for supporting the pan.

Like numerals of reference indicate like parts in all the figures of the drawings.

In the practice of my invention I preferably construct the same of light sheet-metal, though it may be partially or wholly cast, and it consists essentially of an oblong bottom 1, the front edge of which is slightly upturned as at 2. To this bottom are secured the opposite lower edges of an arched roof or hood 3, the same having a rear vertical wall 4, provided near its upper sides with a vent 5, at one side of which is pivoted a plate 6 for normally covering said vent. The hood, the bottom, the rear wall, and a door constitute an outer casing, the hood forming the top and side walls thereof. The upper side of the arched roof or hood is provided with a handle 7, by which the oven may be conveniently carried and transported from one position to another. The upper edge of the hood and the upper edge of the upturned portion of the bottom is beaded over a wire stiffening frame 8, and loosely hinged to the lower portion of this frame, by metal straps 9, is the door 10. This door 10 is provided upon its inner side with the flange 11, conforming in contour to the curvature of the hood or arched roof and adapted to snugly close within the same, and it has its lower edge inwardly and downwardly bent so as to form a depending transverse flange 10^a to take at the inner side of the upturned front end of the bottom and thus close the space that intervenes between the door and the said bottom. Thus I produce a practically tight oven, from which the odors cannot escape, so that each article being cooked retains all of its own odor or flavor, and I obviate the necessity of frequent basting. The free edge of the door is further provided with a knob 12, by which it may be opened and closed, and with the catch spring 13, designed to spring over the beaded portions of the front edge of the hood.

Arranged within the roof or hood and partaking of the contour thereof, though slightly less in diameter, is the internal lining 14, said lining being semi-cylindrical in cross-section, and extending nearly from end to end of the oven and forming an intermediate hot-air space. The lining rests at its lower end upon the bottom 1, for which reason its lower edge is, at its front and rear ends, laterally bent to form feet 15. Its opposite lower edges are furthermore between the feet provided with openings 16 that communicate with the bottom of the oven or the space within the lining and the intermediate hot air-space, so that a circulation of hot-air rising from the bottom may pass between it and the roof or hood. The front edge of the lining is provided with the outwardly turned flange 17, which contacts with the roof or hood and thus incloses the hot-air space between the same and prevents the heat from escaping by reason of the opening of the door of the oven.

The rack 17 is preferably provided for the oven, the same being removably supported upon the bottom, and as shown, consisting of a series of cross-bars 18, whose extremities

are downwardly bent to form feet 19, and a series of longitudinal pairs of straps 20 riveted at their points of intersection with the cross-straps. Upon this rack is supported a pan 21 of ordinary construction.

It will be seen that the oven is light, portable, and may be readily placed upon any heated surface.

In use the article to be cooked is placed in the oven and the door closed, and the flavor or aroma of the article will be maintained wholly within the oven and hence I obviate the necessity of basting the same during cooking. The heat rising from the bottom will pass through the openings in the side of the lining and will occupy the space between the lining and hood, being evenly distributed over said space, so that all parts of the article contained within the oven will be evenly browned or cooked. The steam vent in the rear wall is for the purpose of allowing the heated steam to escape before opening the door, when an inspection of the article or a removal of it is desired, and thus I avoid the unpleasant results of the hot steam being discharged against one's hands or face.

It will be understood that the oven is to be made in various sizes in accordance with the stove or range in connection with which it is to be used.

Having described my invention, what I claim is—

1. In a portable oven, the combination with the base having a front upturned edge, the back-wall, the curved hood arranged on the base and connected to the back-wall, and the wire stiffening-frame having the front edge of the hood beaded thereover and also the front upturned edge of the bottom, of the door arranged at the front end of the oven and having upon its inner side a flange for fitting within the hood and its lower edge inwardly and downwardly bent and forming an inner depending transverse flange to take in rear of the front upturned edge of the bottom, and hinged-connections between the door and the lower portion of the stiffening-frame, substantially as specified.

2. In a portable oven, the combination with the bottom, rear-wall and curved hood, said bottom having its front edge extended upwardly to form a flange, of a door hinged loosely to the flange and having its lower edge inwardly and downwardly bent in rear of the same and forming an inner depending transverse flange, so as to take within and close the intervening space between the flange and lower edge of the door at the point of hinging, substantially as specified.

3. The combination in a portable oven, of a casing having a flat bottom designed to be placed over or upon a suitable heating apparatus, a door extending across the entire front of the casing, and a removable inner lining extending over the top and side walls of the casing and forming an intermediate hot air space and contacting with the walls of the casing and closing the hot air space at the front and back of the casing, said lining being provided at the bottom with openings communicating with the hot air space and the space within the lining, substantially as described.

4. In a portable oven, the combination of a casing having a flat bottom and provided with an arched top, a door extending across the entire front of the casing, a removable inner lining conforming to the configuration of the sides and top of the casing and forming an intermediate hot air space and contacting with the rear wall of the casing, and provided at its front with an outward extending flange contacting with the walls of the casing at the front thereof and closing the hot air space, said lining being provided at its bottom with feet to rest upon the bottom of the casing, and having at opposite sides openings arranged at the bottom of the casing and communicating with the hot air space and the space within the lining, and the rack arranged on the bottom of the casing between the sides of the lining, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

DAVID ALBERT WESLEY.

Witnesses:

FRANK. D. NELSON,

FELIX B. DONNEL.