Dec. 1, 1925. 1,564,086

R. H. MacINNES

ELECTRIC STOVE OVEN

Filed Sept. 12, 1924

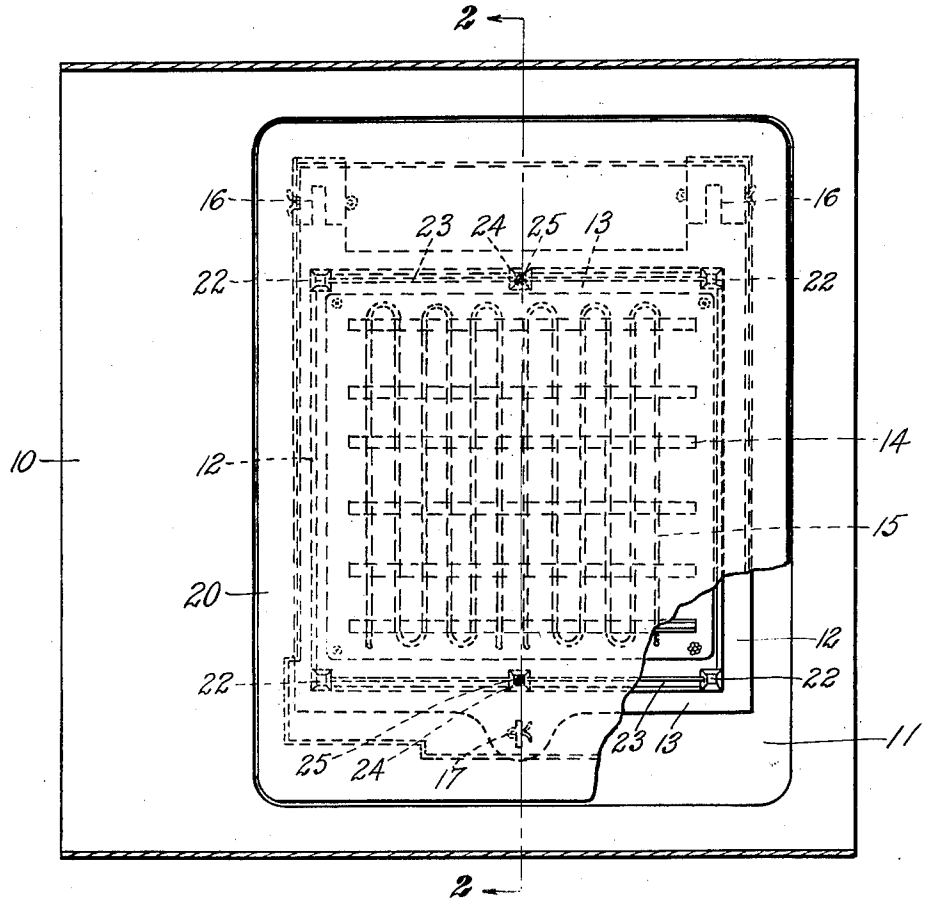


Fig. 1

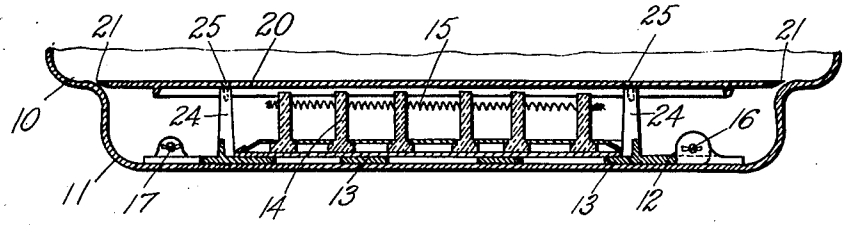


Fig. 2

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BY [illegible]

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UNITED STATES PATENT OFFICE.

ROBERT H. MacINNES, OF HAMILTON, ONTARIO, CANADA.

ELECTRIC STOVE OVEN.

Application filed September 12, 1924. Serial No. 737,316.

To all whom it may concern:

Be it known that ROBERT H. MacINNES, a subject of the King of Great Britain, residing at Hamilton, in the county of Wentworth and Province of Ontario, Canada, has invented certain new and useful Improvements in an Electric Stove Oven, of which the following is a specification.

This invention relates to electric stove ovens and more particularly to the closed oven burner or heater element type having the burner recessed in a well in the bottom of the oven.

One important object of the invention is to provide means for concealing the burner or heater element so that it is protected from injury.

A second important object is to provide a covering for the burner or heater element so that foreign matter such as crumbs, particles of food, dust and the like, is prevented from collecting in the bottom of the burner well or recess.

A third important object is to provide means to prevent the heat rising in a central column in the oven as is the case with open burners, and to equally distribute the heat in all directions.

A fourth important object is to provide means whereby the usual baffle plate used in ordinary ovens may be discarded and thereby provide more cooking space within the oven.

A fifth object is to provide an oven or flush oven bottom to all appearances and purposes unbroken by burner recesses, electrical connections and the like, and one upon which the cooking utensils are adapted to rest for heating, as well as upon the usual racks or oven trays.

Another object is to provide a more pleasing appearance to an electrically heated oven.

These, together with other objects may be attained by the construction, combination and arrangements of parts as will be hereinafter more fully described, illustrated in the accompanying drawing, and pointed out in the claims hereunto appended.

Referring to the drawings:—

Figure 1 is a plan view of an electric oven bottom constructed in accordance with this invention; and,

Figure 2 is a cross sectional front elevation of the oven bottom taken on the line 2—2 in Figure 1 in the direction of the arrows indicated thereon.

In the drawing the oven bottom plate is indicated by the numeral 10, and the burner or heater element well or recessed portion formed therein is indicated by the numeral 11. In order to fully illustrate the present invention a heater element or burner of the hinged type is shown by way of example, and this is shown as formed principally of a frame constituted of lateral members 12 and cross connecting members 13 on which is detachably supported the resistance wiring supports 14 through which are woven the resistance wiring 15.

This frame as constructed aforesaid is hingedly secured to the floor of the recessed portion 11 at points designated by 16, and removably fastened at its opposite end at a point indicated by 17 likewise to the floor of the recessed portion 11 of the oven.

The principal feature of the invention is the rectangular plate or cover 20 having bevelled edges 21 so that it fits flush with the oven bottom plate 10. This plate or cover is supported by a plurality of pillars 22 arranged along the heater element frame preferably at the corners thereof. These pillars are adapted to hold the plate at the required distance above the resistance coils or wiring 15, and the pillars are connected in pairs at their upper ends by rails or rods 23 to support the plate or cover while it is being inserted into place or removed from the oven, so that injury to the resistance wiring or its supports is thereby prevented. The plate or cover also rests upon intermediate pillars 24, and these intermediate pillars are tapped to receive machine screws 25 from the plate so that the plate may be removably secured in place. The plate or cover 20 absorbs the heat from the resistance coils 15 and equally radiates or distributes it to all parts of the oven.

There has thus been produced a simple and efficient device of the class described and for the purpose specified.

Having now fully disclosed the invention what I claim, is:—

1. In an electrically heated oven having a recess in the flooring thereof and an electric heater element or burner confined within the recess, a plurality of pillars on the heater element, a plurality of rails spanning the heater element and connecting said pil-

lars in pairs, and a plate or cover closing said recess above the heater element and supported upon said pillars.

2. In an electrically heated oven having a recess in the flooring thereof and an electric heater element or burner confined within the recess, a plurality of pillars on the heater element, a plate or cover closing said recess above the heater element and supported upon said pillars, a second plurality of pillars on the heater element also supporting said plate or cover, the second plurality of pillars being tapped to receive screws from said plate or cover.

In testimony whereof I have affixed my signature.

ROBERT H. MacINNES.