May 25, 1926.

1,586,158

R. H. MacINNES

OVEN FOR ELECTRIC RANGES

Filed Jan. 6, 1926

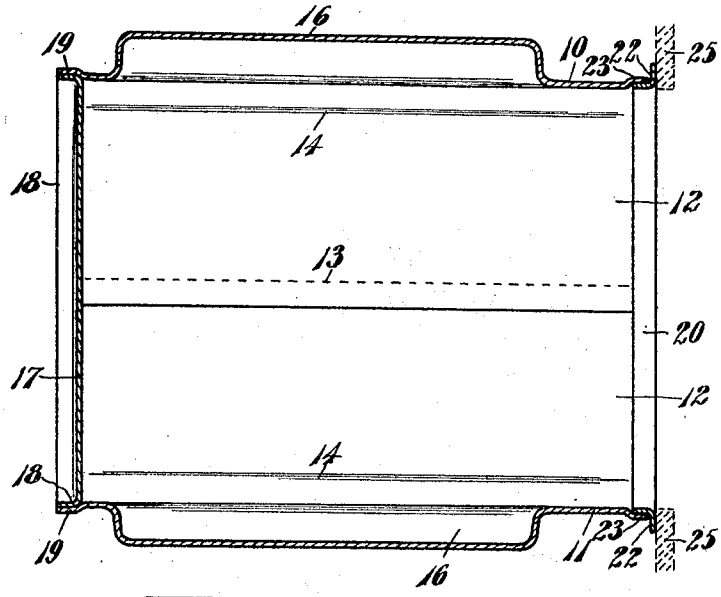


FIG. 1.

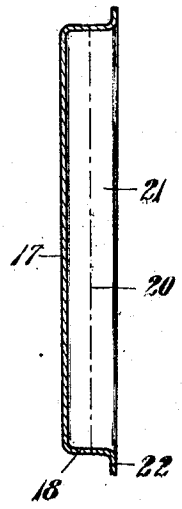


FIG. 4.

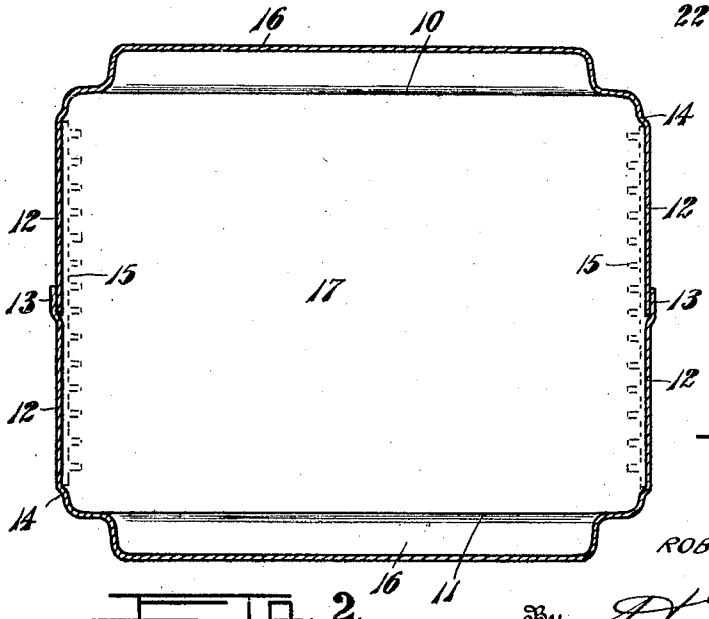


FIG. 2.

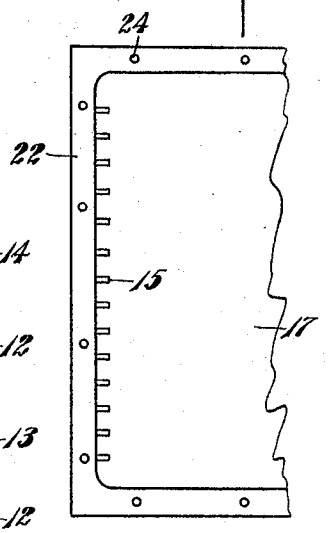


FIG. 3.

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UNITED STATES PATENT OFFICE.

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OVEN FOR ELECTRIC RANGES.

Application filed January 6, 1926. Serial No. 79,562.

This invention relates to improvements in the construction of ovens for electric ranges, and more particularly to improvements in the oven construction disclosed in my Patent No. 1,502,392, dated July 22, 1924.

The present invention consists of upper and lower horizontal bodies of sheet material constituting the top and bottom of the oven, said bodies having integral lateral projections extending from the main bodies to form the side walls of the oven, a rear sheet of material having an out-turned flange inserted within the structure at its rear part to form the rear wall of the oven, and an internal reinforcement band at the entrance to the oven structure and having a radially disposed flange for securing to the range.

The principal object of the invention is to generally simplify the construction of ovens for electric ranges by reducing the quantity of parts.

Another object is to provide an oven of the class specified which will be efficient, durable, and inexpensive to manufacture.

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

Referring to the drawing:—

Figure 1 is a cross-sectional side elevation of an oven constructed in accordance with this invention;

Figure 2 is a cross-sectional front elevation of the oven;

Figure 3 is a front elevation of the oven showing part of the same broken away; and,

Figure 4 is a cross-sectional side elevation of a sheet of material after being drawn or shaped to form the rear wall of the oven, and the entrance reinforcing band and flange for securing to the range.

Similar reference characters refer to corresponding parts throughout the several views.

The oven is formed principally of an upper body and a lower body, which are substantially identical, and drawn or shaped from sheet material.

These bodies comprise, respectively, the top section 10 and bottom section 11 of the oven, and the lateral end parts of the sheet material, of which the said bodies are constituted, are bent at right-angles to the main sections to form side wall sections 12. These side wall sections extend from the main sections approximately one-half of the depth of the oven, and the ends of these side wall sections on one of the bodies are outwardly off-set to provide laps 13 to overlap the ends of the side wall sections of the opposite body, so that when these ends are welded together the said side wall sections will be on a plane and therefore provide an even inner surface to the oven walls at the seams.

In the side walls of the oven thus formed, there are shallow recesses 14 to receive the upright members of the oven shelf racks 15 which are shown in dotted lines in Figure 2, so that the interior of the finished oven will be free from sharp corners.

In the top and bottom sections of the oven are the usual recesses 16 for the burners, but these recesses are common to electric range ovens and are consequently not included in this invention.

At the rear of the oven structure is inserted a sheet 17 to form the rear wall. This sheet is provided with an out-turned peripherical flange 18 which is welded to an outwardly off-set peripherical lap 19, thus completing the oven closure and providing a double thickness of material for reinforcing the rear ends of the longitudinal sections of the oven.

The sheet 17 is formed by cutting on the line 20, a body drawn from sheet material as shown in Figure 4, and when the sheet 17 with the flange 18 is thus separated from said body there remains a band 21 provided with a peripherical radial flange 22.

The said band is fitted within a peripherical outwardly off-set lap 23 in the forward end parts of the longitudinal sections of the oven, thus reinforcing the oven entrance, while the flange 22, which is perforated at spaced intervals as at 24 for the reception of bolts, is adapted to be bolted to a portion 25 of the range as shown in dotted lines in Figure 1.

It will be noted that the inner surface of the band 21 is aligned with the inner surface of the oven so that the completed structure will be free from sharp corners. It will also be noted that all small crevices resulting from the union of the aforesaid sections

and parts will fill with enamel when the finished oven is being enameled, and consequently all such joints and seams will be imperceptible.

There has thus been produced a simple and efficient device of the class described and for the purpose specified, and now having fully described the invention and ascertained the manner in which it is to be performed, what I claim, is:—

In an oven for electric ranges, an upper body having a top section and integral side wall sections at right-angles with the top section, a lower body having a bottom section and integral side wall sections at right-angles with the bottom sections, outwardly off-set laps on the side wall sections of one of said bodies, said laps overlapping the ends of the side wall sections of the opposite body and welded thereto so that the main portions of the side wall sections of one body align with those of the other body, outwardly off-set peripherical laps on both ends of the structure formed by the aforesaid union of said bodies, a rear wall having an out-turned peripherical flange, said wall being inserted in the rear of said structure so that said flange is confined in the lap thereon and welded to the lap, an internal band confined in the lap on the forward end of the structure and welded thereto so that the inner surface of the band aligns with the inner surfaces of the adjacent parts of the structure, and a radially disposed peripherical flange on the outer edge of said band abutting the edges of the latter mentioned lap.

In testimony whereof I have affixed my signature.

ROBERT H. MacINNES.