

July 22, 1924.

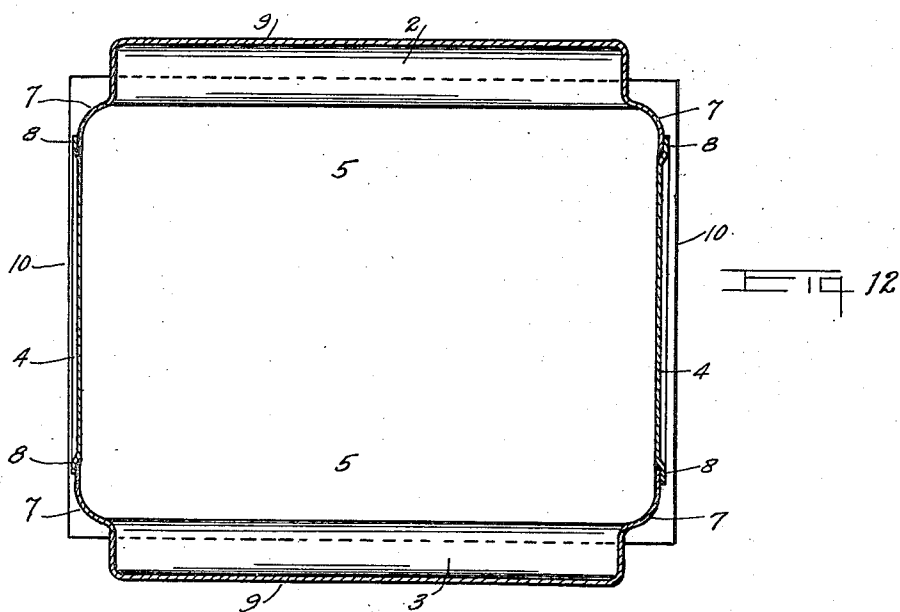
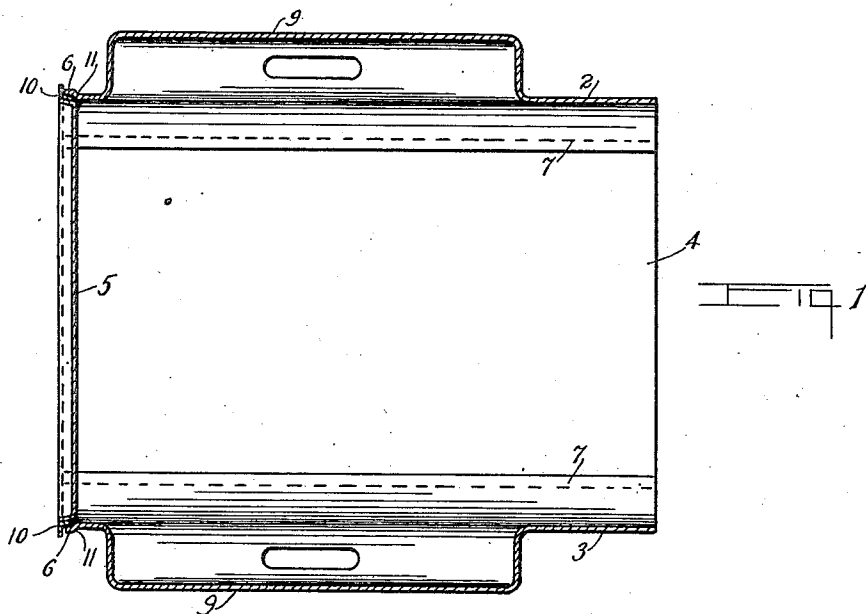
1,502,392

R. H. MacINNES

OVEN FOR ELECTRIC RANGES

Filed March 24, 1924

2 Sheets-Sheet 1



INVENTOR

ROBERT H. MACINNES

By *P. H. Anderson*
Att'y.

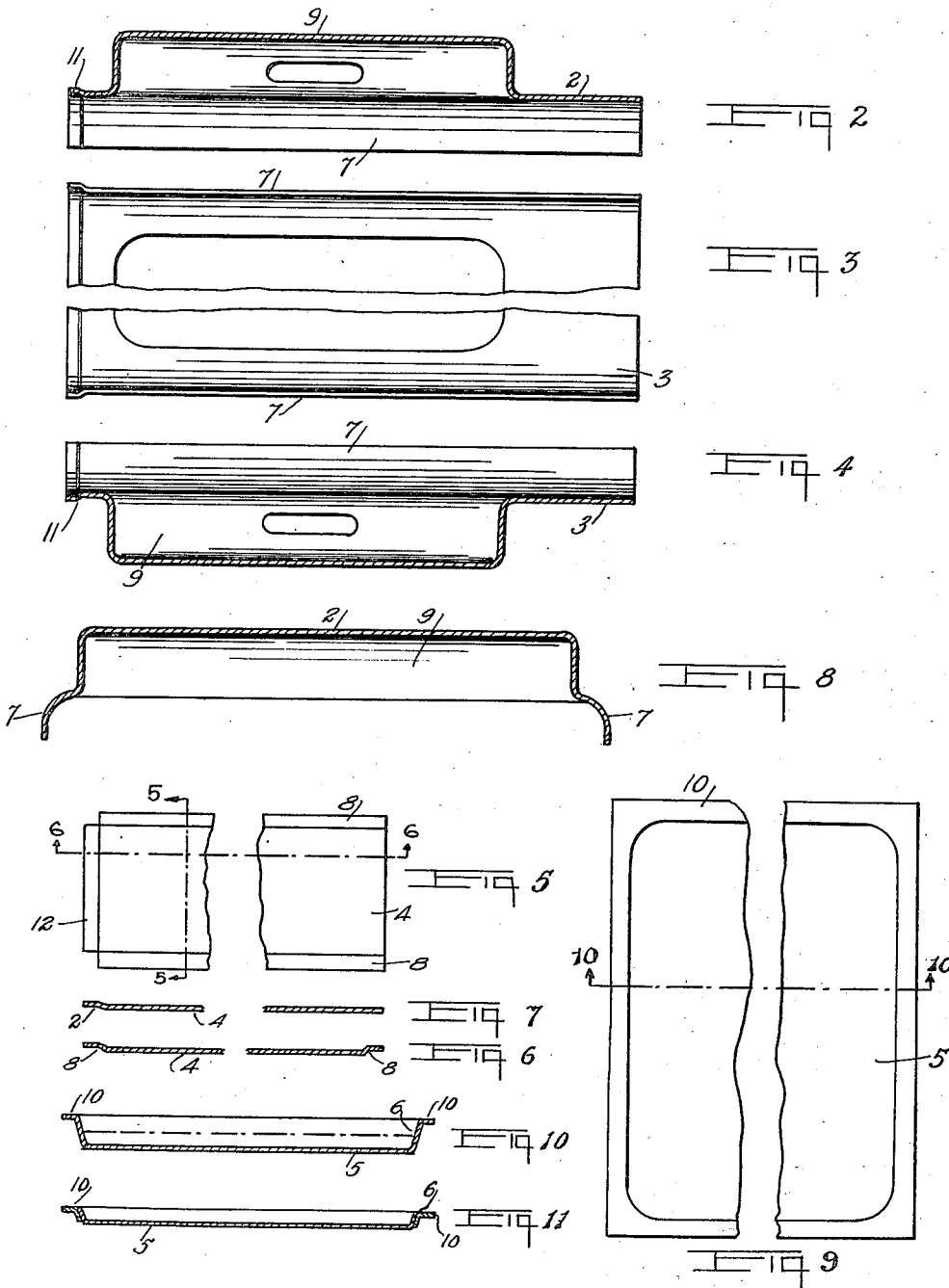
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2 Sheets-Sheet 2



INVENTOR

ROBERT H. MACINNES

By *H. E. Hendley*
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Patented July 22, 1924.

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UNITED STATES PATENT OFFICE.

ROBERT H. MACINNES, OF HAMILTON, ONTARIO, CANADA, ASSIGNOR TO D. MOORE COMPANY, LIMITED, OF HAMILTON, CANADA.

OVEN FOR ELECTRIC RANGES.

Application filed March 24, 1924. Serial No. 701,405.

To all whom it may concern:

Be it known that I, ROBERT H. MACINNES, a subject of the King of Great Britain, residing at Hamilton, in the county of Wentworth and Province of Ontario, Canada, have invented certain new and useful Improvements in Ovens for Electric Ranges, of which the following is a specification.

My invention relates to improvements in ovens for electric ranges and more particularly to the construction of electrically or spot welded ovens, and consists essentially of top and bottom sheets having rounded lateral ends to which are welded lateral sheets having offset top and bottom edges to overlap the rounded ends of the top and bottom sheets forming a flush inner surface, a flanged rear frame welded in a seat formed by offset rear edges of the top and bottom sheets, and a rear sheet having outwardly directed flanges and set into the orifice formed by the assembling of the aforesaid members, the flanges being welded to the inner surfaces of the flanges on said frame.

The principal object of the invention is to generally improve and simplify the construction of electric ovens and to provide parts thereof which may be readily and easily assembled, having a neat appearance with rounded corners and an interior, when enameled, resembling a single piece, no joints being in evidence.

A further object is to provide an oven of the class described which will be simple, durable, and inexpensive to manufacture.

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

Referring to the drawings;

Figure 1 is a cross sectional side elevation of the entire oven shown broken in the middle;

Figure 2 is a cross sectional side elevation of the top sheet;

Figure 3 is a top view of the bottom sheet, a bottom view of the top sheet being similar;

Figure 4 is a cross sectional side elevation of the bottom sheet;

Figure 5 is a side elevation of one of the lateral sheets;

Figure 6 is a sectional front elevation of

the lateral sheet taken on the line 5-5 in Figure 5;

Figure 7 is a sectional bottom view of the lateral sheet taken on the line 6-6 in Figure 5;

Figure 8 is a sectional front elevation of the top sheet;

Figure 9 is a front elevation of the rear frame and rear sheet before being separated to form the two parts.

Figure 10 is a sectional bottom view of the same taken on the line 10-10 in Figure 9;

Figure 11 is a sectional bottom view of the rear frame and rear sheet reunited by welding after being separated by cutting as indicated by the chain line in figure 10; and,

Figure 12 is a sectional front elevation of one side of the oven.

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

The oven is formed principally of the top sheet 2, similar bottom sheet 3, lateral sheets 4, rear sheet 5, and the rear frame 6.

The top and bottom sheets 2 and 3 are exactly similar in construction and are in opposed relation when the oven is assembled, as are the lateral sheets 4 which are also similar to each other in construction. The top and bottom sheets are rounded at their lateral ends as indicated by 7 and said rounded edges are welded to offset portions 8 of the lateral sheets 4. These offset portions on said lateral sheets are provided to affect a flush or even surface to the interior of the walls of the oven, the crevices remaining at the joints being later filled with enamel to present a perfectly smooth and unbroken surface. Recesses 9 are provided in the said top and bottom sheets to contain the electric burners, but such recesses are not included in the present invention.

The rear sheet 5 and frame 6 are first formed in a flanged dish shaped sheet as shown in Figure 10, which is cut simultaneously with the forming thereof, on the chain line shown in the same figure. The two parts are then set and welded, the bottom part of the dished portions or sheets 5 within the remaining frame 6, thereby constituting a dished sheet of more shallow proportions and having double walls formed of the edges of the sheet and edges of the frame, the edges of the frame being provided with peripheral flanges 10.

The rear frame 6 and the sheet 5 are now set in the rear orifice formed by the top and bottom sheets and the lateral sheets, the rear edges of the top and bottom sheets being offset as indicated by 11, and the rear edges of the lateral sheets being offset as indicated by 12, to receive them, as shown in Figure 1. The flange 10 on the frame 6 abuts against the rear edges of the top, bottom and lateral sheets, as indicated.

There has thus been provided an inexpensive and useful oven of the class specified.

Having now fully described by invention what I claim and desire to secure by Letters Patent, is:—

In an oven for electric ranges, top and bottom sheets having rounded lateral ends, lateral sheets connecting the top and bottom sheets by having offset upper and lower edges overlapping the edges of the rounded lateral ends of the top and bottom sheets,

the said rounded ends and lateral sheets being upon a common plane and thus providing an even inner surface to the side walls of the oven, said top and bottom sheets having offset rear edges and said lateral sheets having offset rear edges, a rear frame structure inserted between the offset ends of the top and bottom sheets and the offset ends of the lateral sheets and provided with a peripheral flange at the outer edge thereof abutting against said ends of the top, bottom and lateral sheets, and a rear sheet provided with an outwardly directed peripheral flange inserted within said frame structure, substantially as described.

In testimony whereof I have affixed my signature.

ROBERT H. MACINNES.

Witnesses:

H. G. HENDRY,
V. D. EARLE.