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H. E. MILLS ET AL

2,342,956

CABINET

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Fig. 1.

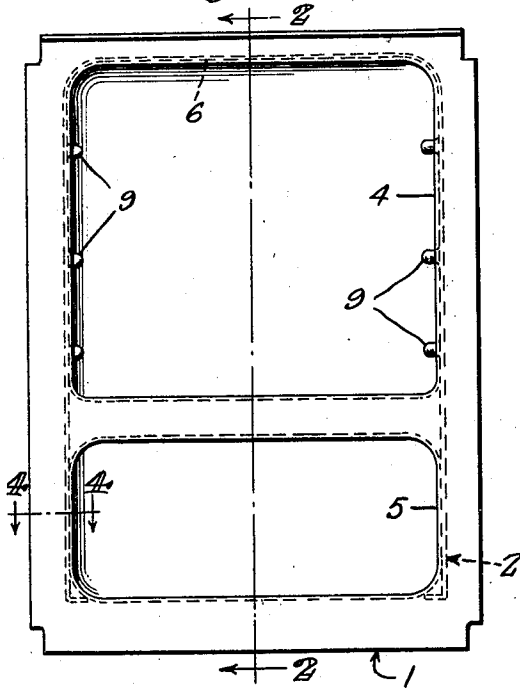


Fig. 2.

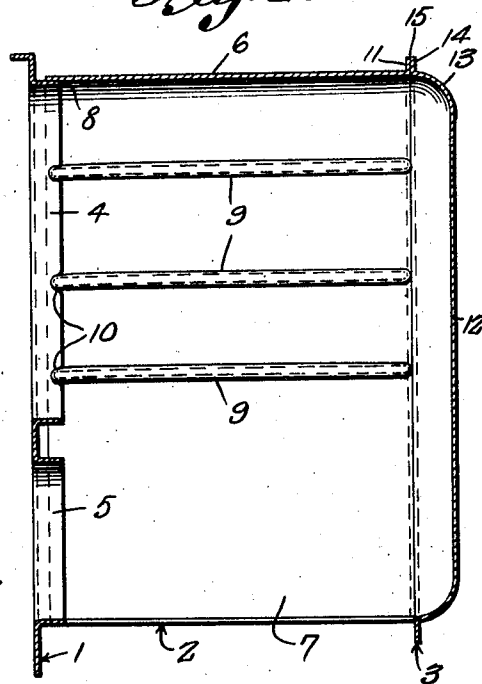


Fig. 3.

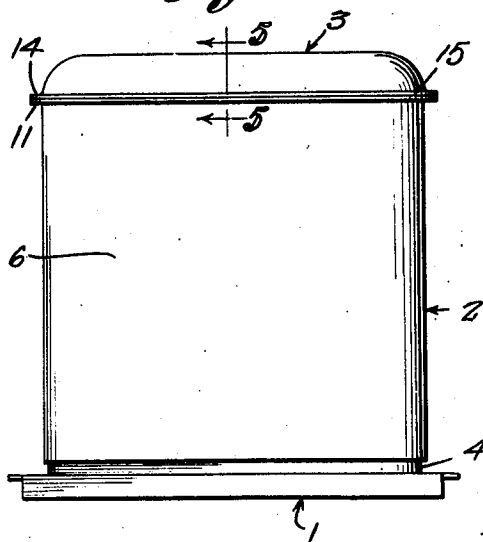


Fig. 4.

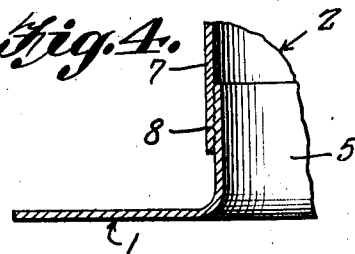
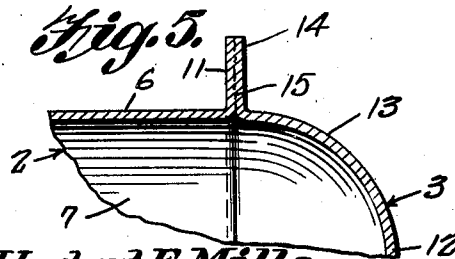


Fig. 5.



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WITNESS

UNITED STATES PATENT OFFICE

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CABINET

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Application September 19, 1941, Serial No. 411,584

2 Claims. (Cl. 312—156)

This invention relates to cabinets, and its general object is to provide a cabinet which can be maintained in a clean and sanitary condition, with minimum effort in that the parts thereof are constructed to include curved portions and are welded together to eliminate interior square corners, right angled joints, as well as cracks and crevices, when the associated parts are coated with porcelain or other coated materials, as distinguished from ovens now in use, which include straight front, back, and side panels, secured together by bolts and screws that become loose and allow the joints to open for the escape of heat, and such construction provides seams and joints within which accumulate dirt, foods and grease that cannot be removed, thus rendering a cabinet of that type impossible to retain in a clean condition.

A further object is to provide a cabinet of the character set forth, that is simple in construction, inexpensive to manufacture, and extremely efficient in use and service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a front view of the cabinet unit which forms the subject matter of the present invention.

Figure 2 is a sectional view taken approximately on line 2—2 of Figure 1.

Figure 3 is a top plan view.

Figure 4 is an enlarged sectional view taken approximately on line 4—4 of Figure 1, looking in the direction of the arrows.

Figure 5 is an enlarged sectional view taken approximately on line 5—5 of Figure 3, looking in the direction of the arrows.

Referring to the drawing in detail, it will be noted that we have illustrated only those parts of a cabinet which constitute our invention, as certain parts are excluded, such as the bottom wall, door frames and the partition that provides the compartments as those parts are of the usual construction. The parts shown are assembled in a single unit and installed in a gas range in the usual manner, and the unit consists of a front section 1, a body section 2 and

a rear section 3, each being made from sheet metal, by any suitable process. The front section is in the form of a rectangular frame having a large upper door opening for the upper compartment and a small lower door opening for the lower compartment and this section is formed with inwardly directed marginal flanges 4 and 5 about the openings which together with the flanges have rounded corners, as best shown by dotted lines in Figure 1.

The body section includes an upper front wall 6 and side walls 7 that are integral with and merge into the wall 6, in rounded formation, and the front edge portions of the walls 6 and 7 are disposed in overlapped relation with the flanges 4 and 5 and welded thereto as at 8, the wall 6 being welded to the upper portion of the flange 4, while the walls 7 are welded to the side portions of both of the flanges 4 and 5, as will be apparent upon inspection of Figures 2 and 4.

Formed at equidistantly spaced intervals along the width of the side walls 7, for disposal within the upper compartment are ribs 9 that provide supports for slidably receiving racks or trays, as will be apparent and additional ribs may be formed on the side walls for disposal in the lower compartment for supporting a pan. The side portions of the flanges 4 are recessed from their rear edges as at 10 to receive the forward ends of the ribs, as best shown in Figure 2.

The rear edge of the body section is outturned to provide a relatively narrow marginal flange 11 disposed at right angles to the walls 6 and 7 and the rear section 3 is rearwardly bulged in hollow formation to provide a flat rear portion 12 for the major portion of its area and which merges into a rounded marginal portion 13, the latter being outturned about the edge thereof to provide a relatively narrow flange 14 of the same width as that of the flange 11 and is welded thereto as at 15, with the inner faces of the rounded portion 12 and the walls 6 and 7 flush with each other, as clearly shown in Figures 2 and 5.

After the sections are welded together as shown and described, the entire inner surface of the assembled unit is coated with porcelain or other suitable material that fills the seams at the juncture of the sections with each other, thus eliminating cracks and crevices for the accumulation of dirt and greases, and it will be obvious that such feature coupled with the rounded configuration of the sections render our oven easy to clean and maintain in a sanitary condition. It

will be further obvious that the welding feature eliminates any possibility of the joints becoming open to allow for the escape of heat.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What we claim is:

1. A cabinet comprising a front section having door openings therein, inwardly directed marginal flanges about all edges of the door openings and having rounded corners, a body section including an upper flat wall and side walls integral with the upper wall and merging therein in rounded formation, said body section having its front edge welded to certain of the flanges of the door openings in overlapped engagement therewith, spaced ribs formed on and extending along the width of the side walls and providing supports for slidably receiving racks or the like, certain of the flanges being recessed and having the forward ends of the ribs mounted in the recesses, a rear section rearwardly bulged to provide a flat rear portion and a rounded marginal portion, outwardly directed flanges about the

rear edge of the body section and the edge of said rounded marginal portion, and the latter flanges being welded to each other to provide a flush seam at the juncture of the inner faces of the body and rear sections.

2. A cabinet comprising a front section having door openings therein, marginal flanges about all edges of the door openings and having rounded corners, a body section including an upper flat wall and side walls integral with the upper wall and merging therein in rounded formation, said body section having its front edge welded to certain of the flanges of the door openings in overlapped engagement therewith, rack receiving ribs formed on and extending along the width of the side walls, a rear section including a flat rear portion and a rounded marginal portion, outwardly directed flanges about the rear edge of the body section and the edge of said rounded marginal portion, the latter flanges being welded to each other to provide a flush seam at the juncture of the inner faces of the body and rear sections, and the inner faces of the welded sections being adapted to be coated with a finishing material that fills the seams between the sections to provide a uniform smooth interior surface.

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