M. HIMMELFARB.

TRAY.

APPLICATION FILED JAN. 18, 1922.

1,436,256.

Patented Nov. 21, 1922.

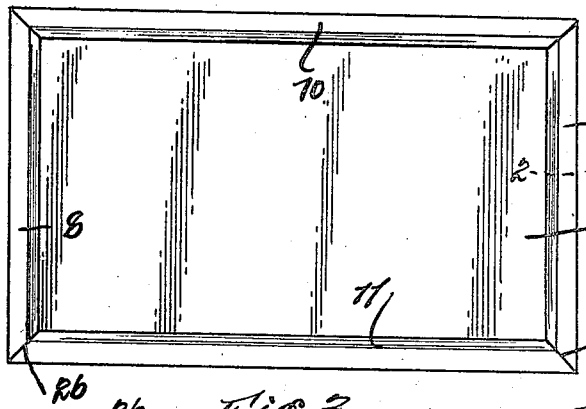


Fig. 1.

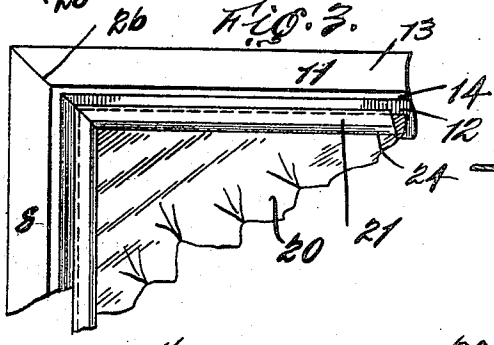


Fig. 3.

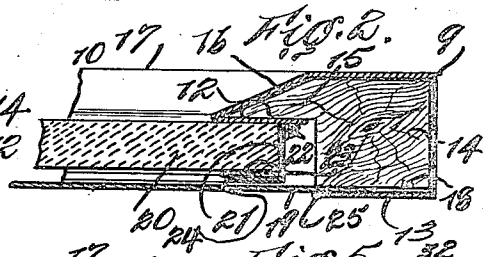


Fig. 2.

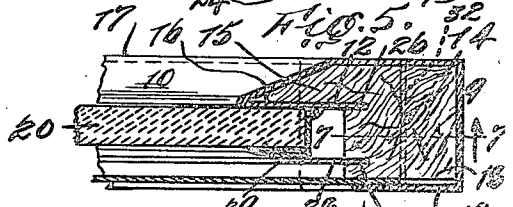


Fig. 5.

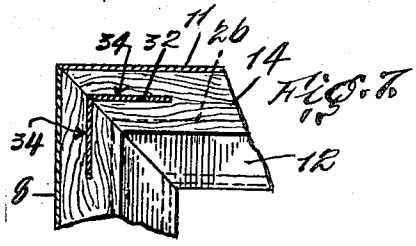


Fig. 7.

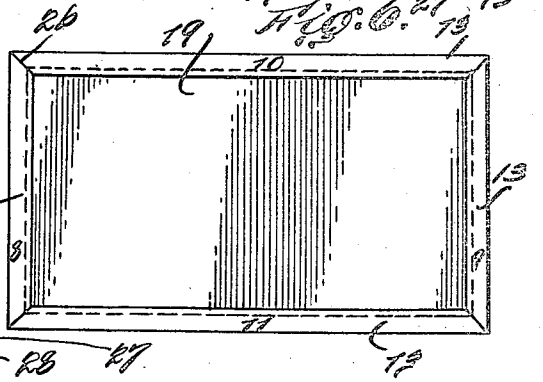


Fig. 6.

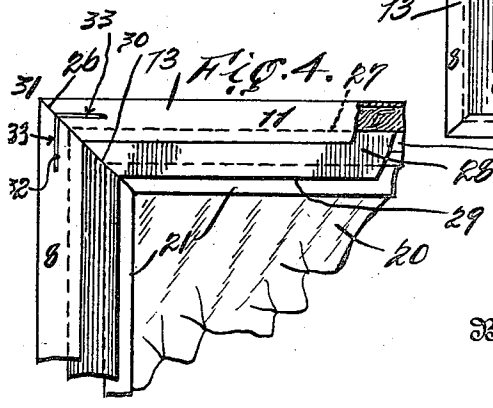


Fig. 4.

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Patented Nov. 21, 1922. 1,436,256

UNITED STATES PATENT OFFICE.

MAX HIMMELFARB, OF BROOKLYN, NEW YORK.

TRAY.

Application filed January 18, 1922. Serial No. 530,067.

To all whom it may concern:

Be it known that I, MAX HIMMELFARB, a resident of Brooklyn, Kings County, State of New York, and a citizen of the United States of America, have invented certain new and useful Improvements in Trays, of which the following is a specification.

This invention relates to improvements in trays, the main object being to provide a leak-proof tray or a tray through which water or other liquids spilled upon the top surface thereof will not leak through onto the support therefor. It frequently happens that highly polished tables are marred by liquid which leaks through a tray placed thereon, or expensive linen rendered wet and unsightly thereby. By means of my improved tray construction, I produce a tray through which liquid cannot pass, as I eliminate open joints or connections.

I will now describe my invention in detail, the novel features of which I will point out in the appended claims, reference being had to the accompanying drawing wherein:—

Fig. 1 is a top plan view of a tray embodying my improvements;

Fig. 2 is an enlarged sectional view, the section being taken on line 2—2 in Fig. 1;

Fig. 3 is a fragmentary bottom plan view of the tray, the bottom plate being omitted;

Fig. 4 is a fragmentary bottom plan view of a modified form of my invention, the bottom plate therefor being omitted;

Fig. 5 is a sectional view of the modified form of my invention corresponding to Fig. 2;

Fig. 6 is a bottom plan view of a tray made in accordance with my invention; and

Fig. 7 is a fragmentary sectional view, the section being taken on a line 7—7 in Fig. 5.

To construct my improved leak proof tray, I utilize channeled side and end frame members 8, 9, 10 and 11, having inwardly projecting flanges 12 and 13, there being a gap between the upper flange 12 and lower or bottom flange 13. Each channel member carries a filler 14 of wood or other suitable material to render the sides and ends fit to receive screws or threaded members of posts, handles, etc., which are not herein illustrated. It will be seen that each filler 14 is L-shaped or under cut to provide a lip 15 which is inserted between flange 12 and top member 16 of each side and end member of the tray, which in this instance is sloping or angularly disposed relative to the top surface 17 of the tray. The bottm flange 13 of each side and end member overlies the bottom surface 18 of each filler, the bottom plate 19 of the structure being slipped between each bottom flange 13 and adjacent surface 18 of the filler 14. To secure the glass plate 20 in position, I place same against the flange 12 and apply an angle strip 21 thereto, one leg of which is soldered to flange 12, as indicated by 22. The lower flange of the angle strip is bent inwardly as at 24 to produce yieldability so that the edge thereof can be pressed firmly against the glass plate 20. Between plate 20 and lower flange of the angle strip 21, I apply a water-proof cement and gasket indicated by 23. The bottom plate 19 will be placed in position by slipping same under flanges 13 of the side and end members and then soldered thereto, as indicated by 25. It will be apparent that water cannot leak through the connections of the tray members, as they will all be soldered, including the connections 26 at the meeting ends of the side and end members 8, 9, 10 and 11. By means of my improved construction, I eliminate padding between the glass plate 20 and bottom plate 19.

In the modified form, indicated in Figs. 4, 5 and 7, the filler 14 will be provided with a plurality of longitudinally disposed slots 26 and 27, the flange 12 of each side and end member being inserted into slot 26, while slot 27 receives one edge of a flat strip 28. The other edge of strip 28 is soldered to the angle strip 21, as at 29, Fig. 4. The meeting edges 30 of the strip 28 are soldered together. The strips 28 are extra preventatives to stop leakage. To prevent liquid from seeping through the joints at the corners 31 of the tray, I provide angle-plates 32 which pass through slots 33 in the side and end members 8, 9, 10 and 11 and also through slots 34 in the fillers 14 (see Figs. 4 and 7). The angle plates 32 will be soldered to the end and side members 8, 9, 10 and 11.

What I desire to secure by Letters Patent is:—

1. In a tray, channeled end and side frame-members connected at the ends thereof, each member having an extension projecting inwardly in parallelism with the top surface of the tray, a glass plate having the

surface along its upper edge in contact with said extension, and angle strips applied to the edges of said plate, one member of each strip being soldered to the extension of the adjacent frame member, the other member overlapping the bottom edge of the glass plate, the member of the angle strip which overlaps the bottom edge of the glass plate being bent toward the plate to provide a yieldable edge, the meeting ends of the angle strips being soldered together.

2. In a tray, channeled end and side frame members connected at the ends thereof, each member having an extension projecting inwardly in parallelism with the top surface of the tray, a glass plate having the surface along its upper edge in contact with said extension, angle strips applied to the edges of said plate, one member of each strip being soldered to the extension of the adjacent frame member, the other member overlapping the bottom edge of the glass plate, the member of the angle strip which overlaps the bottom edge of the glass plate being bent toward the plate to provide a yieldable edge, the meeting ends of the angle strips being soldered together, and a layer of waterproof cement applied to the plate at the point where the overlapping member of the angle strip contacts with said plate.

3. In a tray, channeled end and side frame members connected at the ends thereof, each member having an extension projecting inwardly in parallelism with the top surface of the tray, a glass plate having the surface along its upper edge in contact with said extension, angle strips applied to the edges of said plate, one member of each strip being soldered to the extension of the adjacent frame member, the other member overlapping the bottom edge of the glass plate the member of the angle strip which overlaps the bottom edge of the glass plate being bent toward the plate to provide a yieldable edge, the meeting ends of the angle strips being soldered together, a filler for said channeled frame members, and a bottom plate having its edges inserted between said fillers and the adjacent bottom flange of the frame members.

4. In a tray, channeled side and end frame members, an extending lip carried by each frame member, said lip including a flange extending inwardly into the channel in parallelism with the top surface of its frame member, a bottom flange carried by each frame member disposed in parallelism with the flange extending from said lip, a glass plate supported by the flange on said lip, angle strips applied to the edges of the plate, one member of each strip being soldered to the flange on said lip, the other member overlapping the bottom edge of the plate, a filler for said frame members, and a bottom plate having its edges located between each filler and the adjacent bottom flange of each frame member.

5. In a tray, channeled side and end frame members, an extending lip carried by each frame member, said lip including a flange extending inwardly into the channel in parallelism with the top surface of its frame member, a bottom flange carried by each frame member disposed in parallelism with the flange extending from said lip, a filler for each frame member having two parallel slots longitudinally thereof, the flange on said lip being inserted into one of said slots, a glass plate supported by the flange on said lip, angle strips applied to the edges of the plate, one member of each strip being soldered to the flange on said lip, the other member overlapping the bottom of the plate, a flat strip soldered along one of its edges to each side and end angle strip, the other edge of each strip being inserted in the second slot carried by each filler, and an angle plate located at each corner of the tray passing through said frame members, and the fillers retained thereby.

MAX HIMMELFARB.