ABSTRACT OF THE DISCLOSURE

A recessed end panel formed of a single sheet of metal includes a boxed-in front post and a channel shaped post. Drawer slide carriers are secured to the inside surface of the panel. The panel is provided with flanges for the connection of back, top and bottom panels thereto to form a rigid sheet metal cabinet.

One object of the invention is to provide a cabinet construction of sheet metal in which a recessed end panel provides a convenient anchorage for drawer slide carriers and at the same time corner posts for the cabinet so that, with the addition of back, top and bottom panels of sheet metal, a reinforced and rigid sheet metal cabinet results which is not subject to twisting strains that interfere with the action of drawers in the cabinet, which had a tendency to bind in prior art sheet metal cabinet constructions.

Another object is to provide reinforcing corner post elements of inwardly opening channel shape with a back panel secured to the outer flange of the back post and the outer flange of the front post provided with a further flange projecting toward the central panel to provide a boxed-in construction, the forward ends of the drawer slide carriers being secured to this further flange also to further reinforce the structure.

Still another object is to provide a handle bar spanning the recess between the corner posts and having its ends secured to the inner flanges of the posts.

A further object is to provide a recessed end panel for a cabinet in which a peg board may be mounted, and which may be provided with a hinged door to normally enclose the recess and the peg board.

Still a further object is to provide a cabinet having top and bottom panels associated with the recessed end panel, the upper and lower ends of the recess panel having intrumated flanges to which the ends of the top and bottom panels are secured.

An additional object is to provide channel shaped filler strips of sheet metal for the upper and lower ends of the recessed panel structure and located in the recess thereof to further reinforce the end panel against twisting strains that would otherwise cause drawer binding difficulties.

With these and other objects in view, my invention consists in the construction, arrangement and combination of the various parts of my recessed end cabinet construction whereby the objects above contemplated are attained, as hereinafter more fully set forth, pointed out in my claims and illustrated in details on the accompanying drawings wherein:

FIG. 1 is a perspective view of a recessed cabinet construction embodying my invention and showing drawers therein in part way out, portions of the drawers being broken away to show drawer slide carriers secured to the rear end panel;

FIG. 2 is a similar perspective view with the drawers closed and a peg board mounted in the recessed end together with a door for normally closing in the recessed end;

FIG. 3 is an enlarged vertical sectional view on the line 3—3 of FIG. 1;

FIG. 4 is a horizontal sectional view on the line 4—4 of FIG. 3 and

FIG. 5 is a perspective view of the upper end of one of the recessed ends used in my cabinet construction.

On the accompanying drawings I have used the reference numeral 10 to indicate a recessed panel of sheet metal which, together with a pair of inner flanges 12, webs 14 and outer flanges 16 and 17, provide a recessed panel having a pair of channel shaped corner posts, the total device constituting a recessed end for a cabinet. The upper and lower ends of the recessed panel 10 are provided with intrumated flanges 18 and 20 respectively.

Stationary drawer slide carriers 22 are secured to the inner surface of the panel 10 as shown in FIGS. 1, 3 and 4. The flange 17 has a further flange 44 formed thereon as shown in FIG. 4 to form a boxed-in front corner post, and the front ends of the drawer slides 22 are secured to the flange 44. The manner of securement may be by spot welding or the like.

The cabinet construction disclosed further includes a back panel 19 of sheet metal secured as by spot welding to the flange 16 as shown in FIG. 4. It further includes top and bottom panels 36 and 38 secured as by spot welding to the flanges 18 and 20 as shown in FIG. 3.

The recessed panel 10 and the corner posts identified by the reference numerals 12, 14, 16, 17 and 44 are formed into a rectangular end frame by the further addition of a channel shaped upper filler strip 40 and a channel shaped filler strip 42 formed of sheet metal and suitably welded in position whereby a rigid frame results for each end of the cabinet construction. These frames, together with the panels 19, 36 and 38, provide an enclosure for drawers 25, 28a and 28b, and if desired, a storage space indicated at 29 in FIG. 1 which may be open as shown or provided with a closure panel 31 such as shown in FIG. 2.

The drawers may be provided with guides 26 opposite the stationary drawer slide carriers 22 which are connected together by intermediate slides 24 in a well known manner to permit maximum pull-out of the drawers with a minimum of binding action in the drawer slide assembly.

Within the recess in the end of the panel 10, handle bars 30 of hollow sheet metal construction or the like may be provided, the recess permitting grasping thereof without any portion of the handle bars projecting beyond the ends of the cabinet. Also, as shown in FIG. 2 a peg board 32 may be secured to one or both recessed panels 10 for accommodating flat tools, extension cords, saw blades and the like, and if desired, may be normally enclosed by a hinged door 34.

The bottom panel 38 and the end panels may be further rigidified by a channel shaped reinforcing bar 48 at the front of the cabinet. A central shelf 46 may also be provided to tie the end panels together.

From the foregoing specification it will be obvious that I have provided a recessed end cabinet construction suitable for formation from sheet metal, the recessed end construction being such as to provide a frame having the rigidity of channel shape for both the corner posts and the filler strips 40 and 42. The panel portion 10 provides a convenient surface for mounting the drawer slide carriers 22, and their forward ends are further supported by the vertical flange 44 of the recessed end panel. The cross sectional shapes involved in the end panel and the filler strips provide a rigid end frame construction which is further rigidified by the connection of the drawer slides 22 thereto. The construction disclosed I have found to have great structural advantages such as the required rigidity to prevent binding action of drawers when pulled.
out yet with a minimum of sheet metal and accordingly weight involved in the construction of the cabinet. Conventional supports for slide carriers are eliminated without sacrifice of strength, and smooth drawer action is had. Prior slide carrier supports were prone to flex and cause drawers to bind.

Some changes may be made in the construction and arrangement of the parts of my recessed end cabinet construction without departing from the real spirit and purpose of my invention, and it is my intention to cover by my claims any modified forms of structure or use of mechanical equivalents which may reasonably be included within their scope.

I claim as my invention:

1. In a recessed end cabinet construction, a single sheet of metal constituting an end panel for a cabinet and formed with two side portions and a central portion each of said side portions comprising an inwardly opening channel shaped corner post, and said central portion comprising a panel recessed with respect to the webs of said channel shaped end and spanning the inner edges of the inner flanges of said channel shaped posts, and drawer slide carriers secured to the inner surface of said panel.

2. A recessed end cabinet construction in accordance with claim 1 wherein said cabinet includes a back panel secured to the outer flange of the back channel shaped post, the front channel shaped post having an additional flange extending along the terminal edge of the outer flange thereof and toward said central portion, the front ends of said drawer slide carriers being secured thereto.

3. A recessed end cabinet construction according to claim 1 wherein a handle bar is provided spanning the recess between said posts and having its ends secured to the inner flanges of said posts.

4. A recessed end cabinet construction according to claim 1 wherein a peg board is mounted on the outer surface of said recessed panel.

5. A recessed end cabinet construction according to claim 4 wherein a hinged door is provided to normally enclose said recess and said peg board.

6. A recessed end cabinet construction according to claim 2 wherein said cabinet also includes top and bottom panels, the upper and lower ends of said recessed panel having turned flanges to which the ends of said top and bottom panels are secured.

7. A recessed end cabinet construction according to claim 4 wherein channel shaped filler strips of sheet metal are provided for the upper and lower ends of said end panel and are located in the recess thereof, said filler strips and said corner posts forming a rectangular frame at the end of the cabinet.

8. A recessed end cabinet construction according to claim 6 wherein channel shaped filler strips of sheet metal are provided for the upper and lower ends of said panel, are located in the recess thereof and span the distance between said corner posts.

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