

Feb. 23, 1932.

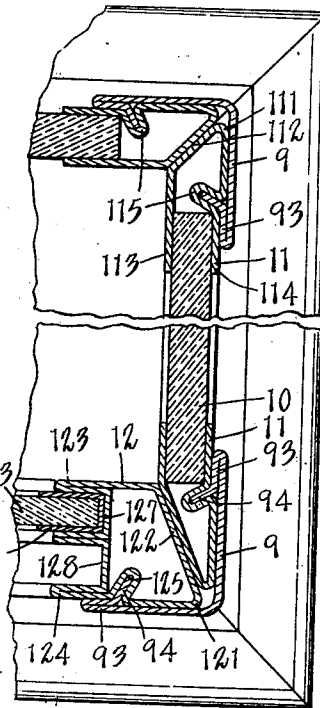
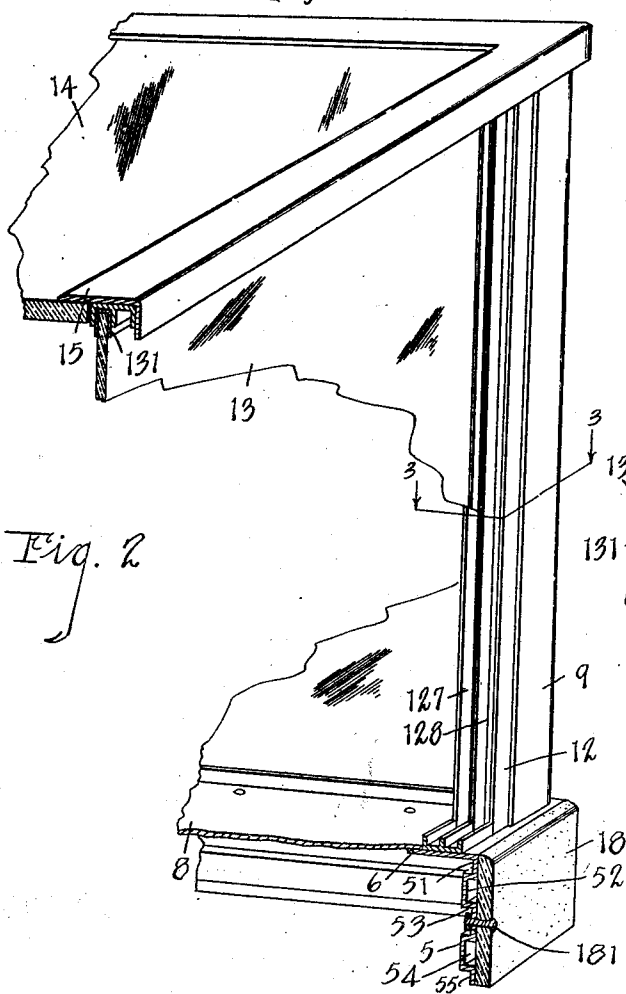
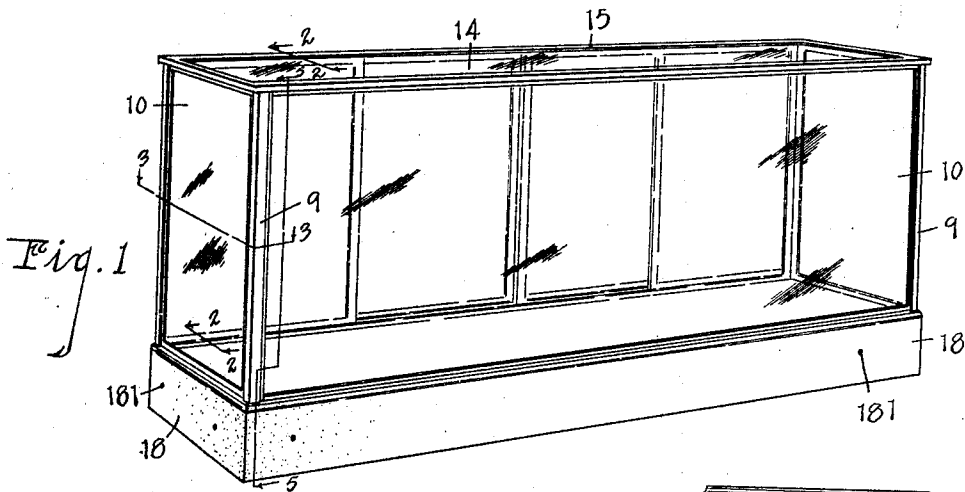
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1,846,485

METAL CABINET

Filed May 24, 1930

3 Sheets-Sheet 1



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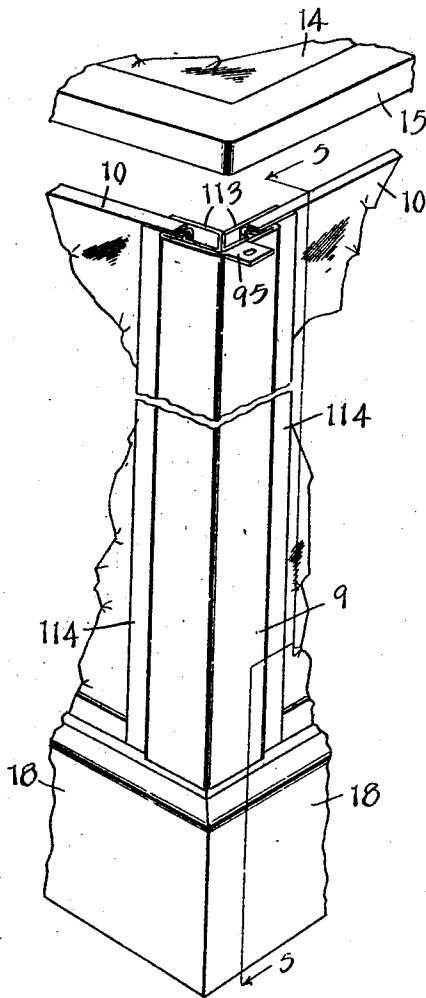


Fig. 4

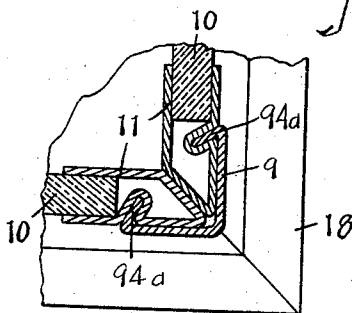


Fig. 9

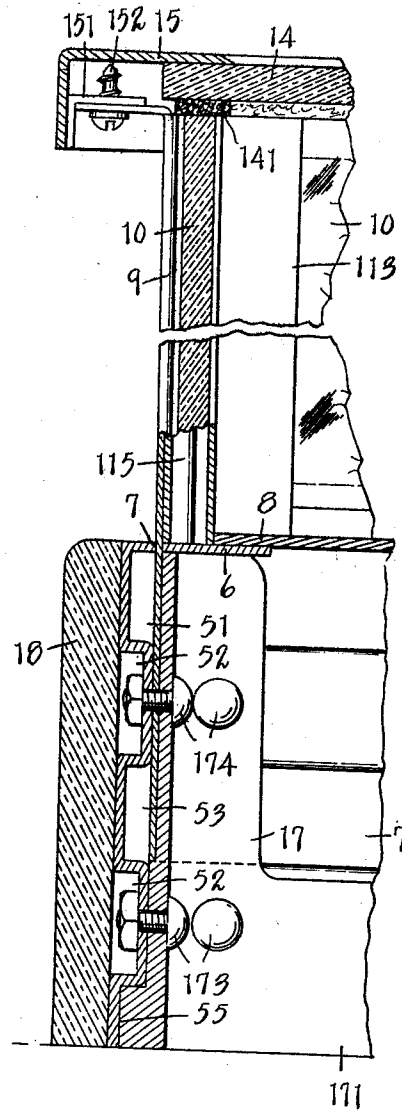


Fig. 5

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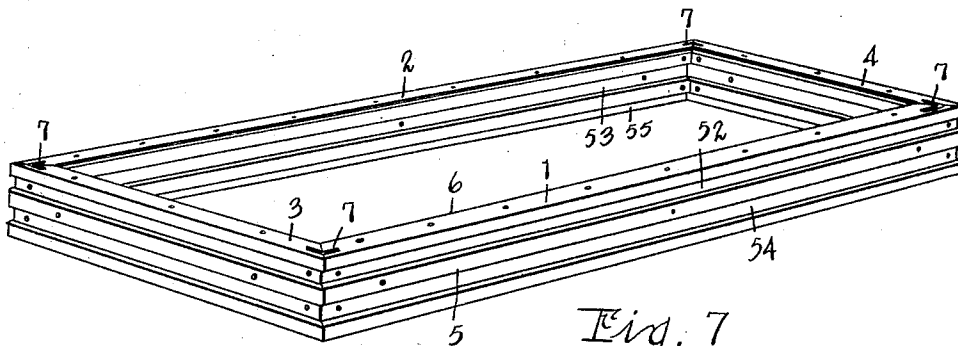


Fig. 7

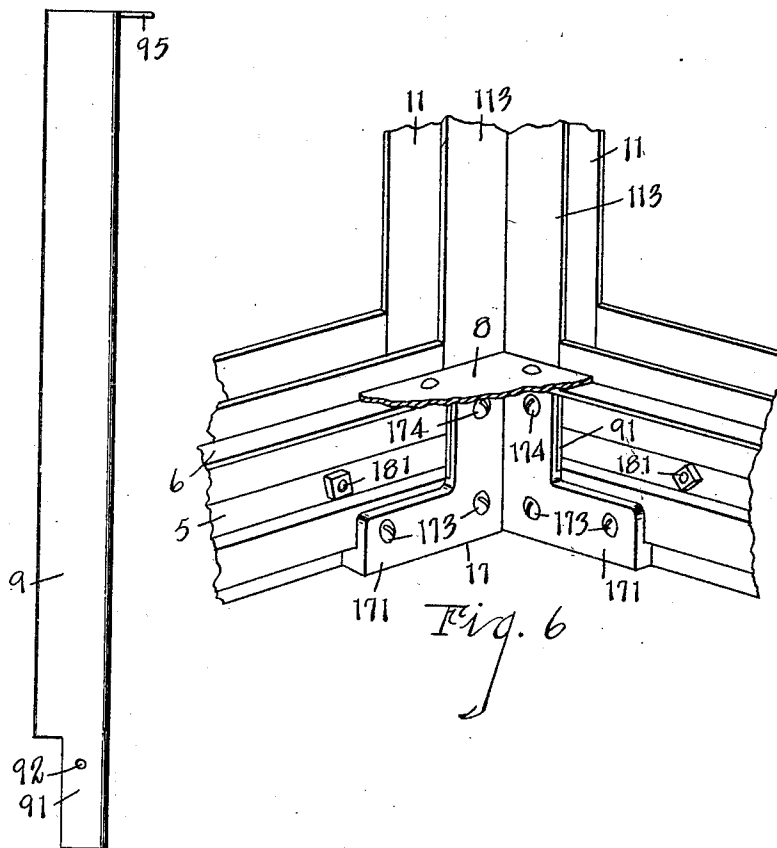


Fig. 6

Fig. 8

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UNITED STATES PATENT OFFICE

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METAL CABINET

Application filed May 24, 1930. Serial No. 455,176.

The objects of the invention are:

First, to improve generally the metal framework of such a cabinet or show case.

Second, to provide an improved metal base structure to which marble, granite, or other finishing material can be readily attached.

Third, to provide an improved knock-down corner structure which is very strong and which at the same time may be readily assembled and disassembled.

Fourth, to provide an improved construction of base corner for such a device.

Fifth, to provide an improved construction of top means and connection for such a device.

Further objects and objects pertaining to details and economies of construction and operation will definitely appear from the detailed description to follow.

Preferred embodiments of my invention are fully illustrated in the accompanying drawings, in which:

Fig. 1 is a perspective view of a glass side and top show case embodying the features of my invention, the usual marble or granite base being shown.

Fig. 2 is an enlarged detail perspective view in a partially broken section of the rear left hand corner of the show case as seen in Fig. 1 with parts taken on section lines 2—2 and 2—2 through top and base, the intermediate parts being broken irregularly, showing details of construction and arrangement, and the position of the side walls, door, door track, floor and the general assembly.

Fig. 3 is an enlarged detail horizontal sectional view through the front and rear corners of the case, taken on a line corresponding to line 3—3 of Fig. 1, the parts being shown in broken section.

Fig. 4 is a detail perspective view of the front left hand corner of my improved show case as seen in Fig. 1 with the top shown in separated relation.

Fig. 5 is an enlarged detail sectional view on a line corresponding to irregular line 5—5 of Figs. 1 and 4, the corner and the marble base slab being shown in broken section.

Fig. 6 is an enlarged detail perspective

view from the interior of the corner of the base.

Fig. 7 is a detail perspective view of the separated metal base frame.

Fig. 8 is a detail elevation view of the front left corner joint and finishing strip detached.

Fig. 9 is a modified form of the corner post.

The parts will be identified by their numerals of reference which are the same in all the views.

A preferred form of my improved show case is illustrated in Fig. 1, the sliding doors being at the back. The case is made up of a metallic base frame formed of the side rails 1, 2 and the end cross rails 3, 4, as clearly seen in Fig. 7. These side rails and ends are made up of a main body portion 5 having a broad inwardly projecting floor flange 6 formed of sheet metal. The vertical body portion 5 is made up of a succession of channels 51, facing inward, 52, facing outward, 53, facing inward, 54 facing outward, and a bottom rabbet channel 55 facing inward. The number of these may be varied according to the height of the base required.

In each corner of this metallic base is an L-shaped slot 7 to receive the shanks of the corner posts. A floor 8, preferably of metal plate is disposed upon and supported by the inner edges of the flanges 6. The corner posts 9 are formed of sheet metal in a general right angle form, each having a downwardly projecting right angle shank 91 adapted to be inserted into one of the said L-shaped slots 7, the shanks 91 being perforated at 92 to receive attaching screws or bolts. The vertical edges of these corner posts are folded upon themselves at 93, 93 and then an engaging flange 94 is bent out from the extreme edge of the metal at an angle of about 45° to the plane of the side. An ear at 95 at the upper end of the post is turned outwardly for attaching the top frame.

In Fig. 8 I show an elevation of one of the corner posts 9. In Fig. 9 I show a modification of a corner post 9 in which the doubled projecting edge is omitted and the oblique engaging flange 94a, corresponding to 94, is formed at the extreme edge of the post.

10 are the plate glass sides and ends. The vertical edges of these plate glass sides are provided with metallic attaching flanges or frame pieces 11. These are folded upon themselves sharply at an angle of 45° at 111, forming a vertical mitre face 112. The edges are extended in parallel relation at 113 and 114 to embrace the vertical edge of the glass plate. In the outer plate there is formed a depression 115 conformed to the vertical flange 94 of the corner post which is engaged by sliding the said corner post down into engagement, on the frame, as seen particularly in Fig. 3.

The vertical parts of the door frame 12 are similarly formed, being folded upon themselves at an appropriate angle at 121, forming the mitre surface 122 with extended groove parts 123, 124 and having the oblique engaging groove 125 for engagement by the flange 94 of the post. Door stop grooves 127 and 128 are formed on the extreme inner edge to receive the doors.

The doors are plate glass 13 provided with suitable sash 131 as seen particularly in Fig. 3.

14 is the glass top plate. This is disposed upon a cushion pad or gasket 141 upon the upper edges of the side plates 10, as seen in cross section in Fig. 5.

Ears 151 are spot welded or otherwise secured to the under flange of the frame 15 in proper position to receive screws 152 for attaching the same to the ears 95 on the sides of the posts.

The lower ends of the posts and the corners of the frame are secured together by corner brackets 17, see Fig. 6, which have lateral arms 171 engaging the bottom rabbet of the end and corner at each side. These brackets 17 are secured in place by screw bolts 173 in the lateral arms and 174 in the upright. The screw bolts 174 attach through perforations 92 in the vertical shanks 91 of the posts 9, thereby anchoring and securing all the parts together.

A simple modified form of the corner post appears in Fig. 9, which, of course, has not the advantage of the doubled edge. The doubled edge is of advantage in that it makes the structure elastic for the purposes of assembling and provides a superior finish.

The usual finishing slabs 18 of marble or granite are retained in place by suitable screw bolts 181 inserted from the outside, the nuts being disposed within the channels, whereby a very strong attachment of the base finishing slab is secured by very inconspicuous means.

My improved structure can be very greatly modified in its details, as is evidenced by an inspection, without departing from my invention.

I believe the specific form possesses great merit and I desire to claim the specific form

and also to claim the invention broadly, as pointed out in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A show case structure, comprising a metallic base frame having an inwardly projecting floor flange and alternate longitudinal channels formed in the body thereof with a bottom rabbet channel formed at the base, the said flange being perforated with angle slots at the corners, a floor plate disposed and supported on said flange, corner posts of general right angle construction having shanks disposed in the said right angle slots, the said posts being formed of sheet metal with their vertical edges each folded inwardly upon itself and with angular engaging flanges projecting inwardly therefrom at an angle to the plane face of the side and with attaching ears at the top, glass plate sides for the said case having sash members embracing each vertical edge comprising metal folded upon itself to form a mitre with recess formed on the outer face corresponding to and receiving the engaging flanges of the said posts and having edges extended into embracing contact with the glass plate sides, a door frame formed similarly to the said sash having stop recesses to receive the edges of sliding doors, sliding doors having sashes to slide within the said recesses, tracks disposed upon the floor flange for the sliding doors, a glass plate top, a flanged frame for said top having attaching ears secured to said flanges, a cushion pad beneath said glass plate top, a corner bracket at each corner having lateral arms with a portion disposed in the rabbet channel at the corner and upright to contact the shanks of said posts, through attaching bolts therefor, and finishing slabs screwed to said base frame.

2. A show case structure, comprising a metallic base frame having an inwardly projecting floor flange and alternate longitudinal channels formed in the body thereof with a bottom rabbet channel formed at the base, the said flange being perforated with angle slots at the corners, a floor plate disposed and supported on said flange, corner posts of general right angle construction having shanks disposed in the said right angle slots, the said posts being formed of sheet metal with their vertical edges each folded inwardly upon itself and with angular engaging flanges projecting inwardly therefrom at an angle to the plane face of the side and having attaching ears at the top, glass plate sides for the said case having sash members embracing each vertical edge comprising metal folded upon itself to form a mitre with recess formed on the outer face corresponding to and receiving the engaging flanges of the said posts and having edges extended into embracing contact with the glass plate sides, a door frame

formed similarly to the said sash having stop recesses to receive the edges of sliding doors, sliding doors having sashes to slide within the said recesses, tracks disposed upon the floor flange for the sliding doors, a corner bracket at each corner having lateral arms with a portion disposed in the rabbet channel at the corner and upright to contact the shanks of said posts, through attaching bolts therefor, and finishing slabs screwed to said base frame.

3. A show case structure, comprising a metallic base frame having an inwardly projecting floor flange and alternate longitudinal channels formed in the body thereof with a bottom rabbet channel formed at the base, the said flange being perforated with angle slots at the corners, a floor plate disposed and supported on said flange, corner posts of general right angle construction having shanks disposed in the said right angle slots, the said posts being formed of sheet metal with their vertical edges each folded inwardly upon itself and with angular engaging flanges projecting inwardly therefrom at an angle to the plane face of the side and having attaching ears at the top, glass plate sides for the said case having sash members embracing each vertical edge comprising metal folded upon itself to form a mitre with recess formed on the outer face corresponding to and receiving the engaging flanges of the said posts and having edges extended into embracing contact with the glass plate sides, a corner bracket at each corner having lateral arms with a portion disposed in the rabbet channel at the corner and upright to contact the shanks of said posts, through attaching bolts therefor, and finishing slabs screwed to said base frame.

4. A show case structure, comprising a metallic base frame having an inwardly projecting floor flange and alternate longitudinal channels formed in the body thereof with a bottom rabbet channel formed at the base, the said flange being perforated with angle slots at the corners, a floor plate disposed and supported on said flange, corner posts of general right angle construction having shanks disposed in the said right angle slots, the said posts being formed of sheet metal with their vertical edges each folded inwardly upon itself and with angular engaging flanges projecting inwardly therefrom at an angle to the plane face of the side and having attaching ears at the top, glass plate sides for the said case having sash members embracing each vertical edge comprising metal folded upon itself to form a mitre with recess formed on the outer face corresponding to and receiving the engaging flanges of the said posts and having edges extended into embracing contact with the glass plate sides, and finishing slabs screwed to said base frame.

5. A show case structure, comprising a metallic base frame having an inwardly projecting floor flange and alternate longitudinal channels formed in the body thereof with a bottom rabbet channel formed at the base, the said flange being perforated with angle slots at the corners, corner posts of general right angle construction having shanks disposed in the said right angle slots, the said posts being formed of sheet metal with their vertical edges each folded inwardly upon itself and with angular engaging flanges projecting inwardly therefrom at an angle to the plane face of the side and having attaching ears at the top, glass plate sides for the said case having sash members embracing each vertical edge comprising metal folded upon itself to form a mitre with recess formed on the outer face corresponding to and receiving the engaging flanges of the said posts and having edges extended into embracing contact with the glass plate sides, a door frame formed similarly to the said sash having stop recesses to receive the edges of sliding doors, sliding doors having sashes to slide within the said recesses, tracks disposed upon the floor flange for the sliding doors, a glass plate top, a flanged frame for said top having attaching ears secured to said flanges, a cushion pad beneath said glass plate top, a corner bracket at each corner having lateral arms with a portion disposed in the rabbet channel at the corner and upright to contact the shanks of said posts, through attaching bolts therefor, and finishing slabs screwed to said base frame.

6. A show case structure, comprising a metallic base frame having an inwardly projecting floor flange and alternate longitudinal channels formed in the body thereof with a bottom rabbet channel formed at the base, the said flange being perforated with angle slots at the corners, corner posts with shanks fitting said slots, a corner bracket at each corner having lateral arms with a portion disposed in the rabbet channel at the corner and upright to contact the shanks of said posts, through attaching bolts therefor, and finishing slabs screwed to said base frame.

7. A show case structure comprising a suitable base, corner posts of general right angle construction having means for attachment to the said base, the said posts being formed of sheet metal with their vertical edges each folded inwardly upon itself and with angular engaging flanges projecting inwardly therefrom at an angle to the plane of the face of the side, glass plate sides for the said case having sash members embracing each vertical edge comprising metal folded upon itself to form a mitre with a recess formed on the outer face corresponding to and receiving the engaging flanges of said posts and having edges extended into embracing contact with the glass plate sides.

8. A show case structure comprising a suitable base, corner posts of general right angle construction having means for attachment to the said base, the said posts being formed of sheet metal and having angular engaging flanges projecting inwardly therefrom at an angle to the plane of the face of the side or end wall, glass plate sides for the said case having sash members embracing each vertical edge comprising metal folded upon itself to form a mitre with recess formed on the outer face corresponding to and receiving the engaging flanges of said posts and having edges extended into embracing contact with the glass plate sides or ends.

9. A show case structure comprising a metal base frame, corner posts secured thereto having outturned top attaching ears, a glass plate top, a metallic frame embracing the said top having a downturned flange, and attaching ears secured within the said flange for attachment to the ears on said posts.

In witness whereof I have hereunto set my hand.

HAROLD L. HART.