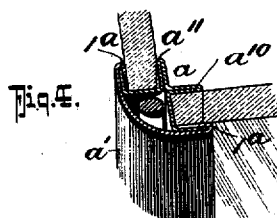
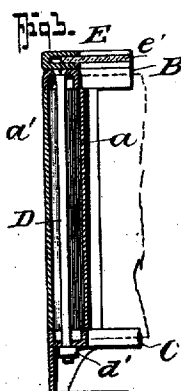
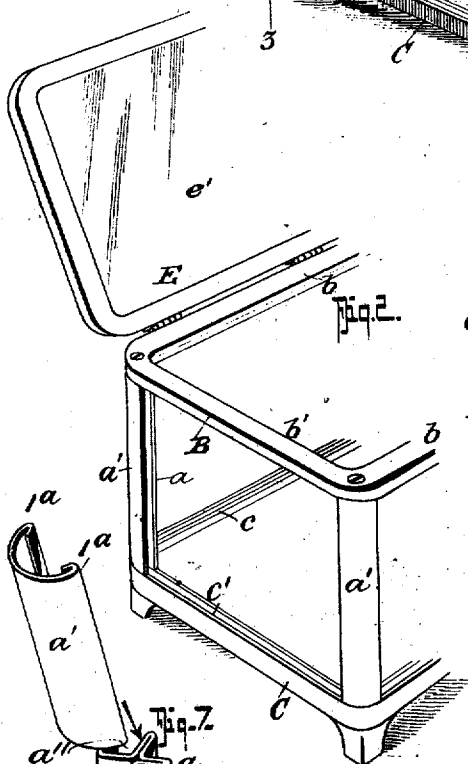
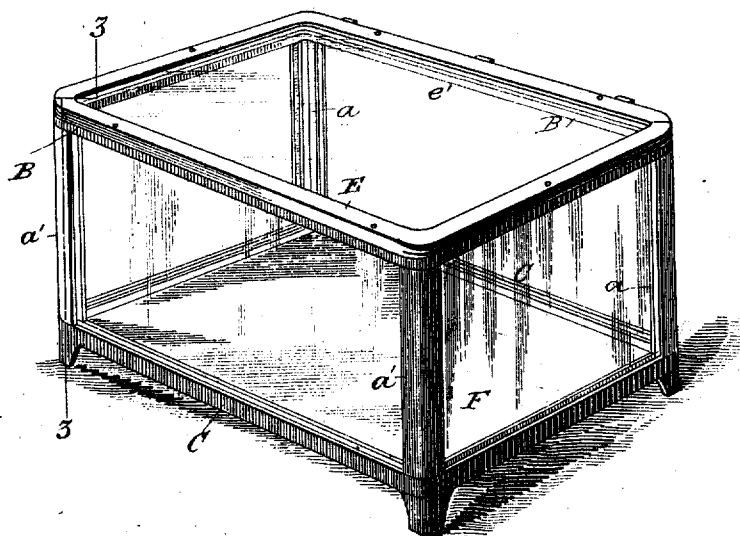
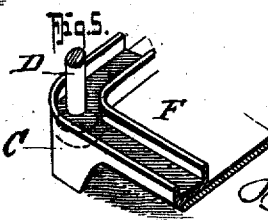
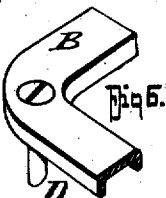


933,287.

Fig 1.



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DANIEL J. CABLE, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO JOHN A. HARPER, OF PITTSBURG, PENNSYLVANIA.

PACKING BOX OR CASE.

933,287.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed December 23, 1908. Serial No. 898,987.

To all whom it may concern:

Be it known that I, DANIEL J. CABLE, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Construction of Packing Box or Case, of which the following is a specification.

My invention, which relates generally to improvements in display or package boxes or casings, more particularly has for its object to provide a simple and peculiar construction of metallic corner members especially designed for conveniently and positively holding the adjacent edges of glass (or other vitreous material,) sides and ends of the box or casing without the necessity of using rivets or drilling the vitreous body of the box or casing, and whereby the several parts that constitute the box or casing are of a simple, economical, strong and durable arrangement.

With other objects in view, my invention consists in certain details of construction and peculiar combination of parts, all of which will be hereinafter fully explained, specifically pointed out in the appended claims and illustrated in the accompanying drawing, in which:—

Figure 1, is a perspective view of a glass box or casing constructed in accordance with my invention. Fig. 2, is a view of one end thereof and showing the cover or top member swung back. Fig. 3, is a vertical section of one corner of the box on the line 3—3 on Fig. 1. Fig. 4, is a horizontal section partly in perspective, of one corner of the box, and showing the preferred form of the corner portion. Fig. 5, is a detail view of one corner of the bottom frame or rail member. Fig. 6, is a detail view of the top frame or rail of the body of the box or casing, and Fig. 7, is a view that illustrates the two parts of one of the end members shown in Fig. 4.

In its practical application, my invention comprehends end rail members that constitute the corners of the box and which are formed of sheet metal bent into such shape in cross section so as to insure a substantial rigidity thereof to withstand lateral strain and to form vertical guideways disposed at such angles to each other whereby to receive the adjacent ends of side and end portions of the box, and more especially designed for receiving the ends of glass,

porcelain or the vitreous material plates, top and bottom rails for seating on the top and bottom ends of the corner rails being provided, the said rails being also formed to provide for the passage there-through of stay bolts, whose ends take through the top and bottom rails and are clamped thereto in such manner as to firmly hold the corner members with the sides and ends of the box in a rigid shape.

In the drawing I have illustrated a number of forms of the corner rails, the preferred form being shown in detail in Figs. 1, 2, 3, 4 and 7 and comprising two members $a-a'$, the inner one a of which is bent (by any suitable means) upon itself to form two channels or guides $a''-a'''$ disposed at angles to each other, the degree of which is dependent on the relative angles of the side and end plates of the box or casing, they being shown in the present case, as at right angles to each other (see Fig. 4). The member a' is of a length sufficient to extend over the outer angle edge of the corner or rail member a and it may be curved to form a round outer edge as shown in Fig. 4 or it may be flat to form an angle edge as shown in Fig. 5, but in either case the said member a' is made of sufficient width so its opposite edges can be bent over to form flanges $1-1'$, see Figs. 7 and 4 to slip over the full edges $a''-a'''$ of the member a as will be clearly understood from the drawings, it being clear that when the part a' is slipped onto part a , the two members $a-a'$ form a strong and rigid metallic corner or rail.

B and C designate the top and bottom frames, each formed $\sqcup$ shape and comprising the side and end members $b-b'$ and $c-c'$ and the said rails B and C are secured on the corner rails by the long screw bolts D that pass through the said plates, and in the preferred form of my invention through the spaces formed between the members $a-a'$ of the corner rails, the lower ends of the said bolts being threaded to receive the nuts d' as clearly shown in Fig. 3.

So far as described, it is apparent the side and end plates of the box are securely held by the corner rails and the latter are firmly secured to the said side and end plates by the screw bolts, thus securing the said side and end plates without the necessity of passing rivets or other similar fastening devices therethrough.

The cover E consists of a metallic frame formed of two members riveted together and between which the glass cover plate e' is held, and the said cover is hinged to the top rail B as clearly shown in Fig. 2.

By forming the upper and lower rails B and C of U shape they fit over the upper and lower edges of the glass plates, and brace the same laterally and hold the plates from rattling and working loose.

The bottom F of the box may be of sheet metal and secured to the under side of the bottom rail in any approved manner.

From the foregoing description, taken in connection with the accompanying drawing, the complete construction and advantages of my invention will be readily apparent.

It will be readily understood that my construction of corner posts or rail clamping means may be easily varied to suit the particular shape of the box or casing or for being utilized for securing the glass plates of show windows without departing from the spirit of my invention or the scope of the appended claims.

Having thus described my invention, what I claim is:

1. A metallic corner piece for holding glass plates and the like, comprising a single metal member bent to form portions for re-

ceiving the ends of the plate, and another metal member that interlocks with the other member and forms an outer protecting wall therefor.

2. A metallic corner piece for holding glass plates and the like, comprising a sheet metal member bent to form portions disposed at right angles to each other for receiving the ends of the glass plates and another sheet metal member interlocked with the other member that extends over the outer faces of the glass receiving portions.

3. The combination with top and bottom frames, U shaped in cross-section to fit over the top and bottom edges of glass plates and the like, corner pieces, each formed of metal members bent up to form vertical grooves relatively at right angles to each other, and adapted to receive the ends of the plates; an outer projecting metal member that fits over the outer or angle edge of the plate receiving member and interlocks therewith, and a screw bolt that passes through the top frame down between the grooved metal member, and the outer projecting member and the screw bolt engaging clamp nut.

DANIEL J. CABLE.

Witnesses:

GEO. D. TINDLE,
R. R. HAMMOND.