July 26, 1949. L. E. VOGT 2,477,530

BOX

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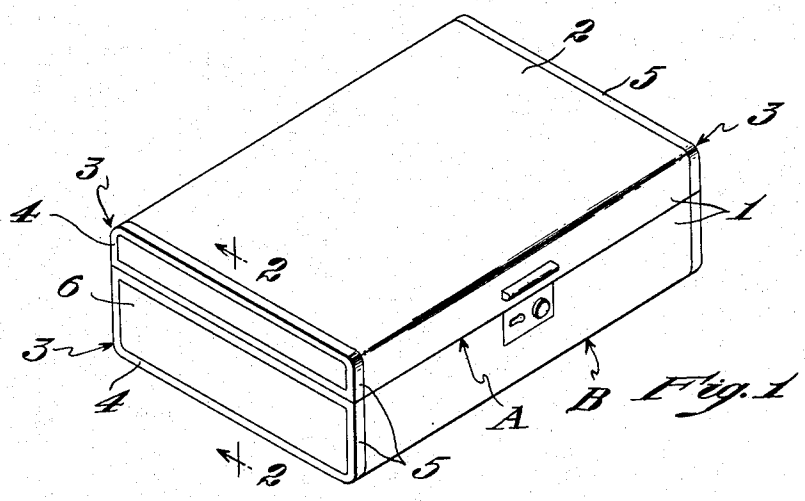


Fig. 1

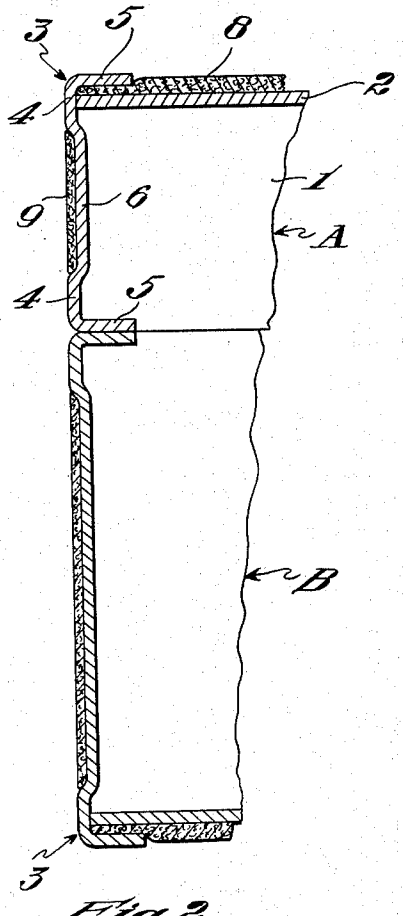


Fig. 2

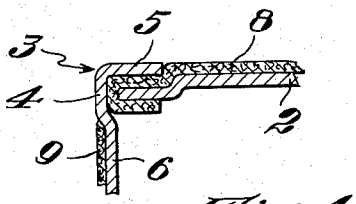


Fig. 4

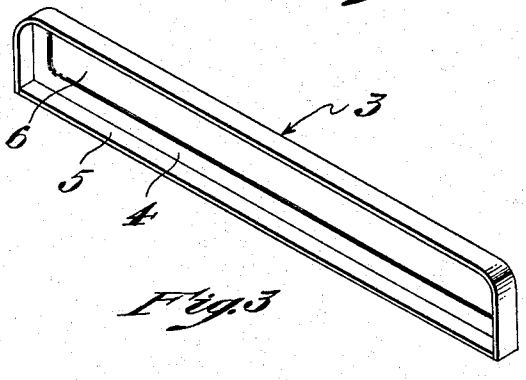


Fig. 3

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2,477,530

BOX

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4 Claims. (Cl. 229—8)

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This invention relates to boxes of various sizes, shapes and materials having an external strengthening frame or members at the corners and along certain edges. It is customary to make the cover or bottom part of such boxes by forming side, end and transverse panels of wood, cardboard or the like and connecting the panels by means of metal angles which cover only the margins of the panels and protect the edges and corners of the box. Commonly the panels are covered with decorative sheet material. Such a construction is objectionable in that it complicates the manufacture of the box by requiring that the decorative covering be folded over the side and end panels and by including steps necessary to attach the end panels to the protective frame.

Objects of the present invention are to provide a box which has increased strength with a greatly simplified method of manufacture, which is economical to produce and which affords the pleasing appearance of a box finished or covered on its side, end and transverse walls with a continuous or uniform sheet of decorative material under an edge binding.

In one aspect the invention involves a box comprising side walls interconnected by a transverse wall, a plate having a peripheral flange which telescopes over and is attached to the ends of the walls and having its central portion depressed in the same direction as the flange, and a sheet of material like the exterior of the walls covering the depressed portion of the plate. The box gains strength from the end plate and, whether the sheet of material is a veneer of the same substance and with the same finish as the walls, or is a strip of the same material which covers the walls, the appearance given is that of a box covered on the side, end and transverse walls with a continuous decorative surface.

The side walls may have flat surfaces perpendicular to the flat surface of the connecting transverse wall or they may have curved surfaces tangent to the surface of the transverse wall. If the transverse wall has a curved surface it may appear to be a continuation of the side walls.

In another aspect the box is comprised of two opposed hinged parts, each part having the structure described above.

For the purpose of illustration, a typical embodiment of the invention is shown in the accompanying drawings in which:

Fig. 1 is an isometric view of the box;

Fig. 2 is a section on line 2—2 of Fig. 1;

Fig. 3 is an isometric view of the end plate; and

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Fig. 4 is a section like Fig. 2 showing a modified construction.

In the embodiment of the invention illustrated, the box comprises a cover A and a bottom B each having side walls 1, a transverse wall 2 and end plates 3.

The side and transverse walls are covered with a sheet 8 of decorative material such as leather, fabric or plastic. It may be desirable but it is not necessary that the covering adhere to the walls. The trough-like structure formed by the walls may be pre-assembled with the aid of internal bracing members although such a construction is not essential to my invention.

The plate 3, shown in Fig. 3, forms an end wall of the box. A flange 5, at an angle to and approximately of the same uniform width as the marginal surface 4 of the plate extends around the periphery of the plate. The central portion 6 of the plate bounded by the marginal surface 4 is depressed in the same direction as the flange 5 to a depth approximately equal to the thickness of the sheet 6 mounted therein. The sheet 9 is of the same material as the sheet 8 used to cover the walls 1 and 2 and is adhesively attached so as to cover the depressed portion.

As shown in Fig. 2 the flanges 5 of the plate 3 telescope over the edges of the ends of the walls 1 and 2 and the sheet material 8 covering the walls. The flanges may be attached to the walls 1 and 2 adhesively, by means of fasteners or interlocking extensions of the walls and flanges, or the walls may be expanded against the flanges by internal braces. A marginal area of the walls may be depressed as shown in Fig. 4 to accommodate the flanges so that the outer surfaces of the flanges and sheet material are flush. Whether the walls are so depressed or are flat as in Fig. 2 the margin of the sheet material may be folded over their edges as shown in Fig. 4.

The combination of the flanged plate 3 and the walls 1 and 2 affords a stronger construction than the conventional edge bound box, yet the marginal surface 4 and the flange 5 give the same decorative appearance as an edge binding while greatly simplifying and decreasing the cost of manufacture.

It should be understood that the present disclosure is for the purpose of illustration only and that this invention includes all modifications and equivalents which fall within the scope of the appended claims.

I claim:

1. A box comprising side walls, a transverse wall interconnecting the side walls, a plate attached

to the ends of said walls, said plate having a peripheral flange extending around its entire periphery, the flange telescoping over said walls along three edges of the plate, said plate also having a central portion depressed in the same direction as the flange to form a recess with an offset shoulder extending around the entire periphery of the recess, and a sheet of material like the exterior of said side walls mounted in said recess with its edge adjacent said shoulder throughout its entire periphery, said plate having a marginal portion about said recess not covered by said sheet, whereby said plate affords a strong rigid construction while the box presents the appearance of having side and end walls of the same material secured at the edges with a binding, and the edge of said sheet is protected by said shoulder throughout its periphery.

2. A box comprising side walls, a transverse wall interconnecting the side walls, decorative sheet material covering said side walls at least, a plate attached to the ends of said walls, said plate having a peripheral flange extending around its entire periphery, the flange telescoping over said walls along three edges of the plate, said plate also having a central portion depressed in the same direction as the flange to form a recess with an offset shoulder extending around the entire periphery of the recess, and a sheet of said material mounted in said recess with its edge adjacent said shoulder throughout its entire periphery, said plate having a marginal portion about said recess not covered by said sheet.

3. A box comprising side walls, a transverse wall interconnecting the side walls, a plate attached to the ends of said walls, said plate having a peripheral flange extending around its entire periphery, the flange telescoping over said walls along three edges of the plate and along the fourth edge of the plate, forming a flat border for the open side of the box, said plate also having a central portion depressed in the same direction as the flange to form a recess with an offset shoulder extending around the entire periphery of the recess, and a sheet of material like the exterior of said side walls covering said depressed portion, the edge of said sheet being adjacent said shoulder throughout its entire periphery, said plate having a marginal portion about said recess not covered by said sheet, whereby said plate affords a strong rigid construction while the box presents the appearance of having side and end walls of the same material secured at the edges with a binding.

4. A box having two opposed hinged parts, each part comprising side walls, a transverse wall interconnecting the side walls, a plate attached to the ends of said walls, said plate having a peripheral flange extending around its entire periphery, the flange telescoping over said walls along three edges of the plate and forming a flat abutment along the fourth edge of the plate to seat on the corresponding abutment of the other part of the box, said plate also having a central portion depressed in the same direction as the flange to form a recess with an offset shoulder extending around the entire periphery of the recess, and a sheet of material like the exterior of said side walls mounted in said recess with its edge adjacent said shoulder throughout its entire periphery, said plate having a marginal portion about said recess not covered by said sheet.

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