Feb. 28, 1950 F. M. J. CURRAN 2,499,299

DRAWER OR LIKE RECEPTACLE

Filed May 29, 1944 2 Sheets-Sheet 1

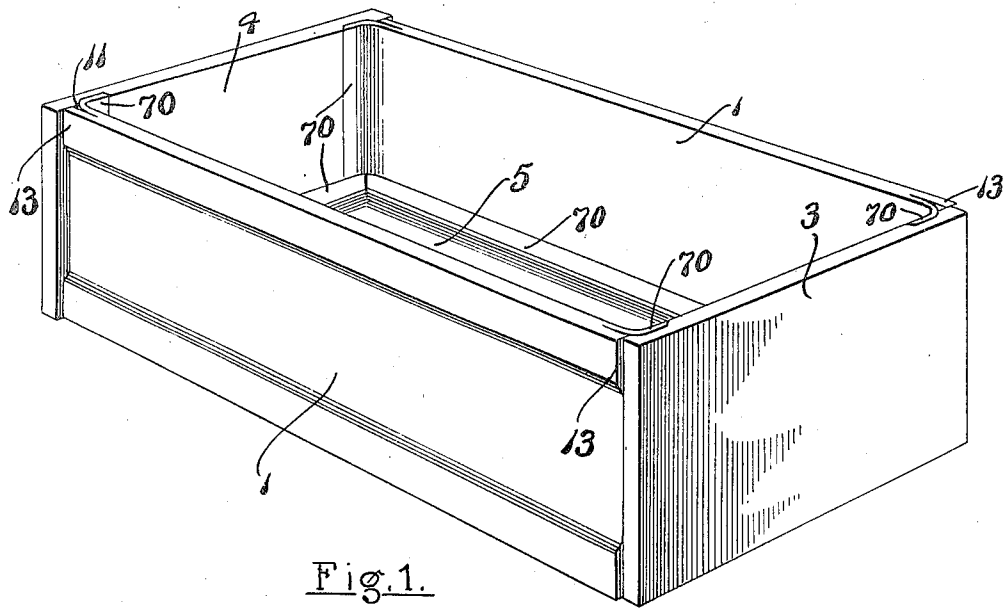


Fig. 1.

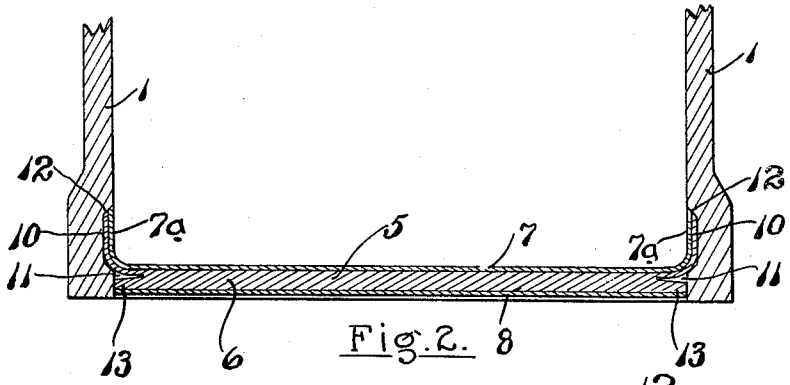


Fig. 2.

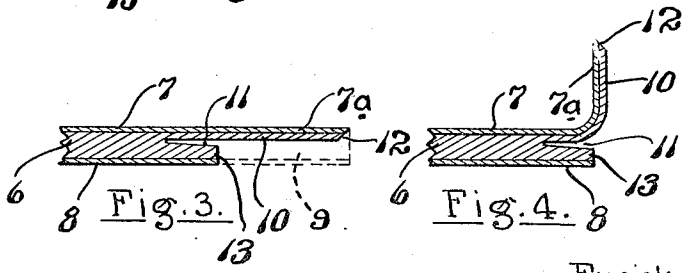


Fig. 3.

Fig. 4.

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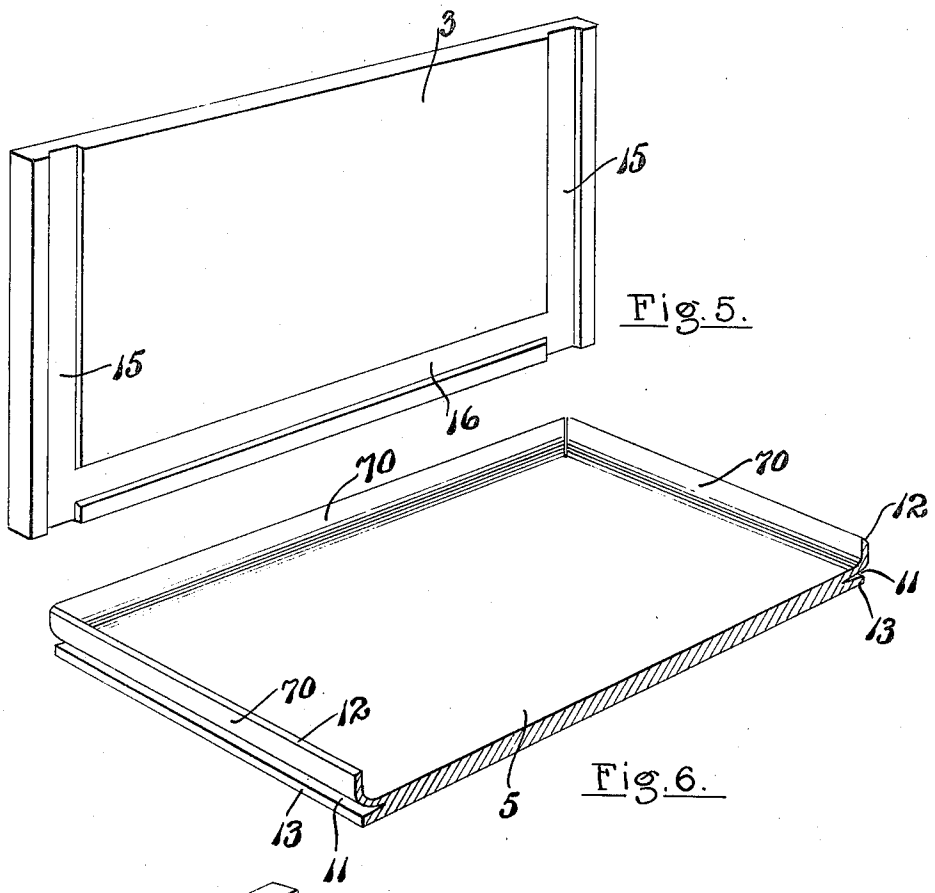


Fig. 5.

Fig. 6.

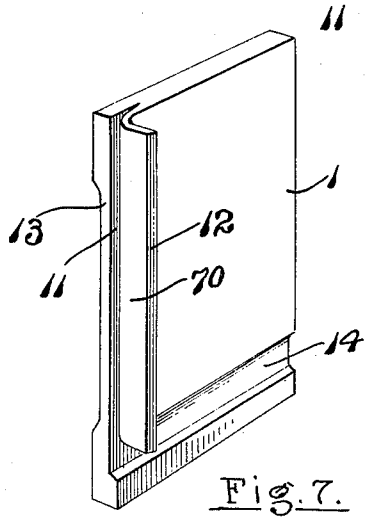


Fig. 7.

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Patented Feb. 28, 1950

2,499,299

UNITED STATES PATENT OFFICE

2,499,299

DRAWER OR LIKE RECEPTACLE

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Application May 29, 1944, Serial No. 537,841

8 Claims. (Cl. 45—7)

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This invention relates to a furniture construction which for illustration purposes is exemplified in a drawer, but is of utility in the same manner in the construction of numerous articles of furniture other than drawers, for example, cases or cabinets, receptacles of various kinds and shapes, wherefore the invention, though it has first been built and embodied in a drawer, is not to be considered in any sense limited thereto.

The objects and purpose of the present invention are to produce a drawer or other furniture article having sides and ends and a bottom, and generally with an open side, in a particularly simple and economical manner and with a utilization of a minimum number of pieces; and to provide a drawer or similar furniture or like construction with inner rounded corners and with the parts securely and normally inseparably connected together with a resultant economy in manufacture, and strength and durability in the article produced. The invention may be understood from the following description taken in connection with the accompanying drawing, in which:

Fig. 1 is a perspective view of a drawer made in accordance with my invention.

Fig. 2 is a fragmentary transverse section through the lower part of the drawer.

Figs. 3 and 4 are fragmentary sections illustrating the manner in which many of the parts are initially fabricated.

Fig. 5 is a perspective view of the inner side of the back or front end of the drawer.

Fig. 6 is a partial perspective and transverse section through the bottom member, and

Fig. 7 is a fragmentary perspective view taken from the inner side of one of the sides of the drawer.

Like reference characters refer to like parts in the different figures of the drawings.

The drawer, as illustrative of one of numerous receptacles of a similar construction, has in common with other drawers two spaced apart vertical sides 1, a rear end 3, a front end 4 and a bottom 5. The bottom is shown made of plywood consisting of an inner core 6 and inside and outside veneer sheets 7 and 8 glued thereto, or the ends 3 and 4 in some cases may be cut from a single board of wood or be built up of pieces glued together.

In the construction at each end of each side 1 and at all edges of the bottom 5, the plywood panels each consisting of the core 6 and the outer veneers 7 and 8 glued thereto, are cut away, the bottom at its under side around all edges and each

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side at each end at its outer side to remove a portion of the material as indicated in dotted lines at 9 in Fig. 3, leaving a thin extended portion 10 of the core 6 glued to the adjacent portion 7a of the veneer sheet 7, and with a slot 11 between the inner portion of the part 10 of the core and continuous projection 13 as shown in Figs. 3 and 4, to the edge of which the other veneer sheet 8 extends. Also the edges of the parts 10 and 7a firmly glued together are cut at an angle to make the beveled edge 12 as shown.

Such extended portions, consisting of the thin integral extension 10 to the core 6 and the part 7a of the veneer glued thereto, are curved and turned at right angles as shown in Fig. 4.

At the inner side of and adjacent the lower edges of the sides 1 a longitudinal shallow groove 14 is cut as shown, and at the inner side and adjacent each vertical edge of the front and back vertical shallow grooves 15 are cut (Fig. 5) with a horizontal groove 16 connecting them, the groove 16 being located a short distance above the edges of the front and back. The grooves 14, 15 and 16 are of such a depth that the composite curved lips, which are given the reference character 70, around the edges of the bottom 5 and the vertical edges of the sides 1 (each of the lips 70 consisting of the two parts 10 and 7a previously described), will seat therein providing flush surfaces at the inner side of the drawer and with the beveled edges 12 seated against a complementary beveled edge of a groove. The inwardly turned portion 70 at each end of each side 1 terminates at its lower end at the upper edge of the groove 14.

The parts may be thus assembled together, as in Fig. 1, and glue joined and bonded, particularly where the surface portions of said inturned lips 70 contact with the adjacent surfaces of the respective grooves 14, 15 and 16. Such gluing may be accomplished by use of a suitable fixture or clamps for the purpose, and any available and suitable type of glue may be used though, preferably, for rapidity of process, the glue used may be a resin glue which sets rapidly under application of pressure and temperature.

The drawer or other similar article constructed as described is made of a minimum of parts, is readily and easily fabricated, is of great strength and rigidity and does not warp and shrink or swell or get out of shape and has fully rounded inner corners. The ends of parts 13 in the bottom extend to and come substantially against the inner sides of the sides 1 and the front and rear ends 3 and 4 of the drawer, below the shal-

low grooves 14 and 16. While such projecting portions 13 at the ends of the sides of the drawer come substantially to or against the inner sides of the front and back of the drawer, as shown, presenting a desirable appearance.

The invention is defined in the appended claims and is to be considered comprehensive of all forms of structure coming within their scope.

I claim:

1. A drawer or similar receptacle having a bottom, the end and side edge portions of which are provided with bent and upwardly turned extensions or lips at the upper side of said bottom, said extensions or lips being an integral part of the bottom and thin compared to the thickness of said bottom, said drawer or receptacle having vertical sides at each of which and at the inner sides thereof similar thin extensions or lips are provided, bent and turned inwardly, said drawer or receptacle including front and rear vertical ends, said bottom, sides and ends being of wood and said lips or extensions on the bottom lying inside of said ends and sides of the drawer or like receptacle and glue bonded thereto adjacent the lower portions of said sides and ends, and the lips or extensions at the ends of said sides extending inwardly toward each other and glue bonded to the ends of the drawer or like receptacle adjacent the vertical edges thereof and from their upper edges downwardly to the lips or extensions on said bottom.

2. The construction as defined in claim 1, said sides and ends of the drawer or like receptacle, adjacent their lower portions, having horizontal grooves at their inner sides into which the extensions or lips on the bottom are received, and said ends adjacent each vertical edge at their inner sides having vertical grooves therein receiving the lips or extensions at the ends of said drawer or like receptacle.

3. A construction as defined in claim 1, said bottom of the drawer or like receptacle being of plywood having a central core with outer and inner veneer sheets glued thereto, said lips or extensions on said bottom and ends including edge portions of the inner veneer sheets and portions of said core.

4. A bottom for a drawer comprising, a rectangular section of plywood including, a central core and upper and lower veneer sheets glue bonded thereto at its opposite sides, said bottom at its upper side at each side edge thereof having rectangular and outwardly extending lips, the thickness of which is the thickness of the upper veneer sheet and a portion of the upper part of the core, said outwardly extending lips being thin compared to the thickness of the bottom and bent upwardly substantially at right angles to said bottom.

5. A construction as defined in claim 4, said end portions of the bottom being similarly formed to provide thin substantially rectangular lips at the upper portions of the ends of the bottom and likewise bent and turned in an upward direction to lie at substantially right angles to said bottom.

6. A receptacle having a bottom, side walls and end walls of wood, said bottom having its upper marginal portion extending beyond its lower portion to provide relatively thin extensions bent in an upward direction and said side walls having their inner end portions extending beyond their outer portions to provide relatively thin extensions at their ends and inner sides bent inwardly, said extensions at the sides of the bottom coming within the side walls and said extensions at the ends of the side walls coming within the end walls, all of said extensions having a permanent glue bonding to the side and end walls against which they are located.

7. A receptacle having a bottom of laminated plywood and a side wall, said bottom having an upper lamination extending beyond the lower lamination to provide an integral relatively thin extension which is turned upwardly and located against and bonded to the inner surface of the side wall.

8. A joint between two panels one of which is laminated plywood, the lamination of said plywood panel of one surface extending beyond the lamination of the other surface providing a relatively thin interval extension which is bent at substantially right angles to its main body and is located against and bonded to a surface of the other panel.

FRANK M. J. CURRAN.

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