June 28, 1938. W. F. BEST ET AL 2,121,944

RECEPTACLE

Filed Aug. 23, 1937

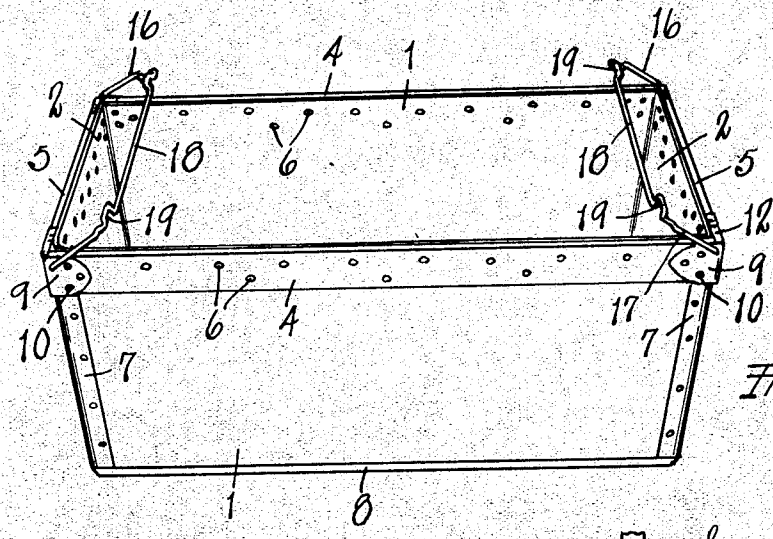


Fig. 1

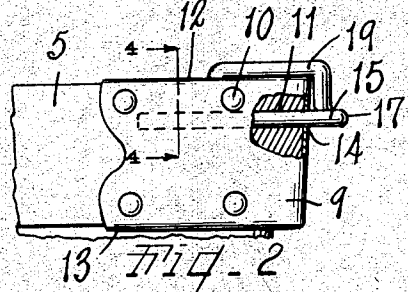


Fig. 2

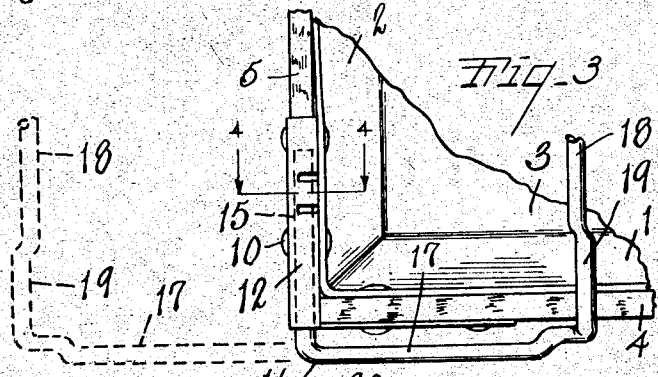


Fig. 3

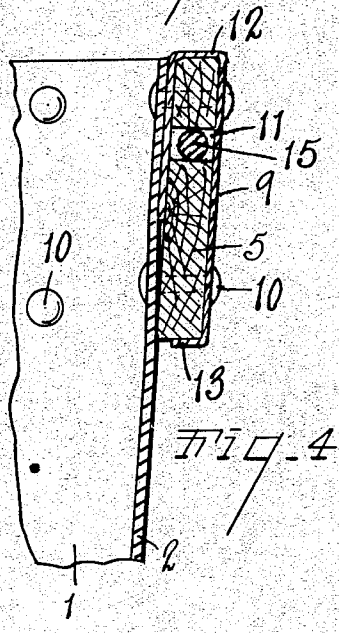


Fig. 4

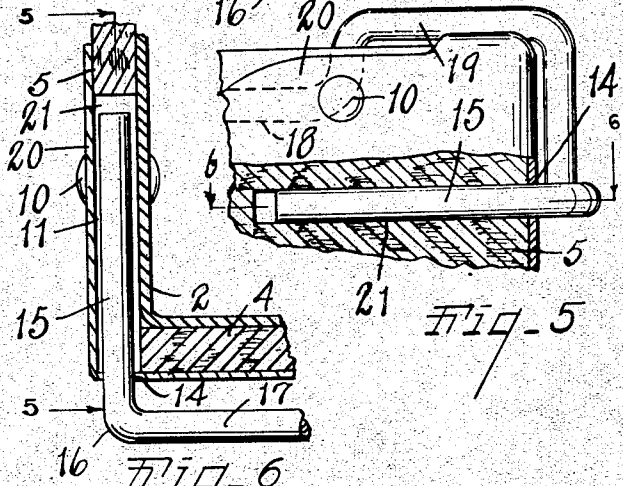


Fig. 5

Fig. 6

Wilson F. Best INVENTORS
William Kremer

BY Earl D. Chappell

ATTORNEYS

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RECEPTACLE

Wilson F. Best and William Kremer, Grand Rapids, Mich.; said Kremer assignor to said Best

Application August 23, 1937, Serial No. 160,407

7 Claims. (Cl. 229—52)

The main objects of this invention are:

First, to provide a box or receptacle which is especially well adapted for use in the delivery of groceries, fruit and the like and for use in factories, bakeries and, in fact, as a general purpose box or receptacle which is light in weight and at the same time very strong and durable.

Second, to provide a box or receptacle having these advantages which is simple and economical both in the matter of material and in assembly.

Further objects pertaining to details and economies of our invention will definitely appear from the description to follow. The invention is defined in the claims.

A receptacle embodying the features of our invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of a box embodying the features of our invention, the stacking bails or handles being shown in lifted position in order to more clearly illustrate the structure thereof.

Fig. 2 is a fragmentary end elevation with parts sectioned and broken away with the stacking bail or handle in stacking position.

Fig. 3 is a fragmentary plan view with the stacking bail or handle shown in stacking position by full lines and in partially collapsed position by dotted lines.

Fig. 4 is an enlarged detail vertical section on line 4—4 of Figs. 2 and 3.

Fig. 5 is a fragmentary end elevation partially in broken section on line 5—5 of Fig. 6.

Fig. 6 is a fragmentary view partially in section on line 6—6 of Fig. 5.

In the preferred embodiment of our invention as illustrated the side walls 1, 1, end walls 2, 2 and bottom 3 are formed of fiberboard. The walls are preferably inclined outwardly or the box is tapered to permit nesting. The rim side and end pieces 4, 4 and 5, 5 are arranged on the outer sides of the walls with their upper edges substantially flush therewith. These rim pieces are fixedly secured to the walls by means of rivets indicated conventionally at 6. In the embodiment illustrated the end walls have overlapping corner flaps 7 secured to the side walls by rivets. Bottom slats 8 are provided to reinforce the bottom and also to serve as wear pieces and runners.

The box is further reinforced at the corners by the angled brackets 9 the arms of which are lapped upon the sides of the rim pieces and fixedly secured thereto as by means of the rivets shown at 10. These rivets also pass through the side and end walls providing a very secure connection for the parts.

In the embodiment illustrated the ends of the end pieces are disposed in overlapping relation to the ends of the side pieces. The end pieces are provided with longitudinal slots 11 extending for a substantial distance from their ends. In the embodiments shown in Figs. 1–4 inclusive the end engaging portions 12 of the corner irons or brackets are of downwardly facing U-shape and are arranged to embrace the end portions of the end pieces having the longitudinal slots therein and in overlapping relation to the slots. The rivets 10 are disposed above and below the slots so that the corner irons serve as effective reinforcing and tie pieces for the slotted ends of the end rim pieces. This is of very substantial advantage as these rim pieces are of relatively thin stock both as a matter of saving in material and reducing weight.

The outer portions of these bracket arms 12 are preferably provided with flanges 13 overlapping the end pieces. The corner brackets have holes 14 therein alined with the slots 10 to receive the relatively long pintles 15 of the combined stacking bails and handles 16. These stacking bails are preferably formed of rod stock as illustrated, the pintles being continuations of the arms 17 of the bails. The cross portions 18 of the bails are conformed to provide seats for a superimposed box.

The arms 17 are offset outwardly from the wall-engaging portions 19 so as to insure free swinging movement of the bails. By providing the long pintles which are in supporting engagement with the walls of the slots the bails are not distorted when used as handles or in stacking position, and they are securely retained so that they are not likely to be accidentally disengaged by springing out of the pintle bearings. In the event of wear or looseness in the pintle holes in the bracket the load is effectively sustained by the end pieces.

In the embodiment shown in Figs. 5 and 6 the end rim piece engaging arms 20 of the brackets do not have the U-shape but they overlap the slot or pintle-receiving recess 21 in the end rim pieces on the outer side while the fiber end walls 2 overlap the recesses on the inner side and serve as very effective reinforcing means for the slotted portions of the end rim pieces, rivets being provided above and below these slots.

The structure is very practical both from the standpoint of manufacture and use. The com-

bined stacking bails and handles may be made of comparatively light weight stock and at the same time are effectively pivoted and cannot be sprung out of engagement without special effort or strain being applied thereto.

We have illustrated and described our invention in very satisfactory embodiments thereof. We have not attempted to illustrate or describe further adaptations which we contemplate as it is believed this disclosure will enable those skilled in the art to embody or adapt our improvements as may be desired.

Having thus described our invention what we claim as new and desire to secure by Letters Patent is:

1. A receptacle comprising side and end walls of fibreboard, side and end rim pieces disposed on the outer sides of said side and end walls and secured thereto with the end pieces overlapping the ends of the side pieces, the end pieces having longitudinal slots at the ends thereof, angled corner brackets secured to said side and end rim pieces, the end piece engaging arms of said corner brackets being of downwardly facing U-shape and embracing the end portions of said end pieces having the longitudinal slots therein and in overlapping relation to said slots, the side pieces of said corner brackets having pintle holes therein alined with said slots in said end rim pieces, and stacking bails provided with inturned pintles of substantial length engaging said holes in said corner brackets and projecting into said slots in said end pieces.

2. A receptacle comprising side and end walls, side and end rim pieces disposed on the outer sides of said side and end walls and secured thereto, the end pieces having recesses at the ends thereof, angled corner brackets secured to said side and end rim pieces, the end piece engaging arms of said corner brackets being of downwardly facing U-shape and embracing the end portions of said end pieces having the recesses therein and in overlapping relation to said recesses, the side pieces of said corner brackets having pintle holes therein alined with said recesses in said end rim pieces, and stacking bails provided with inturned pintles engaging said holes in said corner brackets and projecting into said recesses in said end pieces.

3. A receptacle comprising side and end walls of fiberboard, side and end rim pieces disposed on the outer sides of said side and end walls and secured thereto with the end pieces overlapping the ends of the side pieces, the end pieces having longitudinal slots at the ends thereof, the end walls overlying said slots and being secured to the rim pieces above and below the slots, angled corner brackets secured to said side and end rim pieces with their end piece engaging arms overlying the slots therein, the side pieces of said corner brackets having pintle holes therein alined with said slots in said end rim pieces, and stacking bails provided with inturned pintles of substantial length engaging said holes in said corner brackets and projecting into said slots in said end pieces.

4. A receptacle comprising side and end walls, side and end rim pieces disposed on the outer sides of said side and end walls and secured thereto, the end pieces having recesses at the ends thereof, the end walls overlying said slots, angled corner brackets secured to said side and end rim pieces with their end piece engaging arms overlying the recesses therein, the side pieces of said corner brackets having pintle holes therein alined with said recesses in said end rim pieces, and stacking bails provided with inturned pintles engaging said holes in said corner brackets and projecting into said recesses in said end pieces.

5. A receptacle comprising side and end walls, side and end rim pieces disposed on the outer sides of said side and end walls and secured thereto, the end pieces having recesses at the ends thereof, angled corner brackets secured to said side and end rim pieces, the side pieces of said corner brackets having pintle holes therein alined with said recesses in said end pieces, and stacking bails provided with inturned pintles of substantial length engaging said holes in said corner brackets and projecting into said recesses in said end pieces, the end walls and the end portions of the corner brackets overlying the recessed portions of said end pieces.

6. A receptacle comprising side and end walls, side and end rim pieces disposed on the outer sides of said side and end walls and secured thereto, the end pieces having recesses at the ends thereof, angled corner brackets secured to said side and end rim pieces, the side pieces of said corner brackets having pintle holes therein alined with said recesses in said end pieces, and stacking bails provided with inturned pintles of substantial length engaging said holes in said corner brackets and projecting into said recesses in said end pieces, the end portions of the corner brackets overlying the recessed portions of said end pieces.

7. A receptacle comprising side and end walls, side and end rim pieces secured to said side and end walls, the end pieces having recesses at the ends thereof, angled corner brackets secured to said side and end rim pieces, the side pieces of said corner brackets having pintle holes therein alined with said recesses in said end pieces, and stacking bails provided with inturned pintles engaging said holes in said corner brackets and projecting into said recesses in said end pieces, the end portions of the corner brackets being of downwardly facing U-shape overlapping the recessed portions of said end pieces.

WILSON F. BEST.
WILLIAM KREMER.