Dec. 19, 1933. J. E. BALES 1,939,651

COMPARTMENT BOX

Filed May 7, 1930

FIG. 1.

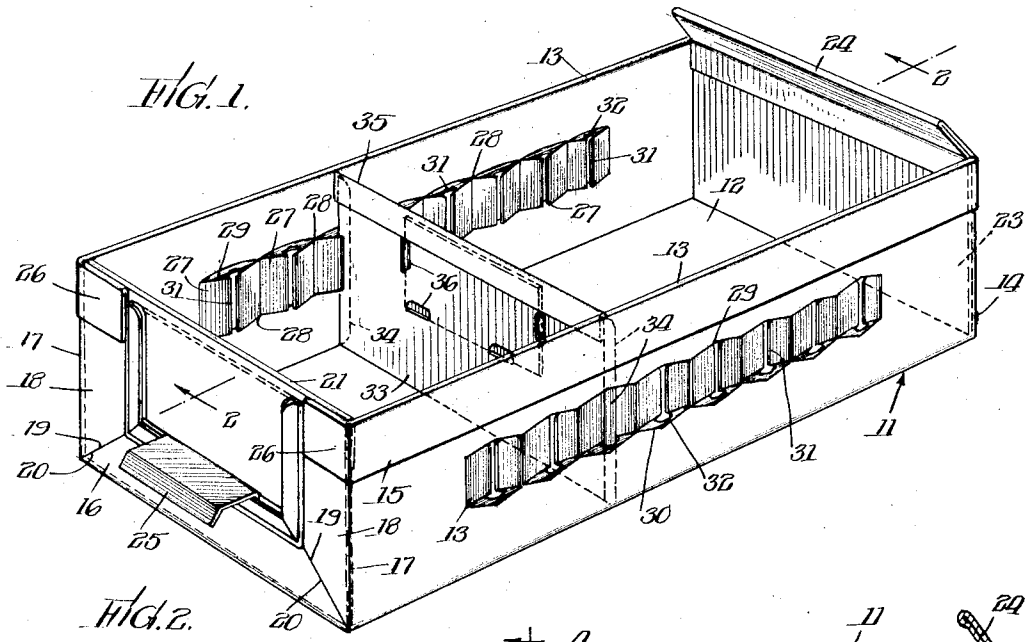


FIG. 2.

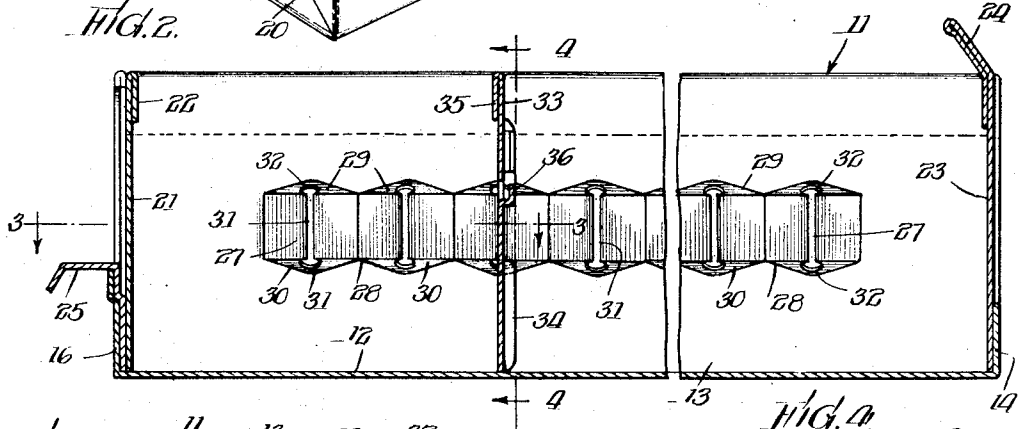


FIG. 3.

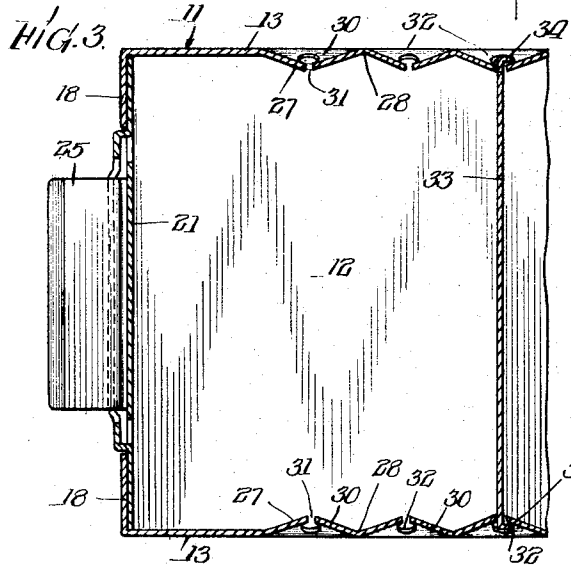
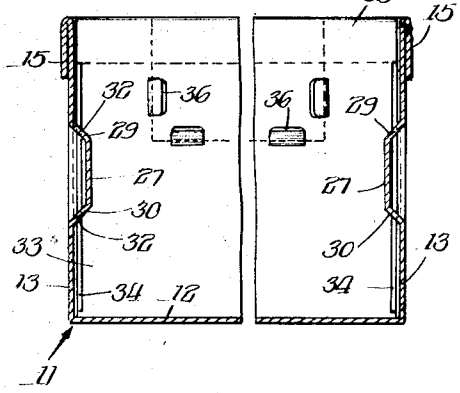


FIG. 4.



Inventor:
James E. Bales,
By Cheever, Cox & Moore
Attys.

Patented Dec. 19, 1933 1,939,651

UNITED STATES PATENT OFFICE

1,939,651

COMPARTMENT BOX

James E. Bales, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois

Application May 7, 1930. Serial No. 450,359

1 Claim. (Cl. 220—22)

This invention relates to boxes or trays in general and particularly to adjustable partitions for boxes, drawers, trays, and other similar articles.

The primary object of the invention is to provide a new and novel box, drawer, tray, or the like which has novel means for removably holding a dividing member in position.

Another object is to provide a novel box or drawer which has integral slotted projections struck from the side thereof for receiving a divider.

Another object is to provide a box, drawer, or other similar article which has a plurality of regularly spaced indentations provided on one side alining with similarly slotted indentations on the other side whereby a divider plate may be removably arranged in position.

A further object is to provide a box or drawer having slotted alined indentations on each side and a divider plate having flanged edges cooperating and interfitting with the notches in the sides.

A still further object is to provide a dividing member which is provided with new and improved means for preventing the box or drawer from spreading and for dividing the box or drawer into compartments.

Numerous other objects and advantages will be apparent throughout the progress of the following specification.

The invention comprises in general a box or drawer having indentations pressed inwardly from the sides thereof. These indentations on one side are alined with the indentations on the opposite side and are slotted to receive a removable divider. The divider is adapted to extend in alined slots in the indentations and has an integral turned flange provided thereon to prevent the box from spreading. The divider may have parts struck-out therefrom to receive a card to indicate the contents behind or before the divider. As many dividers as may be required may be positioned in the alined slots.

The accompanying drawing illustrates a selected embodiment of the invention and the views therein are as follows:

Fig. 1 is a detail perspective view of a box, drawer, or tray embodying the invention.

Fig. 2 is a detail sectional view on the line 2—2 of Fig. 1.

Fig. 3 is a detail plan section on the line 3—3 of Fig. 2.

Fig. 4 is a detail sectional view on the line 4—4 of Fig. 2.

Referring to the drawing, 11 designates a drawer which may be made of sheet metal and which has a bottom 12. Side walls and a rear flange 13 and 14 respectively are bent up vertically from the bottom 12 and are integral therewith. The upper edges of the side walls may be bent downwardly and outwardly to provide depending flanges 15. The front edge of the bottom 12 is bent vertically to provide a lower wing 16 of the box or drawer front, and the sides 13 are bent inwardly at the vertical front edges 17 thereof to provide wings 18. The wings 18 are provided with mitered edges 19 which meet companion mitered edges 20 at the ends of the lower wing 16. A front plate 21 having an inturned depending flange 22 is positioned behind the wings 16 and 18 to complete the front wall of the drawer. A back 23 is positioned inwardly of the rear flange 14 to complete the rear of the box or drawer. The back 23 has a returned doubled-over portion 24 provided thereon to act as a box or drawer stop to limit the forward sliding movement of the box or tray.

The side wings 18 and the bottom wing 16 may be flanged outwardly to provide a frame for receiving an identifying card or label relating to the contents of the drawer. A sheet metal handle 25 is fastened in any suitable manner to the front wall of the drawer and this handle extends forwardly and downwardly to provide a convenient means for sliding the box or drawer forwardly or rearwardly. If desired, the wings 18 may also have a downwardly and outwardly inturned flange 26.

The sides 13 are provided with a plurality of inwardly extending ridges 27 having furrows or valleys 28 between the ridges. These ridges have sloping or inclined tops and bottoms 29 and 30 respectively. The ridges on one side aline with the ridges on the other side and these ridges are provided with vertical slots 31 and openings 32 in their tops and bottoms 29 and 30.

A divider 33 extends across the box for separating the box into compartments. This divider is adapted to be vertically slidable in the slots 31 and has integral turned flanges 34 at its outer ends which pass through the holes 32 in the top and bottom. The upper edge of the divider 30 may have a folded-over depending flange 35 and lugs 36 may be struck from the body of the divider to provide a frame for receiving an identifying card or label to designate the contents of the compartment formed by the divider.

The invention provides a box or drawer which is made of sheet metal and which is provided with

inwardly extending spaced ridges. The tops and the bottoms of each ridge incline and are provided with alined holes which merge with vertical slots provided at the apex of the ridges. The divider plate may also be made of sheet metal and is adapted to engage oppositely alined slots on the sides. The divider is provided with depending flange which engage the hole in the tops and bottoms of the ridges to prevent the box or drawer from spreading. The divider can be readily removed and shifted from one position to another or several dividers may be used, if required. The box or drawer and its cooperating divider is strong and rigid and may be readily and economically manufactured.

Changes may be made in the form, construction, and arrangement of the various parts without departing from the spirit of the invention or sacrificing any of its advantages, and the right is hereby reserved to make all such changes as fairly fall within the scope of the following claim.

The invention is hereby claimed as follows:

A receptacle comprising oppositely disposed interior enclosing walls, said walls having integral consecutively spaced V-shaped protuberances struck inwardly therefrom, said V-shaped protuberances on one wall being in alinement with the protuberances on the opposite wall, said protuberances having vertical grooves formed in their apices, and a divider element adapted for engagement with alined grooves.

JAMES E. BALES.