March 4, 1952 I. A. DELINE 2,587,706

COMPARTMENT BOX PARTITION

Filed March 7, 1949

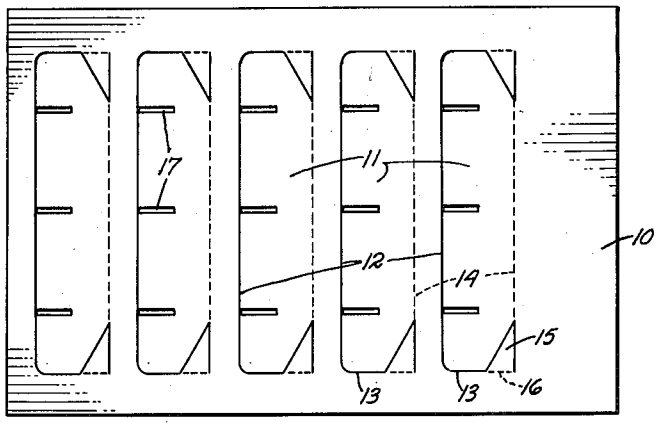


FIG. 1

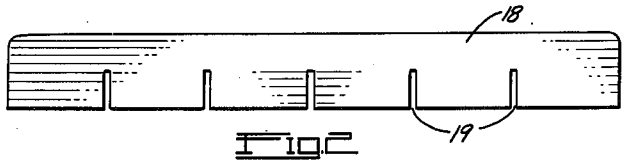


FIG. 2

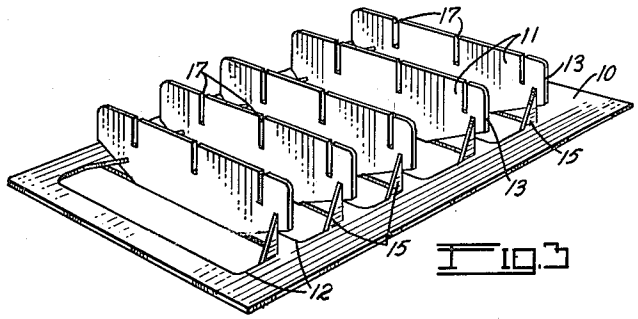


FIG. 3

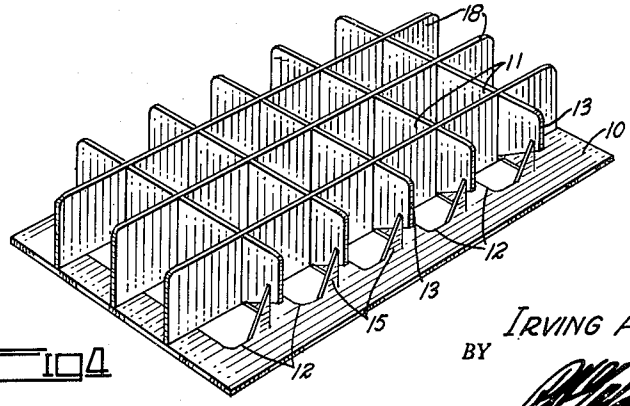


FIG. 4

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COMPARTMENT BOX PARTITION

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3 Claims. (Cl. 229—42)

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This invention relates to a partition member for boxes and packages, and has for its principal object the provision of an economical, easily manufactured and easily used, partition member which will divide a box or package into a plurality of longitudinally and laterally extending, individual merchandise compartments.

Partition members have been made by stamping portions from a flat sheet and thence bending these portions upwardly. These have not been satisfactory for quantity production, due to the fact that the upwardly bent portions gradually bend back toward their former positions and will not retain themselves in place until they can be braced by longitudinal partitions or by the merchandise. Another object of this invention is to so design a cut-out partition blank that integral means will be provided for bracing and holding the bent partitions in their final positions.

Other objects and advantages reside in the detail construction of the invention, which is designed for simplicity, economy, and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention, reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:

Fig. 1 is a plan view of a sheet of card or box board cut to form the improved partition member;

Fig. 2 is a side view of a longitudinal partition used in combination with the blank of Fig. 1 to form the complete device;

Fig. 3 illustrates the blank of Fig. 1 folded to form the lateral partitions of the improved partition member; and

Fig. 4 illustrates the complete partition member with the longitudinal partitions of Fig. 2 in place therein.

The improved partition member is formed principally from a rectangular sheet of cardboard 10 from which a plurality of laterally extending partitions 11 are cut. The partitions 11 are formed by cut lines 12 which extend transversally of the sheet 10, thence turned at right angles at each extremity to form the ends 13 on the partitions, thence inwardly on an incline to a fold line 14, thence outwardly in alignment with the fold line 14 to form pointed brace tabs 15.

The brace tabs 15 are connected to the sheet 10 by means of fold lines 16 aligned with the end

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cut lines 13, and at right angles to the fold line 14. The upper edge of each partition 11 is notched, as shown at 17, for substantially one-half of its width.

Longitudinal partition members 18 are formed from elongated strips of cardboard equaling in length the length of the blank 10. The strips 18 are notched along their lower edges at spaced-apart intervals, as shown at 19, the notches corresponding in number to the number of lateral partitions 11 and being spaced in accordance with the spacing of the fold lines 14.

The device is erected by a machine or fixture having plungers which press against each of the partition folds 11 to force them upwardly at right angles to the plane of the sheet 10. After the partition folds have been turned to their right angular position, the tabs 15 follow upwardly to an angle of approximately 45° so that the point of each tab will rest against one of the partition folds to prevent the natural resiliency of the material from folding the members 11 downwardly. The blank then presents the appearance of Fig. 3, with all of the partition folds held in rigid, parallel, vertical, universally spaced alignment.

The longitudinal partition strips 18 are now lowered onto the lateral partitions 11 so that the notches 19 will engage in the notches 17 to allow the partitions 18 to be forced downwardly to the flush position of Fig. 4, thus completing the assembly.

The completed partition member may be placed in a box for separating confections such as chocolate coated cherries, or it may be simply wrapped in cellophane for supporting and separating cookies and the like.

For elongated merchandise the longitudinal partition strips 18 may be omitted and the merchandise placed between the lateral partitions 11 of Fig. 3. It has been found that without the tabs 15 it is exceedingly difficult to place the longitudinal strips 18 in place, since each individual lateral partition must be manually fitted into the notches 19. With the tabs, however, the lateral partitions 11 are held in rigid, upright position so that individual positioning is not necessary.

While a specific form of the improvement has been described and illustrated herein, it is to be understood that the same may be varied, within the scope of the appended claims, without departing from the spirit of the invention.

Having thus described the invention, what is claimed and desired to be secured by Letters Patent is:

1. A partition member for boxes and packages, comprising: a flat cardboard sheet; a plurality of lateral partitions cut from said sheet at their one side and both extremities and folded upwardly at right angles to said sheet along the other side in spaced-apart, parallel relation along parallel scored lines; and end tabs cut from said lateral partitions and being foldably secured to said sheet at right angles to and at the extremities of said lateral partitions the cut defining one side of a tab being in substantial alignment with the fold line of the partition from which it is cut, said tabs being folded upwardly at an angle to the plane of said sheet so that the edges of the tabs will engage and support said partitions in their upright position.

2. A partition member for boxes and packages, comprising: a flat cardboard sheet; a plurality of lateral partitions cut from said sheet at their one side and both extremities and folded upwardly at right angles to said sheet along the other side in spaced-apart, parallel relation along parallel scored lines; and end tabs cut from said lateral partitions and being foldably secured to said sheet at right angles to and at the extremities of said lateral partitions the cut defining one side of a tab being in substantial alignment with the fold line of the partition from which it is cut, said tabs extending upwardly from said sheet so that one edge of each tab will engage and support said partitions in their upright position, one side of each tab lying in the vertical plane of a lateral partition, the other side being inclined outwardly and away from said partition.

3. A partition member for boxes and packages, comprising: a flat cardboard sheet; a plurality of lateral partitions cut from said sheet at their

one side and both extremities and folded upwardly at right angles to said sheet along the other side in spaced-apart, parallel relation along parallel scored lines; end tabs cut from said lateral partitions and being foldably secured to said sheet at right angles to and at the extremities of said lateral partitions the cut defining one side of a tab being in substantial alignment with the fold line of the partition from which it is cut, said tabs extending upwardly at an angle of substantially 90° to the plane of said sheet and sidewardly at an angle of substantially 90° to the plane of said partitions so that one edge of each tab will engage and support said partitions in their upright position, each lateral partition being provided with vertical, spaced-apart notches along its upper edge extending through substantially one-half the width of said partition; and a plurality of longitudinally extending partition strips, each of said latter partition strips being notched at its bottom for a distance of substantially one-half its height, said notches corresponding in spacing to the spacing of said lateral partitions and being in engagement with the latter.

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