Dec. 19, 1933. R. M. LACKEY 1,940,309

BOX

Filed March 25, 1932

Fig. 1.

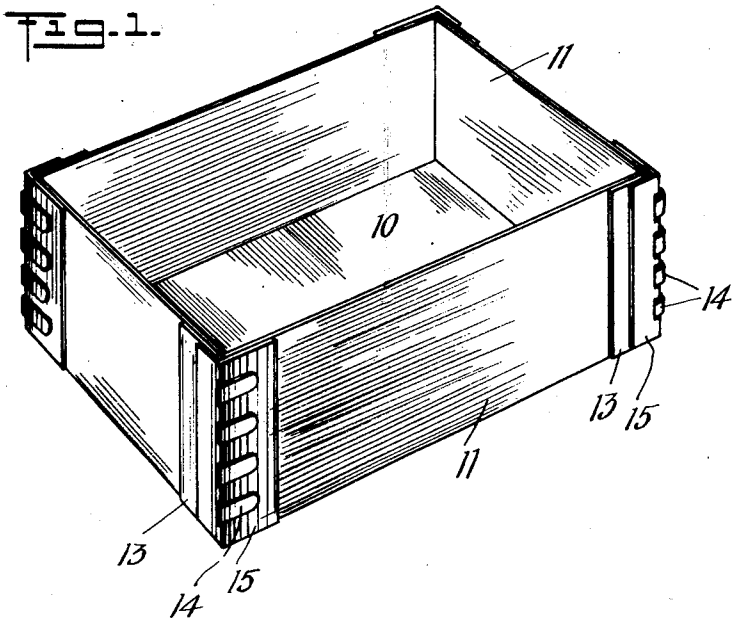


Fig. 2.

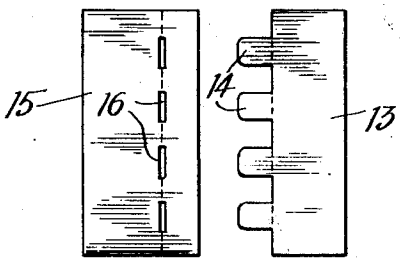


Fig. 3.

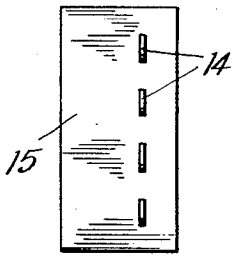


Fig. 4.

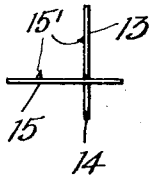
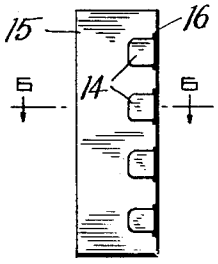


Fig. 5.



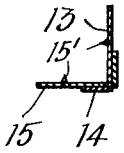


Fig. 6.

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Patented Dec. 19, 1933 1,940,309

UNITED STATES PATENT OFFICE

1,940,309

BOX

Robert M. Lackey, Cohoes, N. Y.

Application March 25, 1932. Serial No. 601,077

1 Claim. (Cl. 229—49)

This invention relates to improvements in boxes, and more particularly to box corners.

Objects

Among the principal objects which the present invention has in view are:—To provide a box of simplified construction which may be retained in assembled condition by a simplified means; to provide a means for retaining the box in assembled condition and which may be quickly and readily applied; to avoid perforations and the like in the walls of the box; to provide a structure adaptable to various types of material, and especially to card-board of either heavy or light weight texture; to simplify the cutting of the blank from which the body portion of the box is folded; to provide a means stronger than the body portion of the box for locking the corners together; to obtain a reinforcement of the box in a direction from top to bottom; to secure simplicity of construction and operation; and to obtain other advantages and results as may be brought out in the following description.

Drawing

Figure 1 is a perspective view of a box embodying my invention;

Figure 2 is an elevation of the pair of locking members;

Figure 3 is an elevation of the locking members in partly assembled relation;

Figure 4 is a plan of the same;

Figure 5 is an elevation of the locking members in completely assembled relation; and

Figure 6 is a sectional view shown as taken on line 6—6 of Figure 5.

Description

As seen in the drawing, the box provides a bottom wall 10 and side walls 11 upstanding therefrom and intersecting as usual at the four corners of the box. The ends of the side walls are preferably straight and have a substantially abutting engagement with each other, that is to say, are not provided with an extra length to be folded around the corner for obtaining a lap joint.

In order to secure these meeting corners of the side walls of the box in assembled condition, I provide a pair of locking members for each corner. One such pair of locking members is shown in Figure 2, and one of these members designated by numeral 13 provides a longitudinal edge having a plurality of tongues or tabs 14 projecting therefrom in parallel relationship to each other. The other member designated by numeral 15 is provided with a plurality of slots 16 arranged endwise in a row and of proper size and spacing to receive the several tabs 14 of the other member 13. It may be observed that these members are both of substantially the same height and are likewise of substantially the same height as the side walls 11 of the box.

When the tabs 14 are inserted in the slots 16, the members 13 and 15 will be at right-angles to each other as clearly shown in Figures 3 and 4. The tabs may then be folded down against the member 15 through which they project and the margin of said member 15 projecting away from the folded ends of the tabs may be folded down against the other member 13 as clearly shown in Figures 5 and 6. These folds may, however, be made otherwise if found more desirable.

The members 13 and 15 are secured to the end portions of the meeting walls of the box so that the right-angle formed by the said walls is included immediately within the right-angle formed by the pair of members. Said members are secured to suitable adhesive or other desired securing means, such as spurs 15'.

While I have described the assembly of the locking members prior to describing the attachment of said members to the box walls, it is to be understood that I do not confine myself to this order of assembly, and in fact, I prefer to secure the locking members to the walls prior to assembling said members with respect to each other. The fact that said members have a height substantially equal to the height of the box, enables the same to be applied in proper relationship so as to be assured of proper fitting of the tabs 14 with respect to slots 16. Furthermore, the edge of the member 13 at the base of the tabs will be positioned next to the edge of the side wall, and the slots 16 in the other member 15 will be positioned adjacent the end edge of the other side wall thus affording a gauge by which both members may be conveniently assembled by machine or otherwise.

The said members 13 and 15 are preferably of metal and, because of that fact, will provide a degree of reinforcement for the corners of the box, the value of which is enhanced by reason of the said members having a height substantially equal to the height of the box wall. The metal forming the said locking members may be of relatively light weight and still accomplish the purpose for which said members are provided. It may further be noted that the fact the slots

16 are aligned produces a natural line upon which member 15 containing those slots will be readily bent when folding the same to assembled position.

I claim:

A box as characterized providing a pair of walls meeting at end edges, a pair of locking members of which one member is attached to one of said walls at the end edge thereof and provides alined slots forming a line of bending of said member longitudinally of said end edge of the wall to which said member is attached, and the other member of said pair being attached to the other wall at the end edge thereof and providing tabs opposed to each of said slots passing through the same and bent to lie flatwise against the other member, whereby the two walls are secured with all exposed parts of said members lying flatwise in juxtaposition to the said walls.

ROBERT M. LACKEY.