May 18, 1937. E. H. MELL ET AL 2,080,496

END WALL CONSTRUCTION FOR WOODEN BOXES

Filed June 1, 1936

Fig. 1.

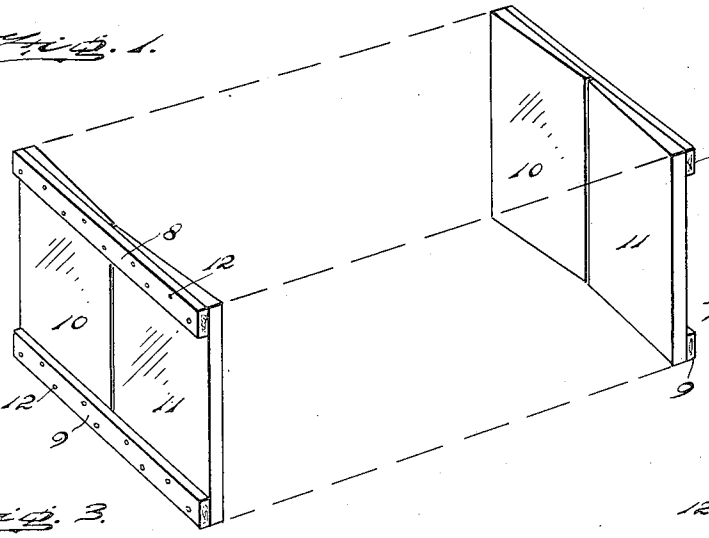


Fig. 2.

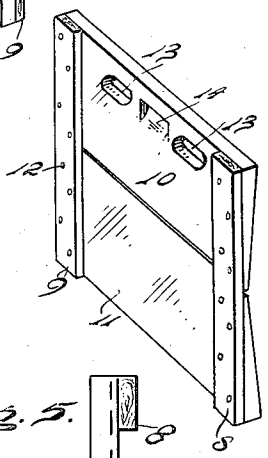


Fig. 3.



Fig. 4.

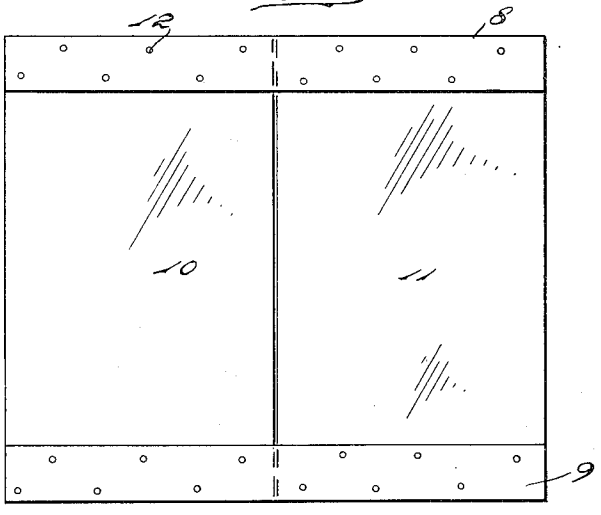


Fig. 5.

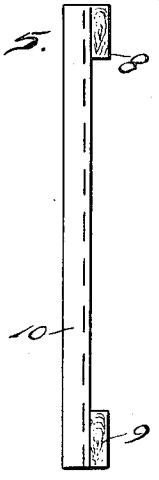


Fig. 6.

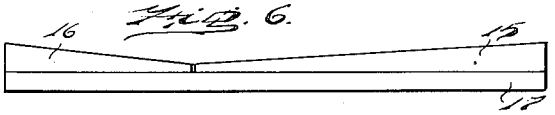
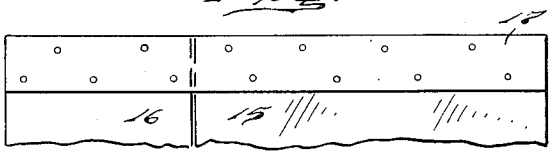


Fig. 7.



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END WALL CONSTRUCTION FOR WOODEN BOXES

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Application June 1, 1936, Serial No. 82,688

3 Claims. (Cl. 217—17)

The object of our invention is to devise a novel end wall construction for wooden shipping boxes which will provide a stronger construction for the same amount of wood.

A further object is to increase the thickness of the nailing portion at two opposite edges without increasing the amount of lumber employed.

A further object of the invention is to provide a stronger construction where hand holes or finger recesses are used.

With the above and other objects in view, as will more clearly hereinafter appear, our invention comprehends a novel end wall construction for wooden shipping boxes.

Other novel features of construction and advantage will hereinafter more clearly appear in the detailed description and the appended claims.

For the purpose of illustrating our invention, we have shown in the accompanying drawing preferred embodiments of it, which, in practice, will give satisfactory and reliable results. It is, however, to be understood that these embodiments are typical only and the various instrumentalities of which our invention consists can be variously arranged and organized, and the invention is not limited to the exact arrangement and organization of these instrumentalities as herein set forth.

Figure 1 is a perspective view of a wooden shipping box, in conjunction with which an end wall construction, embodying our invention is employed.

Figure 2 is a perspective view of an end wall, with the end boards disposed laterally instead of vertically as in Figure 1.

Figure 3 is a top plan view of the end wall seen in Figure 1.

Figure 4 is a front elevation of an end wall.

Figure 5 is an edge view of Figure 4.

Figure 6 is a top plan view of another embodiment of our invention.

Figure 7 is a front elevation of a portion of the end wall seen in Figure 6.

Similar numerals indicate corresponding parts.

Referring to the drawing:—

As our invention relates more partcularly to the end wall constructon of a wooden shipping box, the top, bottom and side walls of the box illustrated in Figure 1 are shown dotted.

The end wall comprises an upper cleat 8, a lower cleat 9, and two wedge shaped end boards 10 and 11, with their edges of least thickness at the sides presented towards each other and in close proximity to each other. The end boards are nailed to the cleats by the nails 12. The end boards may be disposed vertically as in Figures 1, 3, 4 and 5 or laterally as in Figure 2.

If hand holes 13 or finger recesses 14 are employed as in Figure 2, a stronger construction is provided for them due to the increased thickness of the wood.

The increased thickness of the end boards at opposite side edges of the end wall makes it easier to nail.

The nails are held more securely and there is less chance of splitting the wood.

In Figure 1, the box sides are nailed to the thick edge portions of the end walls and the top and bottom of the box are nailed to the cleats.

The end boards preferably terminate near the center of the end wall, but these end boards if desired may be of unequal width as shown in Figures 6 and 7. In these figures an end board 15 is wider than an end board 16. These end boards are wedge shaped or tapering and are nailed to cleats 17, in a similar manner as the end boards 10 and 11 are nailed to their cleats.

It will now be apparent that we have devised a new and useful end wall construction for wooden boxes which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description, and while we have, in the present instance, shown and described preferred embodiments thereof, which will give in practice satisfactory and reliable results, it is to be understood that these embodiments are susceptible of modification in various particulars without departing from the spirit or scope of the invention or sacrificing any of its advantages.

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

1. A wall construction for wooden shipping boxes, comprising boards each having an outer side straight and the opposite side wall tapering inwardly from the outer edge with the edges of least thickness presented to each other, cleats extending across the boards on the straight side at opposite marginal portions to traverse the varying thickness of the boards, and fastening devices securing the cleats and boards together.

2. A wall construction for wooden shipping boxes, comprising boards each having an outer side straight and the opposite side wall tapering inwardly from the outer edge with the edges of least thickness presented to each other, and with the tapering walls presented to the inside of the box, cleats extending across the boards on the straight side at opposite marginal portions to

traverse the varying thickness of the boards, and fastening devices securing the cleats and boards together.

3. A wall construction for wooden shipping boxes, comprising boards each having an outer side straight and the opposite side wall tapering inwardly from the outer edge with the edges of least thickness presented to each other and with the tapering walls presented to the inside of the box, cleats extending across the boards on the straight side at opposite marginal portions to traverse the varying thickness of the boards, fastening devices securing the cleats and boards together, and hand receiving openings at the thicker marginal edge of one of the boards.

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