

UNITED STATES PATENT OFFICE

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BOX

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This invention relates to improvements in fiber or paper board boxes and consists of the matters hereinafter described and more particularly pointed out in the appended claim.

The invention relates more specially to the type of box known as an end loader, the box consisting of a tubular body and of heads to close the open ends of said body.

The object of the invention is to produce a box of the type consisting of two blanks instead of the three blanks heretofore generally used in making boxes of the kind.

Another object of the invention is to produce a box of the kind in which the capacity of the box will be the maximum capacity of its tubular body diminished only by the thickness of the heads and in which there shall be no projecting shoulders due to flanges overlapping on the interior surface of the box.

Another object of the invention is to produce a box of the kind in which the heads, though flush with the ends of the tubular body, are provided with efficient support to resist inward thrust against them and in which the heads and body are so interengaged as to stand up rigidly against transverse blows or thrusts against the ends of the box.

These and other advantages of the box will appear more fully as I proceed with my specification.

In the drawings:—

Figure 1 is a perspective view of a box embodying the invention as it appears when set up, loaded and sealed ready for shipment, with part of the sealing tape which holds the top head to the body broken away to show the manner in which the head engages the body.

Figure 2 is a perspective view showing the two blanks comprising the tubular body and the two heads attached together in the process of forming the box.

In Figure 3 are shown perspective views of the two blanks which form the box.

In illustrating my invention I have shown the box made from blanks of corrugated board but it will be understood it may likewise be made of solid fiber board. In the drawings:—10, 11 indicate the two blanks which go to form the body and the two heads

of the box. The blank 10 is cut and creased to provide one body section 12 and the two head sections 13, 13. The other blank 11 is cut and creased to form three body sections 14, 15 and 16. The body section 12 has its greatest dimension running lengthwise of the blank 10, whereas the body sections 14, 15 and 16 have their greatest dimension running transversely of the blank 11.

The two head sections 13, 13 have laterally extending wide tongues 17, 17. They likewise have additional tongues 17^a, 17^a extending endwise of the blank. The body sections 14, 15 and 16 of the blank 11 have at their ends wide notches 18. The two blanks thus cut and creased may be shipped flat to the point of use ready to be set up by the shipper.

To form the box the long edge (14^a or 16^a) of one of the body sections 14 or 16 at an end of the blank 11 is connected to the long edge 12^a of the body section 12 on the blank 10 by one or more strips of gummed tape 19, as illustrated in Figure 2. As shown, the long edge 14^a is connected to the long edge 12^a of the body section 12. The other long edge 12^b of the body section 12 is then brought against the margin of the body section 16 with the outer face of the body section 12 flush with said edge and the two body sections in a like manner are secured together by a strip or strips of gummed tape 20. This forms a tubular box body with top and bottom heads hinged to the body section 12 thereof.

The bottom head 13 is next folded into position within the open bottom end of the tubular body,—the three tongues 17, 17 and 17^a being engaged in the several notches 18, 18, 18 in the bottom ends of the body sections 14, 15 and 16. Said head is sealed in place by means of one or more strips of gummed tape 21, as shown in Figure 1.

After the body is packed the top head 13 is folded into place with its several tongues 17, 17 and 17^a engaged in the notches 18 at the top ends of the tubular body walls and sealed by the tape strips 22 as in the case of the bottom head. This completes the operation and the box is ready for shipping.

The box is cheap and economical to manu-

facture and the blanks may be made with a great saving in material. The blanks are easily and readily connected and set up to form the box and it may be set up, loaded and sealed in a very short time.

5 I claim as my invention:

A box made of fiber or paperboard, having a tubular body and top and bottom heads, said box comprising two blanks, a blank cut and creased to form three body sections of the
10 tubular body, and a blank cut and creased to form the two heads, with the fourth body section extending lengthwise of the blank between them, the heads being provided with wide tongues at their free edges and the three
15 body sections on the other blank having wide notches at their ends of the width of said tongues and of the depth equal to the thickness of the board, whereby when said tongues and notches are engaged the heads and body
20 sections of the box present flush faces at the corners where they are interlocked, and an adhesive tape connecting the several separable parts of the box rigidly together.

25 In testimony that I claim the foregoing as my invention, I affix my signature this 3d day of August, A. D. 1927.

HARRISON B. WALTER.

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