C. HOFMAN.

SHIPPING BOX.

APPLICATION FILED MAY 24, 1916.

1,270,294.

Patented June 25, 1918.

2 SHEETS—SHEET 1.

Fig. 1

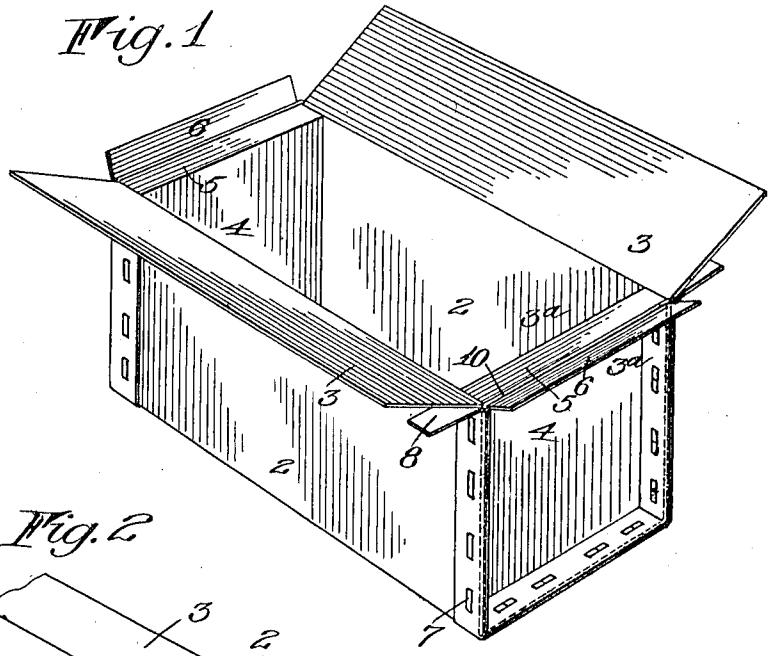


Fig. 2

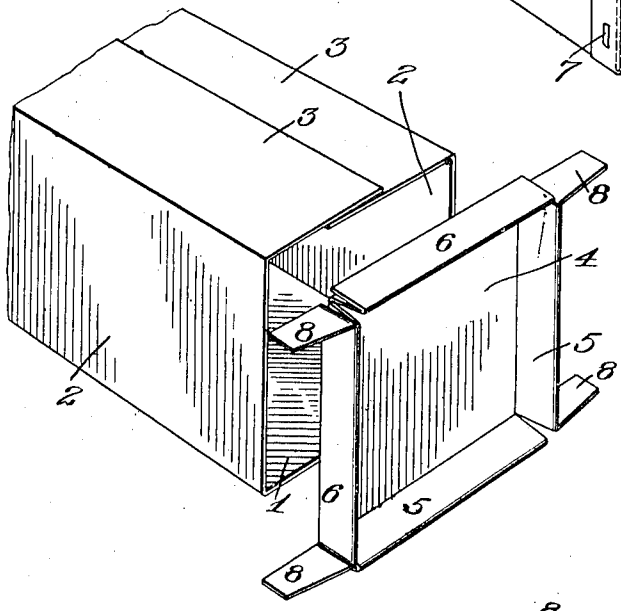


Fig. 3

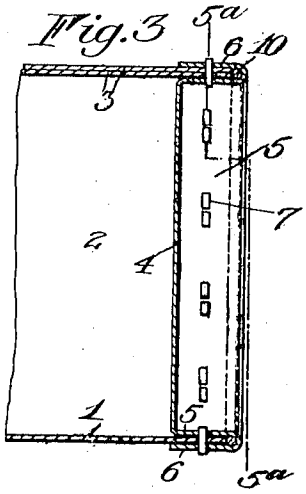
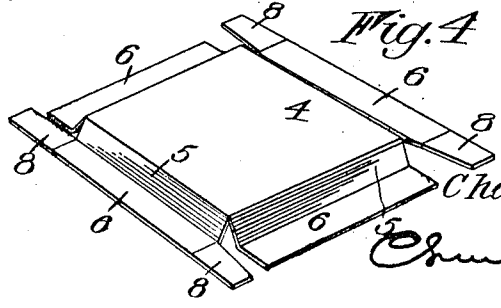


Fig. 4



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2 SHEETS—SHEET 2.

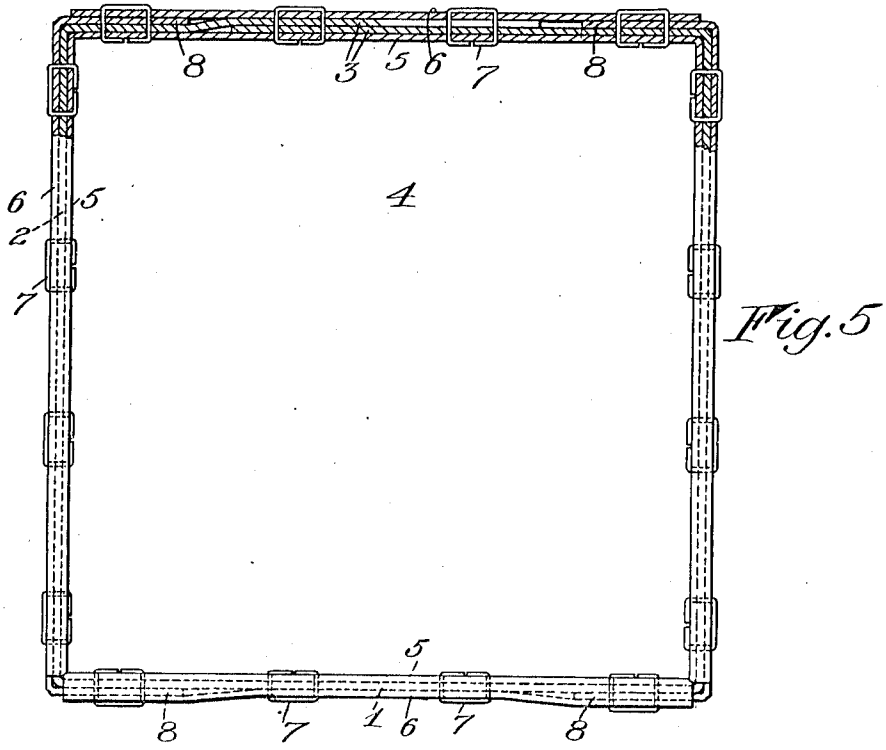


Fig. 5

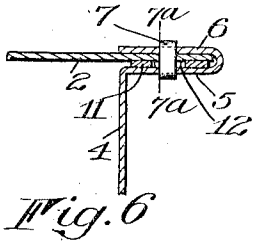


Fig. 6

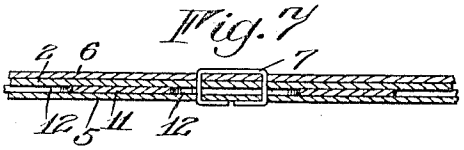


Fig. 7

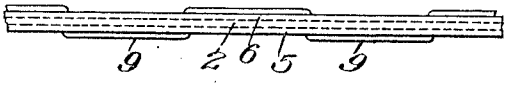


Fig. 8

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UNITED STATES PATENT OFFICE.

CHARLES HOFMAN, OF ROCHESTER, NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS, TO BERTHA VIRGINIA HOFMAN, OF ROCHESTER, NEW YORK.

SHIPPING-BOX.

1,270,294. Specification of Letters Patent. **Patented June 25, 1918.**

Application filed May 24, 1916. Serial No. 99,501.

To all whom it may concern:

Be it known that I, CHARLES HOFMAN, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Shipping-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My invention has for its purpose to afford an improved construction in shipping boxes of the general type made from heavy cardboard, paper, fiber, or other flexible material, in order to afford a structure which can be reasonably and easily manufactured and assembled, and which at the same time possesses the necessary characteristics of strength and durability to withstand the usual wear and tear, without likelihood of its breaking, or of the contents suffering damage. To these and other ends the invention consists in certain improvements and combinations of parts, all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings:

Figure 1 is a perspective view showing one embodiment of my invention with the box in position to be filled;

Fig. 2 is a perspective view showing one of the end portions before its attachment to the body;

Fig. 3 is a sectional view in the direction of line 3^a—3^a of Fig. 1, with the box closed;

Fig. 4 is a perspective view of the blank from which an end portion is formed;

Fig. 5 is a sectional view on line 5^a—5^a of Fig. 3;

Fig. 6 is a detail sectional view showing a modified form of stiffening member;

Fig. 7 is a sectional view on line 7^a—7^a of Fig. 6, and

Fig. 8 is an end elevation showing a modified form of securing devices.

Similar reference numerals in the several figures indicate the same parts.

The structure of the present embodiment comprises a body which includes a bottom 1, sides 2 and top portions 3, which overlap one another when the box is closed, as shown in Fig. 2, and the body may be formed of either one or more pieces as may be preferred.

The body is held together by end portions, each of which includes an end wall 4, that is inset from the end of the body portion. Integrally attached to the end wall 4 are inner walls 5 which lie adjacent to the inner surfaces of the body, while 6 designate outer walls integrally connected with the inner walls 5, and adapted to lie adjacent to the outer surfaces of the body as shown in Fig. 3. The inner and outer walls 5 and 6 are both coextensive with the edges of the end wall 4 to which they are attached, thereby affording efficient bracing and holding means for the walls of the body. The end wall 4 is held in place by securing devices in the form of staples or rivets 7, which pass through the outer and inner walls 5 and 6, and the intermediate portions of the body, and in order to hold the parts more securely, particularly at the corners, the alternate outer walls 6 are provided with integral tabs or extensions 8, which overlie the ends of the adjacent outer walls, and are attached thereto by the securing devices already referred to. Instead of the rivets or staples 7, I may employ a wire thread to be stitched through the several thicknesses in the maner shown in Fig. 8, in which the securing wire is designated by 9.

In order to further reinforce the structure, and to add to its rigidity, I employ a stiffening member preferably in the form of a continuous wire or metal rod 10 located adjacent to the end of the body and arranged between the outer and inner walls 5 and 6 as shown in Fig. 3. As a modification of the stiffening member, I also purpose employing a flat strip as designated at 11 in Figs. 6 and 7, and located adjacent to the inner surface of the body, the stiffening strip 11 being preferably formed of metal and provided with openings 12 to receive the securing devices 7.

The box is constructed and assembled in the manner shown in Fig. 1, and after being filled, the top portions 3 are closed in the manner indicated in Fig. 2, after which the extensions or tabs 8 are brought down into

engagement with the top portions and thereafter the outer walls 6 are closed and secured in place by suitable attaching means.

I claim as my invention:

1. An article of manufacture, comprising a box having a body portion comprising bottom, side, and top members made of a single folded piece of material the ends of which overlap to reinforce each other along the middle of the top, end pieces each of which comprises an end wall having integral inner wall members adjacent the inner surfaces of the body portion and integral outer walls adjacent the outer surfaces of the body portion, said outer walls being provided with reinforcing extensions overlying the ends of the adjacent outer wall, and having said inner and outer walls and their extensions secured to the body portion and to each other by suitable fastening means.

2. An article of manufacture, comprising a box having a body portion comprising bottom, side, and top members made of a single folded piece of material the ends of which overlap to reinforce each other along the middle of the top, end pieces each of which comprises an end wall having integral inner wall members adjacent the inner surfaces of the body portion and integral outer walls adjacent the outer surfaces of the body portion, said outer walls being provided with reinforcing extensions overlying the ends of the adjacent outer wall, and having said inner and outer walls and their extensions secured to the body portion and to each other by suitable fastening means, and a reinforcing strip between said inner and outer walls adjacent the end of the body portion.

CHARLES HOFMAN.

Witnesses:
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H. E. STONEBRAKER.