May 8, 1945. L. V. SINGLEY 2,375,700

VENTILATED SHIPPING BOX

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Fig. 1.

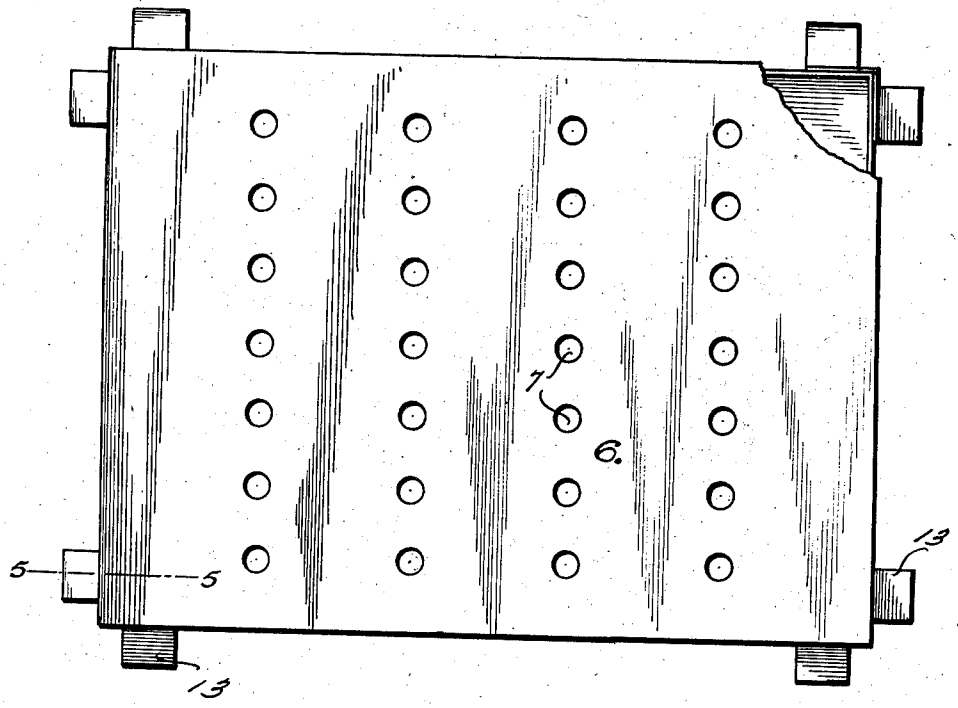
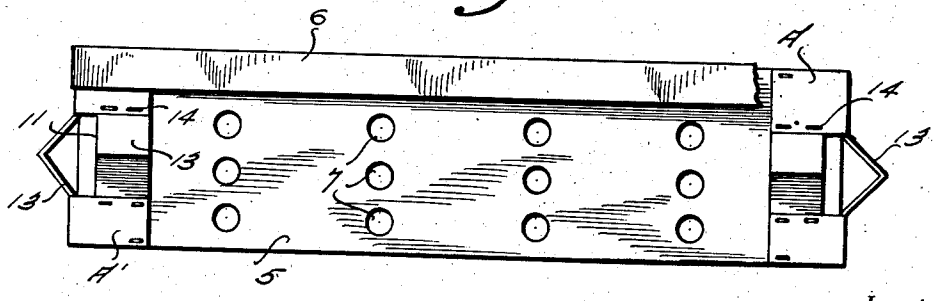


Fig. 2.



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Fig. 3.

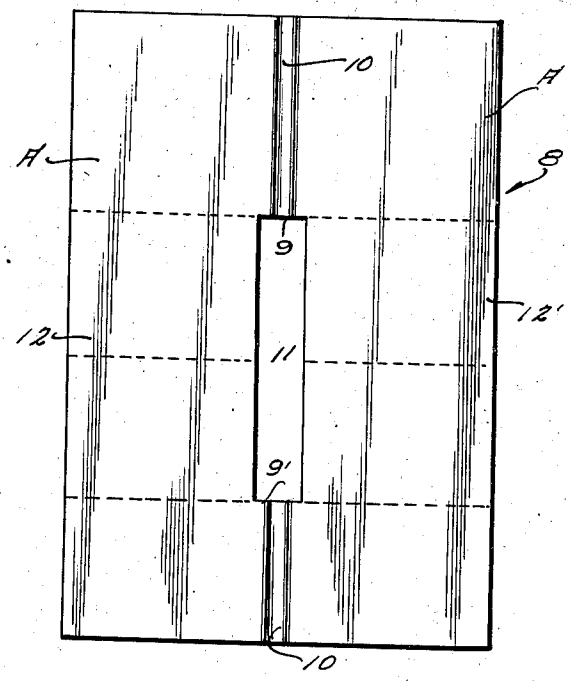
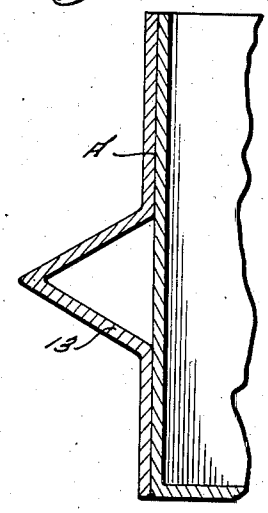


Fig. 5.



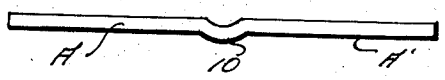
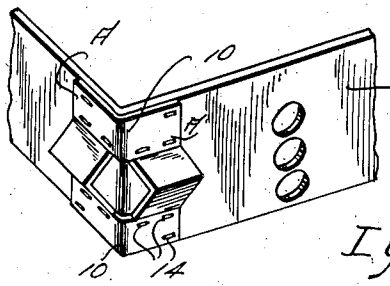


Fig. 4.

Fig. 6.



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UNITED STATES PATENT OFFICE

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VENTILATED SHIPPING BOX

Lyle V. Singley, Bloomington, Ill.

Application February 25, 1944, Serial No. 523,852

3 Claims. (Cl. 229—6)

This invention relates to ventilated cardboard boxes used for shipping baby chicks and the like, and the primary object of the present invention is to provide a box of the above kind with simple and efficient means for preventing the boxes of one stack from having close contact with the boxes of adjacent stacks when placed in cars for shipment.

More particularly, an object of the present invention is to provide a simple and efficient device adapted to be attached to the corners of a ventilated shipping box, whereby to effect spacing of adjacent boxes in the manner set forth above.

With the above and other objects in view, the present invention consists of the novel features and details of construction hereinafter more fully described, illustrated in the accompanying drawings and claimed.

In the drawings, wherein like reference characters indicate corresponding parts throughout the several views:

Figure 1 is a top plan view, partly broken away, of a ventilated shipping box provided with spacing means constructed in accordance with the present invention.

Figure 2 is an elevational view thereof, partly broken away.

Figure 3 is an enlarged plan view of the blank from which one of the spacing devices is formed.

Figure 4 is an edge view thereof looking downwardly at Figure 3.

Figure 5 is an enlarged fragmentary vertical section taken on the plane of line 5—5 of Figure 1, with the cover of the box removed.

Figure 6 is a fragmentary perspective view showing a corner portion of the box with one of my spacing devices applied thereto.

Referring in detail to the drawings, 5 indicates the body of a ventilated shipping box, and 6 the lid thereof. The body is in the form of a tray and is formed of suitable material such as stiff cardboard. The lid 6 is constructed of similar material, and the top of the lid as well as the side walls of the body are provided with ventilating openings 7.

In accordance with the present invention, a novel and efficient spacing device is applied to the box body 5 at each of the corners thereof. As shown, each spacing device is formed from a blank 8 stamped from an elongated sheet of water-proofed cardboard possessing high resistance to bursting pressure. This blank consists of similar vertical half-sections A and A' whose upper and lower portions are integrally connected at adjacent sides by connecting portions 9 and 9' having vertically aligned central crimps 10 to facilitate folding of the blank about the corner of the box with the sections A and A' disposed upon the angularly related vertical walls of the body 5 at opposite sides of the adjacent box corner. As shown, the blank 8 is provided with a vertically elongated central slot 11 so that the sections A and A' have intermediate portions 12 and 12' which are unconnected at their adjacent sides. The blank 8 is of a length greater than the height of the side walls of the body 5, so that when the blank is applied to position its upper and lower edges flush with the top and bottom of the body 5, the disconnected intermediate portions 12 and 12' of the sections A and A' are partially folded to provide outwardly protruding V-shaped spacing ribs 13 adjacent and at opposite sides of the box corner to which the device is applied. The ends of the sections A and A' are attached to the box body by stapling or the like, as at 14, and in this way strong and efficient spacing ribs are provided which protrude from the walls of the body 5 so as to effectively space the containers of one tier from those of adjacent tiers. In this way, proper ventilation of the boxes is insured so that the chicks placed in the boxes will not die from suffocation. The upper portions of the sections A and A' provide the side walls of the body 5 with additional thicknesses at the points where they are positioned, thereby aiding in more securely frictionally retaining the lid 6 upon the body 5. It will be seen that the spacing devices are of simple and durable form as well as economical to manufacture and easy to apply.

What I claim as new is:

1. In combination with a ventilated cardboard box for shipping baby chicks and the like, said box comprising a rectangular body having ventilating openings in the side walls thereof, and a lid, spacing devices applied to the corners of the body, each of said spacing devices including two similar vertical sections of cardboard integrally connected along adjacent edges at the top and bottom thereof and having intermediate portions unconnected at the adjacent sides thereof, said sections being applied to adjacent walls of the box at opposite sides of the corner with the intermediate portions partially folded to provide outwardly projecting V-shaped spacing ribs, and means securing the sections to the walls of the box.

2. In combination with a ventilated cardboard box for shipping baby chicks and the like, said box comprising a rectangular body having venti-

lating openings in the side walls thereof, and a lid, spacing devices applied to the corners of the body, each of said spacing devices including two similar vertical sections of cardboard integrally connected along adjacent edges at the top and bottom thereof and having intermediate portions unconnected at the adjacent sides thereof, said sections being applied to adjacent walls of the box at opposite sides of the corner with the intermediate portions partially folded to provide outwardly projecting V-shaped spacing ribs, and means securing the sections to the walls of the box, the connections between the upper and lower ends of said sections having central vertically aligned crimps receiving the corner of the box.

3. A spacing device for the corner of a ventilated shipping box comprising a cardboard member having a central vertically elongated slot defining vertical half-sections integrally connected at the top and bottom and unconnected at the intermediate portions thereof, said half sections being disposed at a right angle to each other, the unconnected intermediate portions of the sections being partially folded on central horizontal lines to provide spaced outwardly directed horizontal spacing ribs.

LYLE V. SINGLEY.