

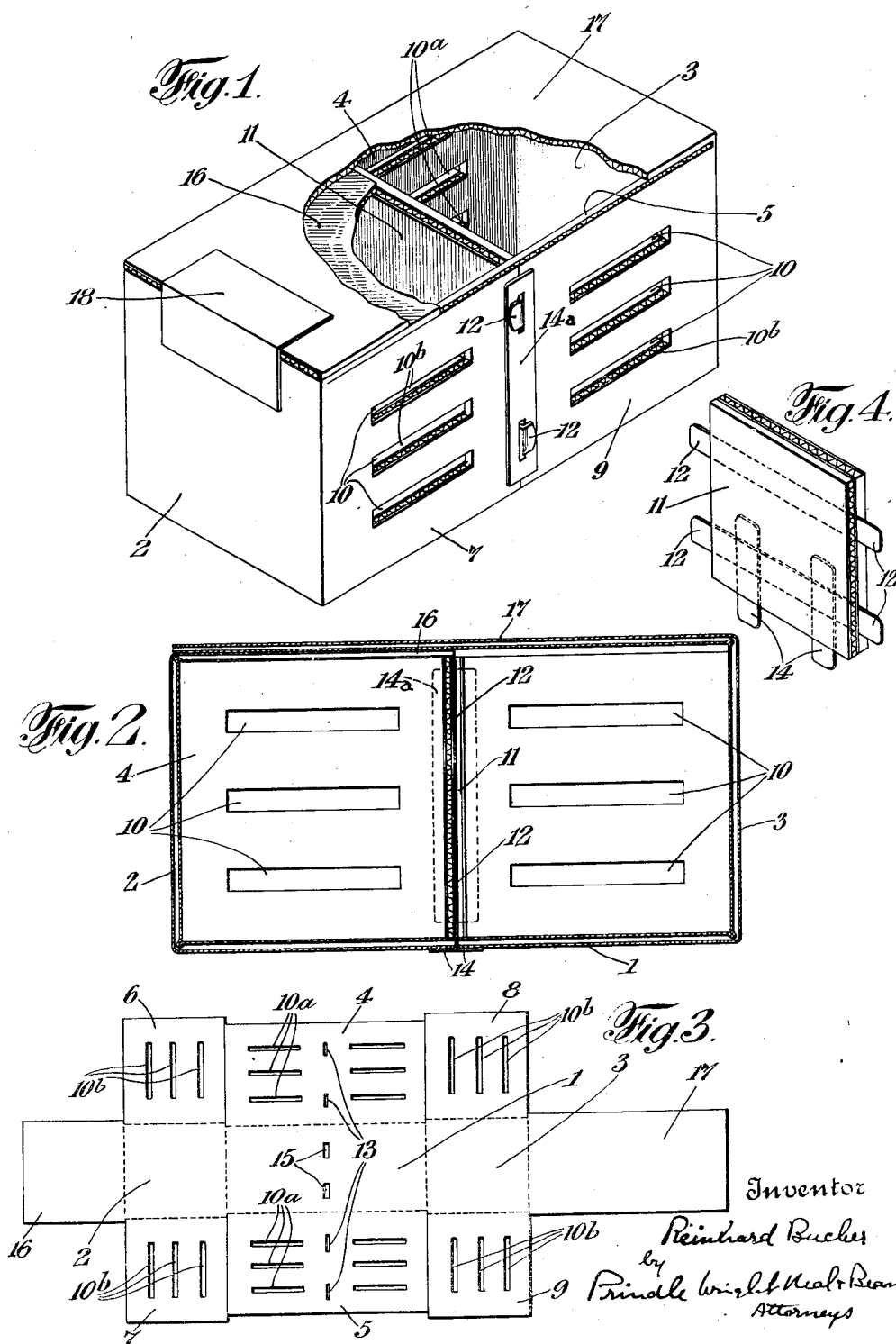
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R. BUCHER

PACKING CONTAINER

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UNITED STATES PATENT OFFICE.

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PACKING CONTAINER.

Application filed August 8, 1925. Serial No. 48,937.

The invention relates to a packing container adapted for shipping fruits and vegetables and for similar purposes, the primary object of the invention being to provide a container made out of corrugated paper, paper board or like material, which will be sufficiently strong, serviceable and economical, and otherwise suitable to enable it to be substituted for the wooden boxes now in general use for such purposes. Further objects and advantages of the invention will be in part obvious and in part specifically pointed out in the description hereinafter contained which, taken in conjunction with the accompanying drawings, discloses a preferred embodiment of the invention. Such embodiment, however, is to be considered merely as illustrative of its principles. In the drawing:—

Fig. 1 is a perspective view, with certain parts cut away, of a packing container constructed in accordance with the invention.

Fig. 2 is a longitudinal vertical sectional view of the container shown in Fig. 1.

Fig. 3 is a developed view of a sheet of material adapted to be shaped into a container such as is shown in Figs. 1 and 2.

Fig. 4 is a perspective view showing detached a strengthening partition which may be employed in such container.

The container proper is preferably made up out of a single sheet of corrugated paper, cardboard or similar material, shaped to make up a box of sufficient structural strength to withstand the rough treatment to which fruit boxes and the like are usually subjected in shipping and handling, the walls of the boxes being preferably cut out at certain points to provide ventilating openings without unduly weakening its walls. The box further preferably has a strengthening central partition which, as hereinafter described, may also be utilized to assist in holding the side walls in proper position.

In the illustrated embodiment of the invention the sheet material out of which the container proper is to be made is first shaped to provide a bottom section 1 for the container, end sections 2 and 3, inner side sections 4 and 5 which extend from the bottom section 1, as well as outer side flaps 6 and 7, extending from the end section 2 and outer side flaps 8 and 9 which extend from the end section 3.

2 and 3 and the side sections 4 and 5, are first folded up at right angles to the bottom section 1 and then the side flaps 6, 7, 8 and 9, are then folded over into position against side sections 4, 5, thus forming side walls for the container which are of suitable thickness and strength.

Preferably the side walls of the box are also provided with ventilating openings 10 formed by providing slots 10^a in the side sections 4 and 5 and slots 10^b in the side flaps 6, 7, 8 and 9, which slots line up with each other when the container is shaped.

The illustrated form of the invention is also provided with a strengthening partition 11, fitted in between the side walls of the container, this partition, as shown, being made up of two thicknesses of corrugated paper with the corrugations running crosswise of each other. The strengthening partition preferably is employed to assist in holding the sides of the box in proper position, as by providing clips 12, consisting of flexible metal strips, in connection with the partition 11, which clips extend between the adjacent ends of side flaps 6, 8, and 7, 9, through slots 13 in side sections 4 and 5 and are folded over on the exterior of the side walls. In cases where the flaps 6, 8 and 7, 9 lie outside of the side sections 4 and 5, as shown, adhesive strips 14^a may also be applied to the meeting ends of flaps 6, 8 and 7, 9. The partition 11 may also be provided with similar clips 14 which extend through slots 15 in the bottom section of the box and have their projecting ends folded over as above described.

The container may also be provided with top flaps 16 and 17 shown in the present instance as extending respectively from the end sections 2 and 3. In the present instance the flap 17 is also shown at full length so that it completely overlies the top of the box and forms the cover therefor, being suitably fastened down in place as by the adhesive strip 18 shown in Fig. 1.

A container constructed along the above lines is economical to manufacture and its reinforced side walls, as well as the strengthening center partition, render it capable of withstanding satisfactorily the rough treatment to which the shipping containers are usually subjected. The openings 10 also provide satisfactory ventilation without unduly weakening the walls of the container owing

In shaping the container the end sections

to the fact that the walls are of double thickness at the points where such openings are located.

5 While a specific embodiment of the invention has been described, it will be obvious that many changes may be made therein without departing from its principles as defined in the following claims.

I claim:

10 1. A container including a bottom, sides and ends, flaps carried by the ends and folded against the sides and having their edges abutting, a partition disposed between the sides, and clips carried by the partition,
15 said clips extending through the sides, and between the abutting edges of the flaps and being bent in opposite directions at an angle to hold the sides and flaps in their said engaged relation.

20 2. A container including a bottom, sides and ends, flaps carried by the ends and folded against the outer faces of the sides and having their edges abutting, adhesive strips secured to the flaps and over the abutting
25 edges thereof, a partition disposed between the sides, and clips carried by the partition and extending through the sides, between the abutting edges of the flaps and through the adhesive strips and being bent
30 in opposite directions at an angle to hold the sides and flaps in their said engaged relation.

3. A packing container formed of sheet corrugated paper or the like and composed
35 of a bottom, ends and sides, the sides being formed of double thickness and being pro-

vided with registering ventilating openings, a combined partition and brace for the sides, and means to connect the partition and brace to each of the sides, said means serving also to hold the two thicknesses of the latter
40 together.

4. In combination with a container having apertures in its sides, a partition composed of a pair of members secured together in
45 face to face engagement and clips having inner ends disposed between the members and having outer ends projecting beyond the members and extending through the apertures of the container sides and bent at an
50 angle to the latter.

5. As a new article of manufacture, a partition for containers composed of a pair of members secured together in face to face engagement and clips having inner ends
55 disposed between the members and having bendable outer ends freely projecting beyond the members.

6. As a new article of manufacture, a partition for containers composed of a pair of
60 members secured together in face-to-face engagement and metal strips secured between and extending across the members and having each of their opposite ends bendable and freely extending beyond the adjacent
65 marginal edges of the members.

In testimony that I claim the foregoing, I have hereunto set my hand this 31st day of July, 1925.

REINHARD BUCHER.