

Nov. 29, 1938.

J. W. HOLMES

2,138,451

PORTABLE CONTAINER HAVING CARRYING FRAME

Filed April 9, 1938

2 Sheets-Sheet 1

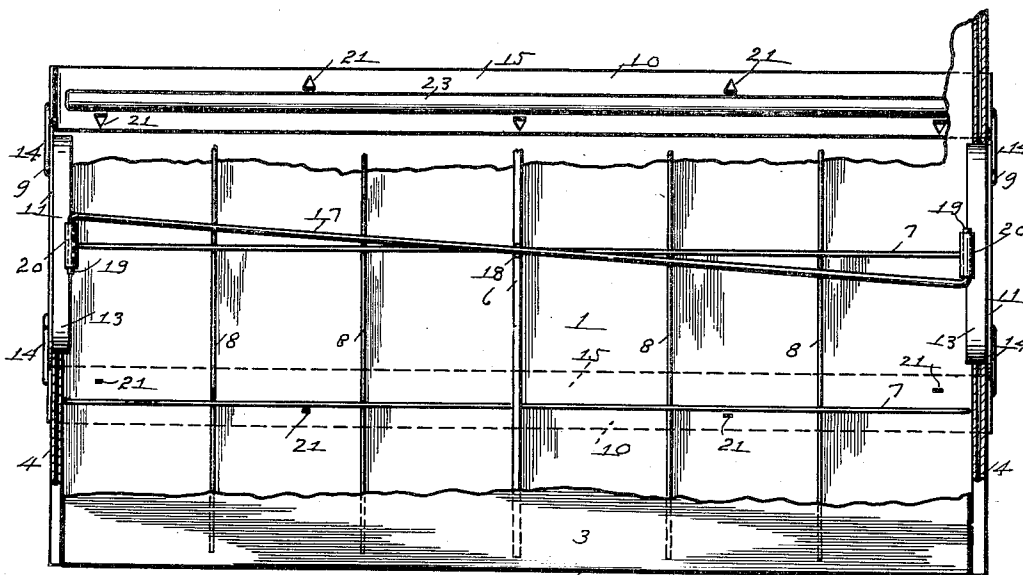
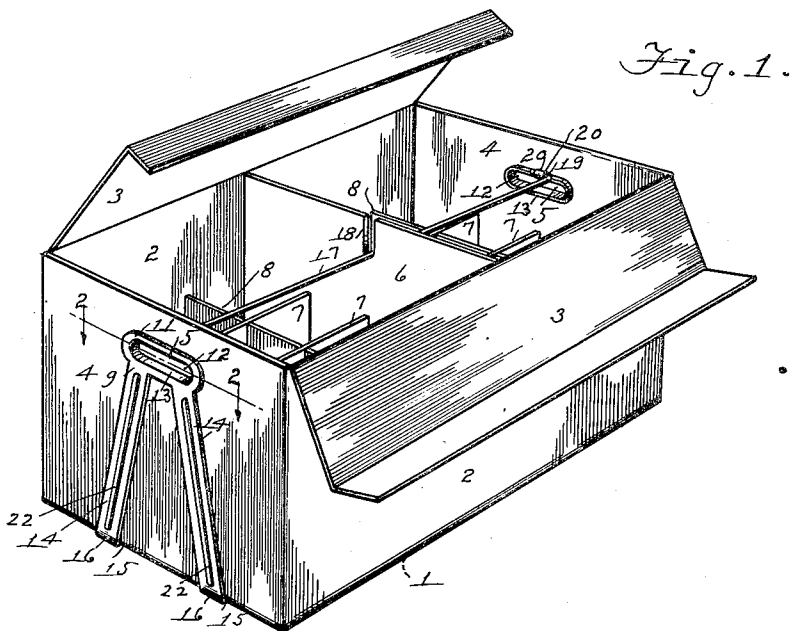


Fig. 2.

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2 Sheets-Sheet 2

Fig. 3.

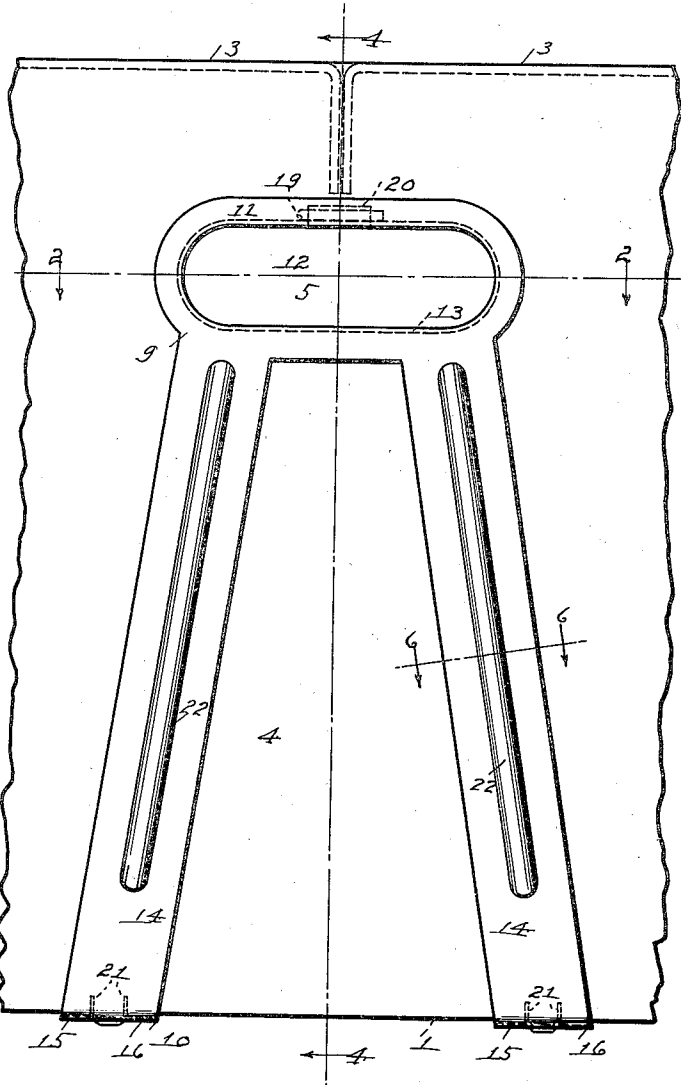


Fig. 4.

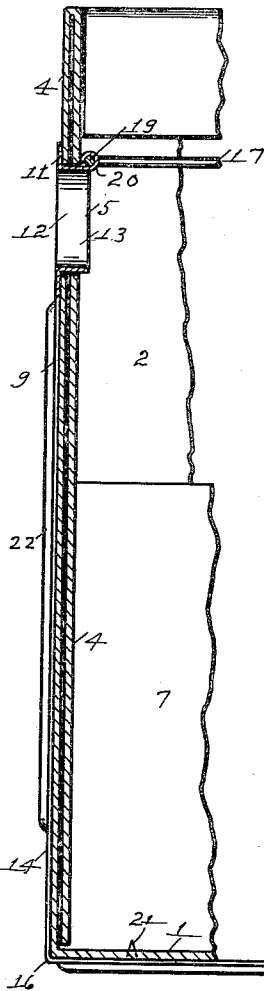


Fig. 5.

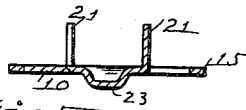
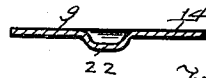


Fig. 6.



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UNITED STATES PATENT OFFICE

2,138,451

PORTABLE CONTAINER HAVING CARRYING
FRAME

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8 Claims. (Cl. 229—52)

The present invention relates to containers, such as boxboard cartons and the like, and particularly to carrying frames therefor; and its object is to provide an improved carrying frame for such containers which shall be very simple and economical in construction and substantial, stable and very efficient for its intended uses and which may be easily applied to the container and as easily removed therefrom when desired.

This and any other and more specific objects hereinafter appearing are attained by, and the invention finds preferable embodiment in, the illustrative structures particularly described in the body of this specification and illustrated by the accompanying drawings, in which:

Figure 1 is a view in perspective of a container—a boxboard carton—with its carrying frame applied thereto;

Figure 2 is a top plan view of parts of the same, certain portions being broken away, certain parts shown in horizontal section taken on line 2—2 of Figures 1 and 3, and one of the flap covers being closed;

Figure 3 is an end view of the carrying frame and of middle portions of the container, the flap covers being shown closed;

Figure 4 is a vertical sectional view thereof taken on line 4—4 of Figure 3;

Figure 5 is a transverse sectional detail view of a portion of the carrier frame taken on line 5—5 of Figure 4;

Figure 6 is a transverse sectional view of a portion of said frame taken on line 6—6 of Figure 3.

In these drawings is illustrated a portable container comprising a box (or container proper) and a carrying frame therefor. The box, being as shown a rectangular carton made of paper boxboard or the like, has a bottom 1, vertical opposite side walls 2 having flap covers 3, and vertical two-ply opposite end walls 4 having apertures 5 therethrough serving as handles for receiving the fingers of a person carrying or handling the same. As illustrated, the box has also partitions 6, 7, 8. The illustrated carrying frame is an integral sheet metal stamping having vertical end parts designated generally 9 extending along the outer sides of, and in contact with, the end walls 4 respectively of the box, this frame having also the horizontal middle part designated generally 10 supporting the box at its bottom. Each of said end parts 9 includes an upper portion 11 having a handle opening 12 therethrough with a surrounding flange 13 extending inwardly into the box's aperture 5 and

includes also a pair of downwardly diverging elongated or strap portions 14; and said middle part includes a pair of spaced parallel elongated or strap portions 15 extending between the pair of portions 14 at one end of the box and the other pair of such portions at the opposite end of the box.

As shown, the frame is bent at 16 to form the opposite end parts 9 extending at right-angles upwardly from the horizontal middle part 10. The box is held thus contained in the carrying frame by a latching rod 17 lying in a vertical slot 18 in the upper edge of the partition 6, this rod extending between the frame's end parts 9 and having oppositely directed hooked ends 19 releasably engaging in hollow keepers 20 on said end parts, i. e., on their flanges 13.

Some of the parts of the frame, as its middle part 10, as shown, have outwardly struck spurs 21 adapted to be thrust into the outer surface of the box as into its bottom 1, when the frame is being applied to the box, for additionally holding the same in fixed position in the frame; and the frame is desirably provided with strengthening ribs such as are shown at 22, 23.

In applying the frame to the box, its end parts 9, which are sufficiently springable, are spread apart so that the flanges 13 may enter the apertures 5, and the hooked ends 19 of the latching rod are inserted into the keepers 20.

It will be seen that this carrying frame, although simple in form and economical in manufacture, is very substantial and stable; that the same may be easily applied to and removed from the box, and when so applied holds the box thus contained within it from sagging downwardly and from bulging outwardly; and that the handle openings 12 with their flanges 13 provide stable handles whereby the container is readily carried and whereby the apertures 5 in the carton are prevented from being torn out.

The invention being intended to be pointed out in the claims, is not to be limited to or by details of construction of the particular embodiment thereof illustrated by the drawings or hereinbefore described.

I claim:

1. A portable container of the class described comprising: a box having a bottom and opposite vertical walls with apertures therein; a carrying frame containing the box having vertical end parts with handle openings and flanges extending inwardly therefrom into the apertures respectively, and having a horizontal middle part supporting the box at its bottom.

2. A portable container of the class described comprising: a box having a bottom and opposite vertical walls with apertures therein; a carrying frame containing the box having vertical end parts with handle openings and flanges extending inwardly therefrom into the apertures respectively, and having a horizontal middle part supporting the box at its bottom; means extending between said end parts for detachably connecting the same.

3. A portable container of the class described comprising: a box having a bottom and opposite vertical walls with apertures therethrough; a carrying frame containing the box having vertical end parts respectively including upper portions with handle openings therethrough registering with said apertures and pairs of elongated downwardly diverging portions, the frame having also a horizontal middle part including a pair of elongated parallel portions supporting the box at its bottom and extending between said pairs of downwardly diverging portions.

4. A portable container of the class described comprising: a box having a bottom and opposite vertical walls with apertures therein; a carrying frame containing the box having vertical end parts with handle openings and flanges extending inwardly therefrom into the apertures respectively, and having a horizontal middle part supporting the box at its bottom, said end parts being springable for yieldingly pressing the flanges into the apertures.

5. A portable container of the class described comprising: a box having a bottom and opposite vertical walls with apertures therethrough; a carrying frame containing the box having vertical end parts with keepers thereon and handle openings registering with the apertures respectively, and having also a horizontal middle part supporting the box at its bottom; a latching rod

extending between said end parts having hooked ends detachably engaging the keepers for holding said end parts against separating movement.

6. A portable container of the class described comprising: a box having a bottom and opposite vertical walls with apertures therethrough; a carrying frame containing the box having vertical end parts with keepers thereon, handle openings therethrough and flanges extending into the apertures respectively, and having also a horizontal middle part supporting the box at its bottom; a latching rod extending between said end parts having hooked ends detachably engaging the keepers for holding said end parts against separating movement and holding the flanges in the apertures.

7. A sheet metal carrying frame for a box having opposite walls with apertures therethrough, said frame having end parts respectively including portions with handle openings therethrough and flanges around the openings and pairs of elongated diverging portions, the frame having also a middle part including a pair of elongated parallel portions extending between said pairs of diverging portions, said end parts being bent at right-angles to said middle part to bring the flanges into entering relation with the apertures respectively.

8. A sheet metal carrying frame for a box having opposite walls with apertures therethrough, said frame having end parts respectively including portions with handle openings therethrough and pairs of elongated diverging portions, the frame having also a middle part including a pair of parallel portions extending between said pairs of diverging portions, said end parts being bent at right-angles to said middle part to bring the openings into registration with the apertures respectively.

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