

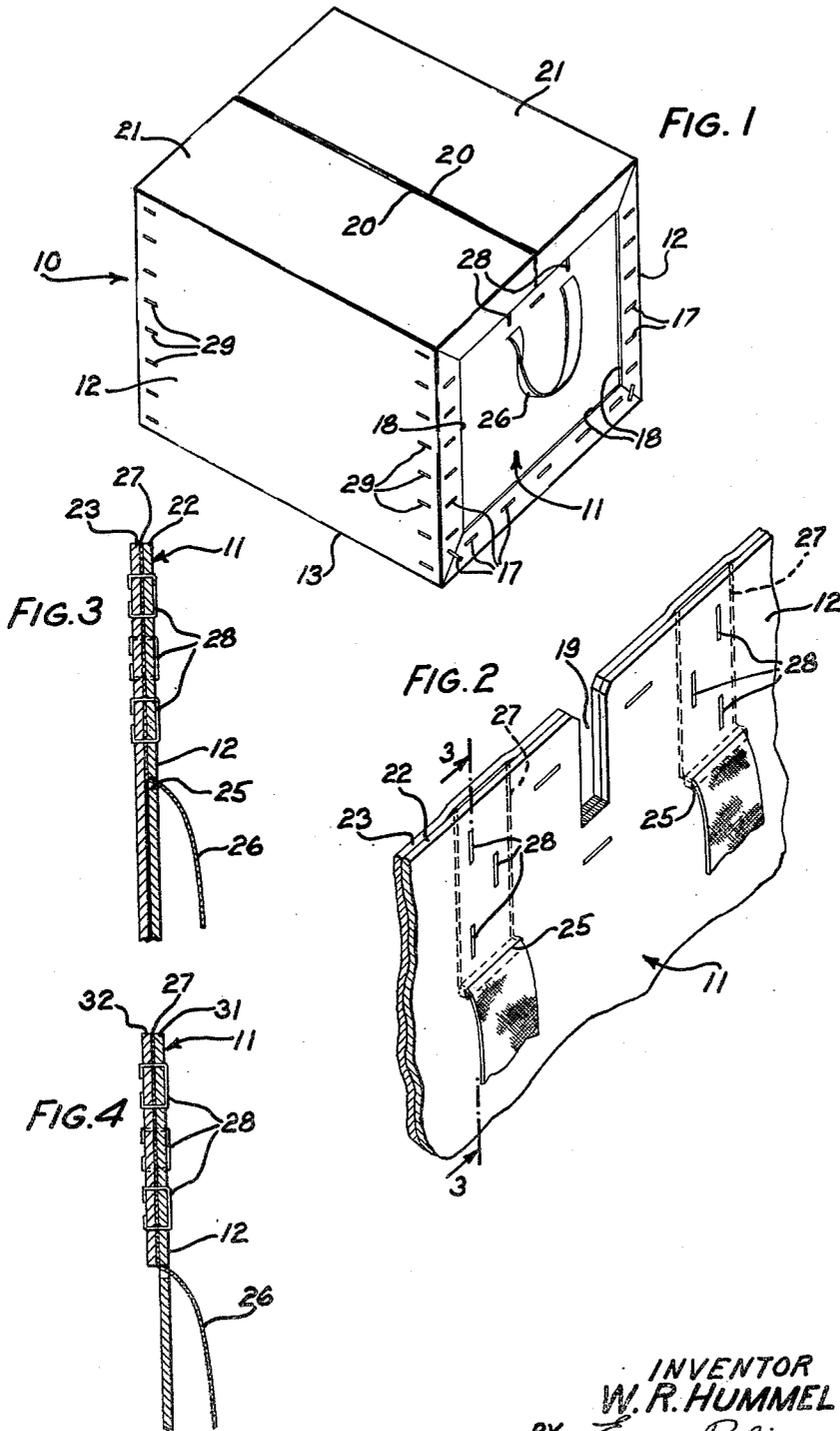
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CONTAINER

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CONTAINER

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3 Claims. (Cl. 229—52)

This invention relates to containers, and more particularly to hand grips or handles and their attachment to containers of the general type disclosed in the C. D. Fallert Patent 2,022,191 of November 26, 1935.

Objects of this invention are to provide a simple, strong and economical handle for containers and practical means for firmly attaching it to the container.

In accordance with the above objects in one embodiment, the invention as applied to containers of the aforementioned type and provided with reinforced end walls composed of inner and outer laminations comprises a handle of strip webbing or other suitable flexible material having its ends inserted through spaced aligned horizontal slots formed in the outer lamination and extending upwardly between the inner and outer laminations to substantially the top edges thereof, the handle ends being firmly secured to the container end wall by stitching or stapling through the laminations and the intermediate portion of the strip forming a looped handle so that when the container is lifted the arms of the loop are turned upwardly to lie substantially parallel to the stapled ends thereof.

Other objects and advantages of this invention will more fully appear from the following detailed description, taken in connection with the accompanying drawing, in which:

Fig. 1 is a perspective view of a container with reinforced end walls having the improved handles attached thereto;

Fig. 2 is an enlarged perspective view of a portion of the container end wall of Fig. 1;

Fig. 3 is a vertical section taken on the line 3—3 of Fig. 2, and

Fig. 4 is an alternative construction of the container end wall with the handle attached thereto.

In the drawing the handle of this invention is shown, for example, as applied to a fibre board container or shipping case 10 of the general type disclosed in the aforementioned patent. Since the container proper is of a well known type and forms no part of the invention only such parts thereof are illustrated and will be referred to herein, which are necessary to a full understanding of the present invention. Referring to the drawing, one of the oppositely disposed end walls of the container is indicated at 11 and is secured to opposite side and bottom walls 12 and 13, respectively, by staples 17 passed through angular end portions 18 of the side and bottom walls, which overlies the outer surface of the end wall.

Formed in the upper edges of each of the container end walls intermediate the side walls is a vertically extending slot 19 (Fig. 2) for receiving side flanges 20 of oppositely disposed cover panels 21 integrally hinged to the container side walls. The container end wall 11 preferably comprises in the present embodiment at least two laminations 22 and 23 of fibre board and formed in the outer lamination 22 below the bottom of the slot 19 and similarly spaced at each side thereof are aligned horizontally extending slots 25.

A U-shaped handle 26 is attached to the end wall 11 and is composed of strip webbing of the required strength or other suitable flexible material of sufficient length having its ends 27 first threaded through the slots 25 in the outer lamination 22 of the end wall 11 and then turned so that they extend in parallel relation toward the adjacent upper edge of the lamination for a desired distance and abutting the inner surface thereof. With the handle ends 27 and the outer lamination 22 assembled in this manner the inner lamination 23 of the end wall is laid against the parallel ends of the handle and the elements are firmly secured together at equally spaced staggered points at each handle end 27 by staples 28 extending through the two end wall laminations and the handle ends. In use when the container 10 is lifted the arms of the U-shaped handle 26 are turned upwardly and lie substantially parallel to the stapled inner ends 27 thereof. The inner end wall lamination 23 is provided with angular end portions (not shown) which are attached to the side walls 12 by staples 29 which, taken with the securing of the angular end portions 18 of the side walls to the end wall 11 by the staples 17, provides a very efficient attachment of the end wall 11, carrying the handle 26, to the side walls 12.

Fig. 4 illustrates an alternative construction of the container end wall 11 for attaching the improved handle 26 thereto wherein the end wall comprises an outer thickness of fibre board 31 and an inner reinforcing strip 32 extending downwardly from the upper edge of the board 31 to the top of the slots 25 therein. The handle ends 27 are arranged between the fiber board 31 and the strip 32 and secured together by staples similar to the construction hereinbefore described. Although not shown, the strip 32 is preferably formed with angular end portions which may be secured to the side walls of the container by staples.

From the foregoing description, it will be ap-

parent that a simple, strong and flexible handle and a practical means for firmly securing it to a container, particularly a container of fibre board construction is provided whereby containers so equipped, due to the flexibility of the handles and the minimum of space occupied thereby permits the containers to be stacked in close arrangement. Furthermore, a handle of the type described provides a very comfortable and sure hand grip for lifting a container.

It will be understood that the embodiments herein described are merely illustrative of the invention and one application thereof, the invention being limited only by the scope of the appended claims.

What is claimed is:

1. In a container, an outer end wall provided with horizontal aligned slots, a separate inner reinforcing end wall abutting said outer end wall, a handle of strip flexible material having opposite ends threaded exteriorly through said slots and extending between and toward the upper edges of the walls and arranged in parallel relation, said end walls and handle ends terminating at their upper edges in a common plane, and a plurality of equally spaced and staggered staples extending through the outer and inner

walls and each threaded handle end for attaching the latter to the walls.

2. In a container, an outer wall provided with horizontal aligned slots, a handle of strip flexible material having opposite ends threaded through said slots and turned to lie against the surface of the wall, an inner end wall abutting the handle ends and said outer wall, said end walls and handle ends terminating at their upper edges in a common plane, and means extending through the outer and inner walls and handle ends for securing said elements together.

3. In a container, a wall comprising separate inner and outer laminations of fibre board, said outer lamination provided with horizontal aligned slots, a U-shaped handle of strip textile material having opposite ends threaded exteriorly through said slots and extending toward the upper edge of the wall between the inner and outer laminations thereof and arranged in parallel relation, said wall laminations and handle ends terminating at their upper edges in a common plane, and means extending through the wall laminations and handle ends for attaching the latter to the wall.

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