

June 28, 1960

M. W. KUCHENBECKER

2,942,769

RECEPTACLE

Filed Jan. 13, 1958

2 Sheets-Sheet 1

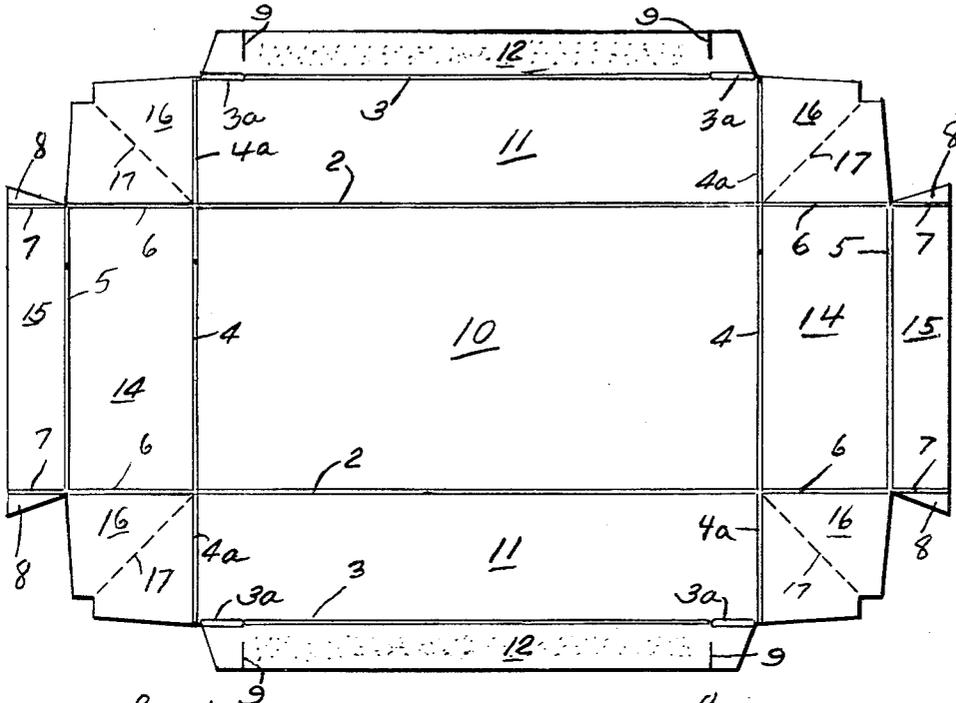


Fig. 1

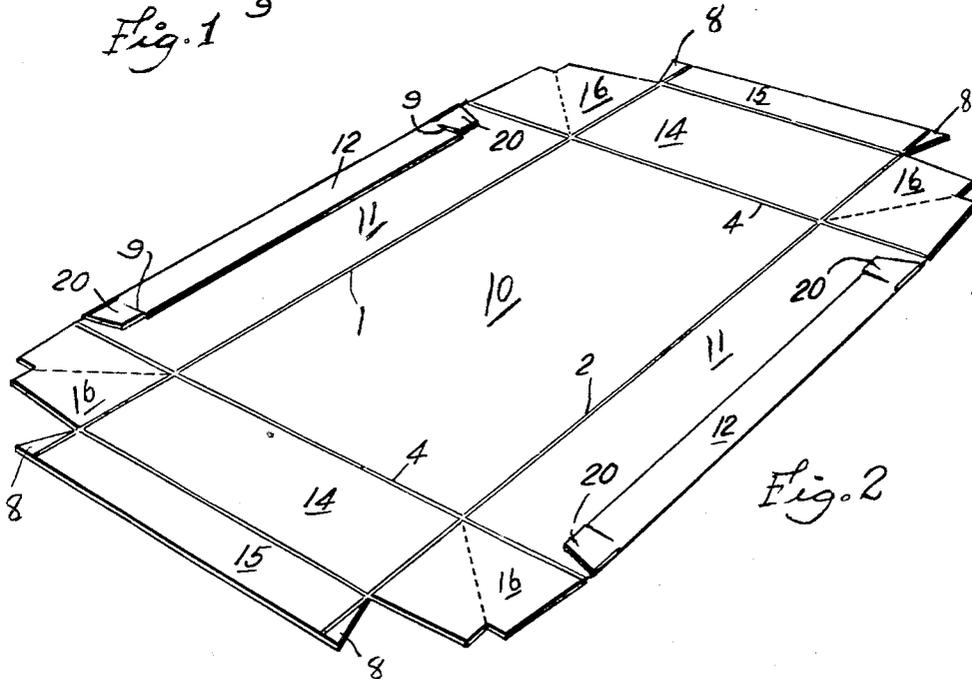


Fig. 2

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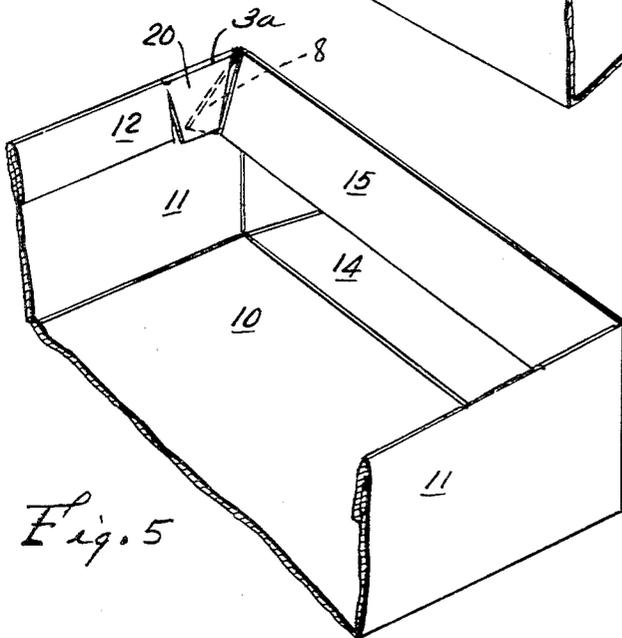
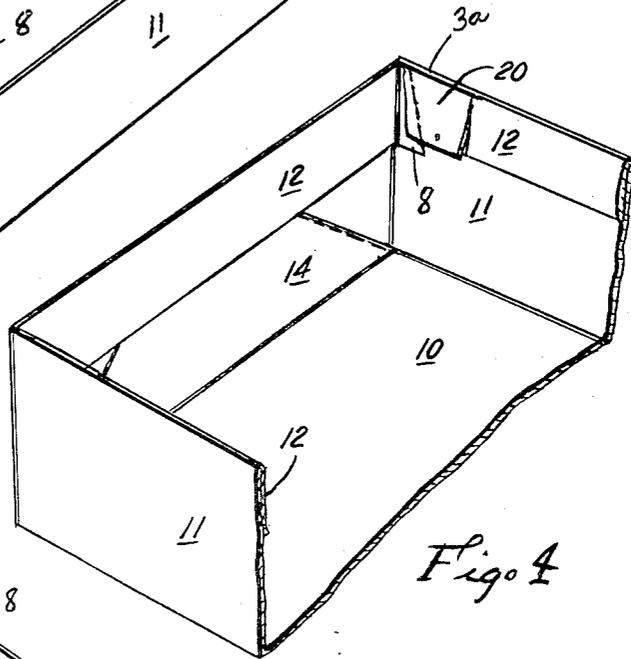
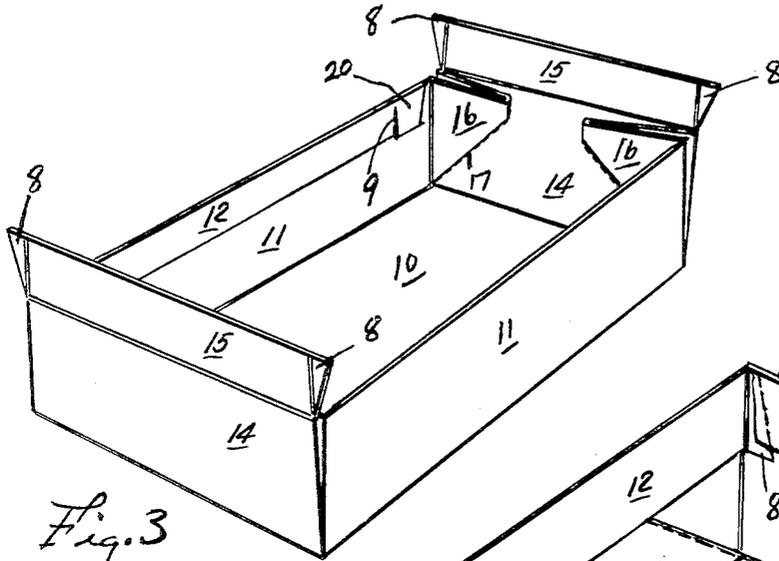
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2 Sheets-Sheet 2



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RECEPTACLE

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2 Claims. (Cl. 229-31)

This invention relates to a receptacle made from a single blank of flexible sheet material, such as paper, suitably cut, scored and glued which is adapted to be readily set up from its flat condition to form a receptacle.

Further details and advantages of this invention will be apparent from the following description and accompanying drawings, wherein:

Figure 1 is a plan view of a paper cardboard blank suitably cut and scored,

Figure 2 is a plan view of the same blank having two opposed panels folded over and adhered,

Figure 3 is a perspective view of the blank in partially set-up condition,

Figure 4 is a fragmental perspective view of one end of the completely set-up receptacle shown in Figure 3, and

Figure 5 is a fragmental perspective view of one end of the set-up carton as seen from another position.

Referring to the drawings, the receptacle is formed from an integral blank, shown in Figure 1, made of suitable flexible sheet material, such as paper, metal foil, plastic and the like, of suitable thickness and dimensions, dependnig upon the desired dimensions of the set-up receptacle. The blank is scored along the lines indicated by numerals 2 to 7 to provide a bottom wall 10 having hingedly connected opposed side walls 11 and end walls 14. Locking panels 15 are hingedly connected to end walls 14 along score lines 5. Locking panels are provided with extending triangular locking tabs 8 at the ends thereof. Side walls 11 are provided with reinforcing panels 12 connected along score lines 3 which terminate for a short distance at their ends with relatively extra wide score lines, indicated by numerals 3a, which are at least twice as wide as the score lines 3 for a purpose to be explained later. Reinforcing panels 12 are adhered to the adjacent surfaces of the respective side walls 11 except at the areas beyond the cut lines 9 which are unadhered. This structure provides retaining tabs 20 which tend to hinge upwardly along the relatively wide score lines 3a when the receptacle is set up. Panels 12 are provided adjacent their ends with cut lines 9 extending to the free edges thereof. These cut lines form retaining tabs 20 which have a function to be described later. Side walls 11 and end walls 14 are connected by flaps 16 which are provided with diagonal spaced score lines 17 along which flaps 16 are adapted to be folded inwardly of the receptacle as shown in Figure 3.

In setting up the receptacle from the blank shown in

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Figure 2, the side walls 11 are first folded up along score lines 2 at right angles to the bottom wall 10, as shown in Figure 3. The end walls 14 are then folded up along score lines 4 and at the same time flaps 16 are folded inwardly, as shown in Figure 3. The upwardly extending locking flaps 15 are then folded inwardly of the container whereupon the triangular locking tabs 8 are automatically positioned underneath the retaining tabs 20 which are formed by slits 9 in the inner reinforcing panel 12, as shown in Figures 4 and 5. The relatively wide score lines 3a on which the retaining tabs 20 are hinged tend to normally urge the tabs 20 away from the adjacent side walls 11 when the receptacle is set up, thereby facilitating the positioning of the locking tabs 8 therebeneath. The container is now in fully set-up condition and will not collapse since the locking tabs 8 are securely retained beneath the tabs 20.

It will be apparent that the receptacle can be set up quickly as described for receiving any suitable contents therein or for serving as a telescoped cover for a similar receptacle.

I claim:

1. A substantially rectangular unitary blank suitably cut and scored to form a receptacle, said blank comprising a bottom wall, an opposed pair of side walls hinged to the side edges of the bottom wall, an end wall hinged to an end edge of the bottom wall, connecting flaps connecting adjacent ends of the side and end walls and diagonally scored to facilitate infolding thereof, a locking panel hinged to the remote side edge of the end wall and having a locking tab hinged to each end thereof, reinforcing panels hinged to the remote side edges of the side walls, and a retaining tab formed from the end portion of each reinforcing panel adjacent said connecting flaps by a cut line, the cut line extending substantially into the panel from the free side edge thereof but terminating substantially short of the hinge connection of the reinforcing panel to a side wall, said reinforcing panels being folded over onto the interior surface of the side walls to which they are connected and being adhered to said walls inwardly of said cut lines, the retaining tabs being unadhered to said side walls, and the end portions of the retaining tabs being substantially cut away to accommodate positioning of the locking tabs therebehind when the blank is erected to form a receptacle.

2. A blank according to claim 1, in which the hinge connections of the retaining tab portions of the reinforcing panels to the side walls are of greater width than the hinge connections of the major portion of said reinforcing panels, whereby when said panels are folded over the side walls the retaining tabs tend to stand away from the side walls.

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