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E. J. RAU

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CELLULAR PAPER BOARD CONTAINER

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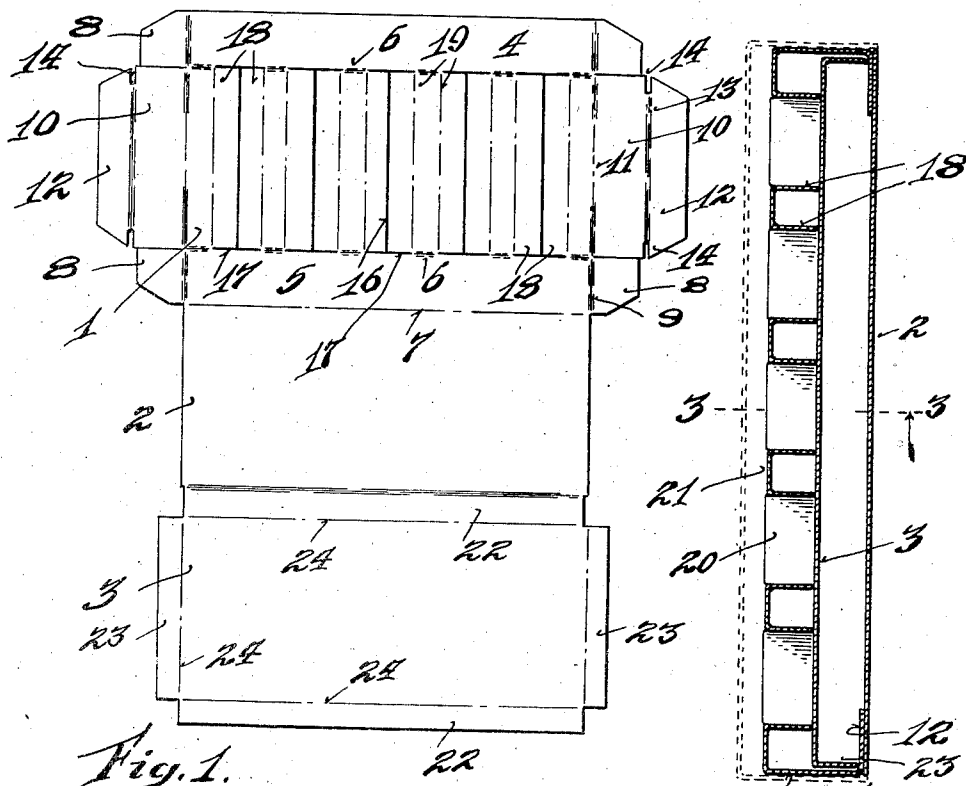


Fig. 1.

Fig. 2.

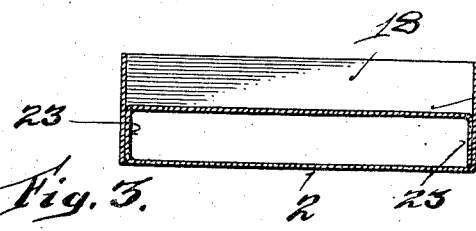


Fig. 3.

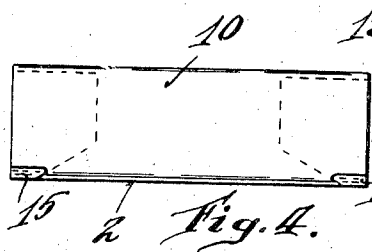


Fig. 4.

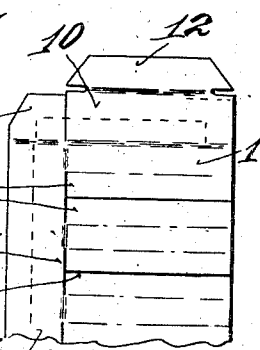


Fig. 5.

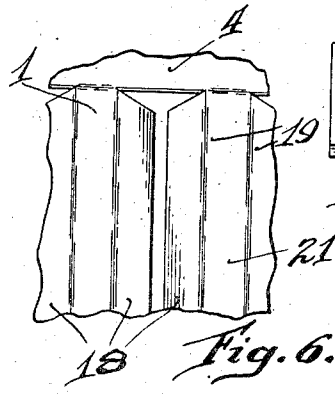


Fig. 6.

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CELLULAR PAPERBOARD CONTAINER

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1 Claim. (Cl. 229-28)

This invention relates to a card or paper board box or container collapsible or knock-down into a flat condition for storage and shipment.

The invention primarily is directed to a contents holding section of a box or container, of cellular interior structure particularly adaptable for packaging disk-like tokens or coins, in a plurality of groups in spaced parallelism.

An object of the invention is to provide a card or paper board container, preferably formed from a single sheet, with sections or portions of a wall foldable inwardly to subdivide the interior of the container into a plurality of merchandise receiving cells open to the upper face side of the container.

Another object is to provide a card or paper board container of cellular structure when in an erected condition and capable of folding to a flat or knock-down position for storage or shipment.

Another object is to provide a card or paper board container of cellular structure, the cells arranged in spaced parallelism across one dimension of the container, each for packaging coins or tokens in stack assembly, the unit also having service as a rack for individual withdrawal and deposit of the coins from the cells respectively.

Various other features and advantages of the invention will be more fully set forth in the following description of the accompanying drawing forming a part hereof, depicting a preferred embodiment, in which:

Figure 1 is a plan view of the blank of the contents holding section of the container.

Figure 2 is an enlarged central section of the container section in its erected position with the open or face side sealed by a closure of cover section shown in dotted lines.

Figure 3 is a section on line 3-3, Figure 2.

Figure 4 is an end view of the container section.

Figure 5 is a plan view of a portion of the container in a flat or collapsed position.

Figure 6 is a plan view of a position of the top panel of the container.

Referring to the drawing, the container section, as illustrated in Figure 1, comprises a single sheet blank, cut to a definite outline pattern and scored and slitted to provide a panel 1, for the top of the container, an intermediate panel 2, representing the bottom of the container and a third panel 3, extending intermediate of the top and bottom panel in the erected position of

the container and providing a base for the cells or partition wall.

A pair of side walls 4 and 5, extend longitudinally of and join respectively with the relative opposite sides of the top panel 1, the juncture being segmentally scored and slitted lines 6, 6, and along which the side walls are bent perpendicularly or at right angles to the panel when erected. The side wall 5, at its opposite edge joins with the bottom panel 2, the juncture being defined by the scored line 7.

The side walls 4 and 5, each at its opposite ends, respectively, is provided with a corner tucking flap 8, to extend laterally from the wall and the juncture therewith is definitely a scored line 9. The panel 1, at each of its opposite ends respectively joins with an end wall 10, the juncture defined by a scored line 11, along which the wall is bent at right angle or lateral to the top panel. Each end wall 10, at its outer end, carries a tucking flap 12, bendable laterally along a scored line 13, as the juncture of the end wall and flap.

Each end wall and its tucking flap connected thereto, at the opposite ends or margins thereof are separated by an inwardly extended notch 14, for the protrusion therethrough of the lower short length margin 15, of a relative corner flap 8, for locking the tucking flap in its tucked-in position, as shown in Figure 4, holding the end wall of the container securing in its closed position.

The top panel 1, is provided with a plurality of relatively transverse and intersecting set of slits 16 and 17, with the sets at determined or uniform intervals apart for the length of the panel. The slit 16, for each set extend cross-wise of and for the full width dimension of the panel and at its opposite ends respectively, centrally joins with the slits 17, segmental of and coincident with the longitudinal ends of the panel. The opposite ends of segment slits 17, of each set provide terminals for the opposite ends of relative scored lines 19, extending cross-wise of the panel and in parallelism with the central cross slit 16, thereby form a pair of opposing flaps 18, adapted to be turned or folded inwardly of the container at right angles to the normal plane of the panel of which they constitute a part, each pair to form side walls of a cell 20, the side walls 4 and 5 of the container forming the end wall of the cells. The portion 21, of the panel connecting the flaps of adjoining sets, determines the spacing of the cells and provide bridging struts for the top of the con-

tainer which are re-inforced by the cell forming flaps in their set-up or erected position giving stability to the structure.

The third or partition panel 3, is provided with opposite side flaps 22, and end flaps 23, the junction of the flaps with the panel being defined, respectively, by the scored lines 24, with one of the side flaps 22, intermediate of and serving a union for the bottom panel 2, and partition or cell base panel 3. The end flaps 23, and the side flaps 22, fold laterally from the panel to lie adjacent at relative end of a side wall of the container and sustain the cell base panel from opposite sides in a definite location between the top and bottom panels, the spacing between it and beneath the cells, accessible from the opposite ends and is sealed by the end closure flaps or walls.

In the folded assembly of the blank, the side flaps 22, of the partition or cell base panel 3, are adhesively and permanently secured, respectively with relative side walls 4 and 5 of the container, which permits the container to be folded to a flat collapsed position as shown in Figure 5, with the cell forming flaps lying in plane with the panel of which they compose a part.

The location of the cell base panel determines the depth of the cells and is governed by the distance that it is desired to have the coins extrude or project above or beyond the plane of the top of the container, for convenience in access in depositing or withdrawing the coins from the cells, either in a group or individually.

The lower compartment may be utilized for packaging the coins promiscuously or for other classes of merchandise.

The container can be conveniently used as a rack by resting or supporting the same in a slightly angular or oblique position.

The open side of the container may be sealed by a four-sided closure or cover section, telescopically engaged over the contents holding section and of conventional type of construction,

adapted to be collapsed to a flat position, and as its style of construction forms no part of the present invention, no detail disclosure and description thereof, is made herein. It may also be of tubular or sleeve form characteristic of a slide-on type of cover.

It is within the concept of the present invention to provide the base panel 2, with cell forming flaps, correspondingly with the top panel for multiplying the cell capacity of the container and a suitable structure of cover for sealing both sides.

In the foregoing description and claim, the terms "side" and "end walls" are used as convenient expressions for differentially designating the various parts without intent to indicate any dimension characteristics.

Having described my invention, I claim:

A card or paper board container, comprising: a single blank scored for folding and to subdivide the same into three panels, in a consecutive order in one dimension of the blank and to constitute a top, a bottom and a partition panel for the container, side and end walls for the container in union with the top panel and side and end flaps in union with the partition panel, a relative side wall of the top panel and side flap of the partition panel in union with the bottom panel, the partition panel positioned within the container with the side flaps thereof providing a support therefor and respectively adhesively secured, each to the inner side of a relative side wall of the container, the end flaps connecting respectively with the opposite ends of the partition panel foldable at right angles thereto each, respectively providing an end closure for the compartment formed by said bottom and partition panels and the top panel slitted to provide plural pairs of opposing flaps, the flaps depressible from the plane of the panel inwardly of the container, each pair to form a cell with the partition panel as a base for all of the cells.

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