

Dec. 24, 1929.

M. M. MICHELIN

1,740,550

CONTAINER OR CARTON

Filed July 6, 1927

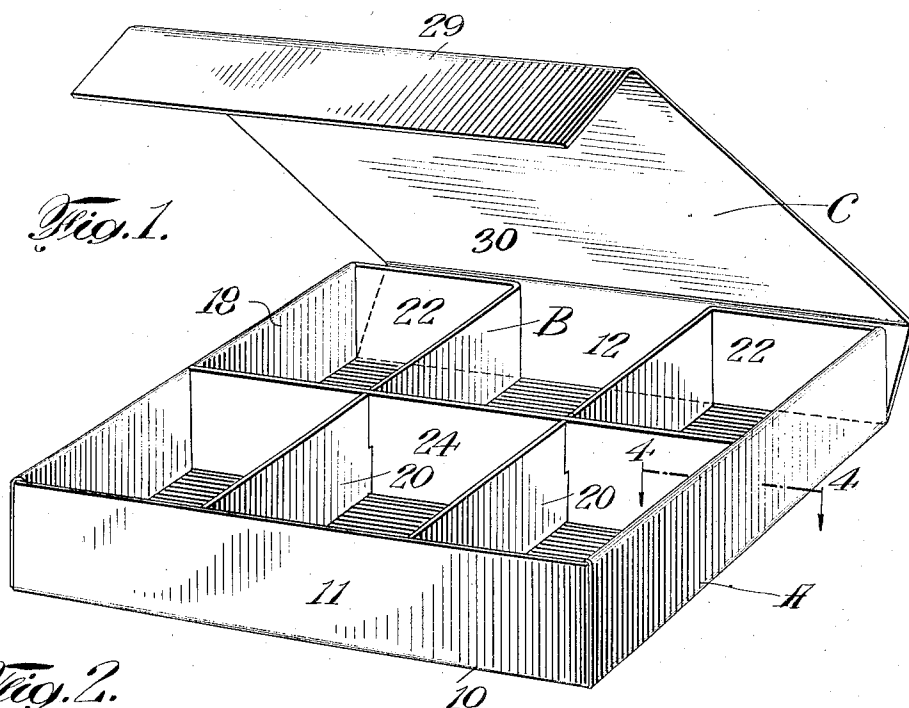


Fig. 2.

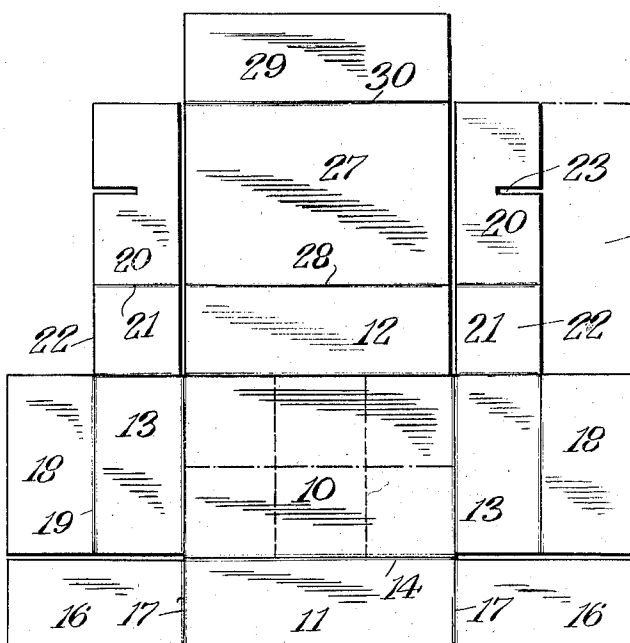


Fig. 3.

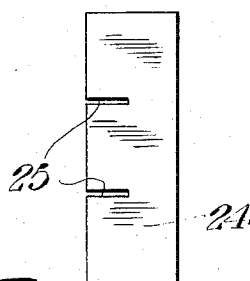
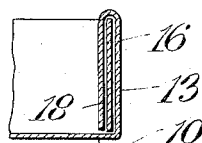


Fig. 4.



Inventor

Marcel M. Michelin

By

Attorney

Hoquet & Neary.

UNITED STATES PATENT OFFICE

MARCEL M. MICHELIN, OF STATEN ISLAND, NEW YORK, ASSIGNOR TO PINAUD INCORPORATED, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK

CONTAINER OR CARTON

Application filed July 6, 1927. Serial No. 203,749.

The invention relates to boxes and more especially to foldable nesting boxes, containers or the like.

In the manufacture of boxes, containers or the like of the foldable styles, wherein the articles to be held thereby will be nested in compartments or pockets, the cost for production is extremely high, due to the fact that this particular box, container or the like in the making demands considerable material and various independent operations, as the interior nest requires separate units and their formation with accuracy, and likewise the body requires various parts and the folding of the same for the interfitting of both nest and body during assemblage in the setting up of the box or container for use.

It is the aim of the present invention to construct a box, container or the like, wherein its body and nest can be made from a single piece of material and in a single operation, thereby bringing the cost of production to a minimum and without any waste of material in the production of the same.

Another aim of the invention is to have the box, container or the like when in set up condition with a plurality of compartments or pockets for the reception of goods therein singly in the respective compartments or pockets, thus protecting the goods from contact with each other and without liability of said goods falling out of the respective compartments or pockets on the opening of the lid or cover, as the compartments will be permanently walled at all sides of the box, container or the like when said lid or cover is raised to open position.

A further aim of the present invention is to provide a box, container or the like with reinforced walls in the body of the same, and the said body and nest within the latter a unitary structure, thereby materially strengthening said box, container or the like and the said nest serving to maintain the body of the box in set up condition.

The box, container or the like in its make up will withstand rough handling during transportation and will completely house the goods within in their nested condition without liability of breakage during transit, the

goods being readily accessible on the opening of the box, container or the like.

With these and other objects in view the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described in detail, illustrated in the accompanying drawing and pointed out in the claims hereunto appended.

In the accompanying drawing:

Figure 1 is a perspective view of the box, container or the like constructed in accordance with the invention showing its lid or cover in raised position.

Figure 2 is a plan view showing the box, container or the like knocked down and in flat condition.

Figure 3 is a plan view of one of the partitions of the nest removed from the box, container or the like.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawing in detail, the box, container or the like is preferably made from a single piece of material such as card board or other fibrous semi-rigid kind, yet it may be made from any desirable material cut and folded to provide a body A, interior nest B and a swinging lid or cover C, these being hereinafter more fully described.

The body A comprises a bottom 10, front and rear walls 11 and 12 respectively and end walls 13, which walls are foldable along weakened or creased lines 14 and 15 respectively. At opposite ends of the front wall 11 are extensions 16, these being foldable along weakened or creased lines 17 and are adapted to coincide with and lie against the inner faces of the end walls 13 and be maintained in such position by retaining flaps 18, these being extended from the end walls 13 and are foldable along weakened or creased lines 19. The retaining flaps 18 are folded inwardly and downwardly on the weakened or creased lines 19 to overlie the extensions 16 which will be disposed between the end walls 13 and said flaps 18 and in this manner interfitted therewith. It will be seen that the end walls 13 will be materially reinforced in

the interfitting of the extensions 16 between the same and the flaps 18 when folded inwardly and downwardly interiorly of the body A.

5 Formed on the end walls 13 at the rear extremities thereof are nest partitions 20, which are formed with weakened or creased lines 21 transversely disposed of the same and spaced the required distance from the rear
10 extremities of the end walls 13 so that on the folding of the partitions 20 upon the weakened or creased lines 21, the said partitions will be disposed in spaced parallel relation to each other and extending from the
15 front wall 11 to the rear wall 12 of the body A with the portions 22 of said partitions 20 located in confronting relation to the rear wall 12, as is clearly illustrated in Figure 1 of the drawing.

20 The partitions 20 are formed with slits 23 located medially with respect to the length of said partitions and opening through the upper edges thereof. Said slits 23 extend only partially the depth of the partitions 20
25 for the interlocking with said partitions of a divider or separator strip 24, the latter being formed with a pair of spaced slits 25 which extend only partially through the same and open through the bottom edge
30 thereof. This strip 24 is engaged with the partitions 20 by registering the slits 25 with the slits 23 formed in said strip and partitions respectively, and on depressing the
35 strip 24 the same can be interlocked with the partitions 20 and in the interlocked engagement thereof there will be presented at the interior of the body A a series or group of
40 separate compartments or pockets 26 to receive articles and hold the same confined singly therein.

On the rear wall 12 is a lid or cover C forming a section 27, the same being foldable along a weakened or creased line 28 so that the said section can be swung to open or
45 closed positions, while on the said lid or cover section is a tongue 29, the same being foldable along a weakened or creased line 30, whereby the said tongue may be tucked between the front wall 11 of the body A and
50 the nest B within the latter and thus maintain the lid or cover section in closed position, the tongue 29 being frictionally held engaged between the front wall 11 of the body A and the nest B within the latter.

55 It will be apparent that the rear wall 12 of the body A will overlap the portions 22 of the partitions 20 and also constitute a closure for one of the compartments or pockets 26 at the rear of the body A of the box
60 and in this manner the said rear of the body will be reinforced and the nest B completely closed at all sides of the compartments or pockets therein so that there will be no liability of the goods contained slipping or fall-
65 ing therefrom when the lid or cover C is

being raised or swung to open position. The goods or articles will be securely confined in the nest B by reason of the arrangement of the partitions 20, portions 22 thereof, strip 24 of the nest and the rear wall 12 of the body A respectively.

70 It will be obvious from Figure 2 of the drawing that the body A and portions of the nest B will be formed from a single piece of material capable of being stamped and cut therefrom in a single operation, as the strip 24 in the blank or single piece occupies the
75 space next to either partition 20, its portion 21 and the flap 18, without any waste of material, and the nest B in its major portion is a continuation or unitary part of the body A, the only independent or separate part of
80 such nest being the strip 24. In the formation of the nest B within the body A, the latter will be maintained securely set up, and likewise the nest, and goods or articles placed within the compartments or pockets
85 26 constituted by the nest will be separated from each other to avoid contact, and will be firmly confined to assure safety in shipment and also to eliminate displacement of the articles or goods or the falling of the same
90 from the body A when the lid is open.

The partitions 20 when interlocked with the strip 24 will be held in spaced parallel relation and said partitions and strips in
95 crossed disposition one to the other.

What is claimed is:

1. A box of the kind described formed from a blank having a flat bottom and front, end and back walls folded up from the bottom, extensions on the ends of the front wall and foldable against the inner faces of the end walls, flaps extending from the end walls and foldable inward and
100 downward over the first said extensions, and extensions on the rear ends of the end walls foldable toward each other to engage inner portions adjacent to the ends of the back wall and forwardly to provide spaced par-
105 titions in the box, said partitions each having a slit extending downwardly from its upper edge, and a separate partition strip having upwardly extending slits whereby said strip may be engaged with said forwardly extending partitions to lock them in
110 position and provide a longitudinal partition with its ends engaging the flaps on the end walls, thereby interlocking the various parts in the box and maintaining it assembled for use.

2. A folding box having a series of compartments therein which comprises a body portion having integrally connected compartment wall members and integrally connected
125 reinforcing end members, and a separate partition member forming a wall of each of the said compartments and holding the reinforcing end members in place in the folded box.

3. A folding box having a series of compartments therein which comprises a body portion having integrally connected compartment wall members and integrally connected reinforcing end members and a separate partition member engaging said compartment wall members to provide mutual support and to hold the reinforcing end members in place.

4. A folding box having a series of compartments therein which comprises a body portion having integrally connected compartment wall members and integrally connected reinforcing end members, a separate partition member forming a wall of each of said compartments and holding the reinforcing end members in place in the folded box, and means for interlocking the said compartment wall members with said separate partition member to provide mutual support and to rigidly hold said compartment wall members in place.

5. A box of the kind described formed from a blank having a flat bottom and front, end and back walls folded up from the bottom, extensions on the ends of the front wall and foldable against the inner faces of the end walls, flaps extending from the end walls and foldable inward and downward over the said extensions, extensions on the rear ends of the end walls foldable toward each other and forwardly to provide spaced partitions in the box, a separate partition member engaging said spaced partitions to hold said partitions in place and extending into contact with and holding the said flaps in place in the folded box.

In testimony whereof, I have signed my name to this specification this 5th day of July, 1927.

MARCEL M. MICHELIN.