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DISPENSING BOX

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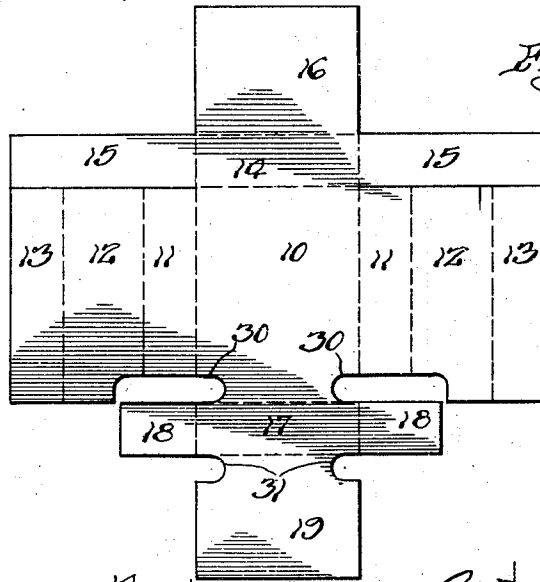


Fig. 2

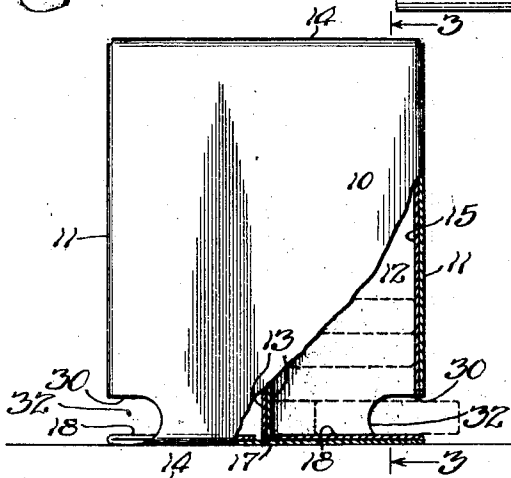


Fig. 3

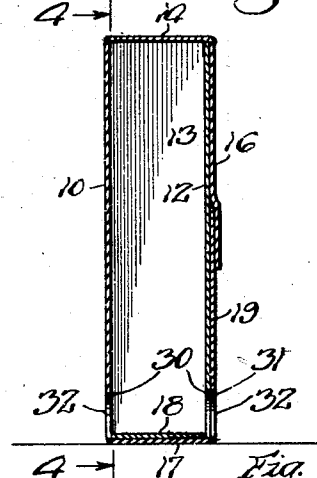


Fig. 4

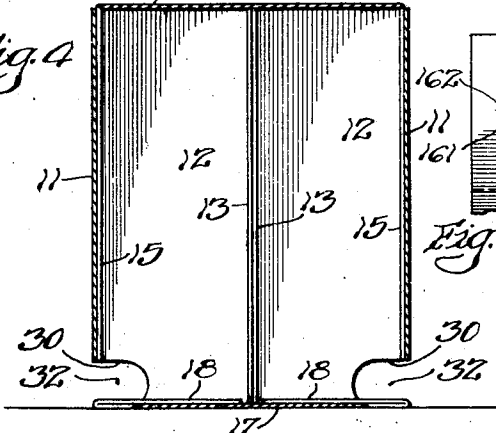
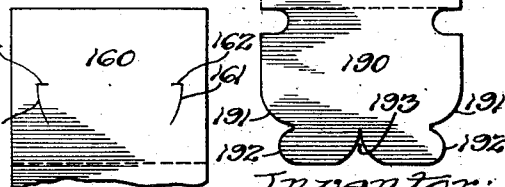


Fig. 5



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DISPENSING BOX

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The present invention relates to a dispensing carton, and has particularly to do with a device providing a dispensing part and at the same time serve as a convenient compartment container.

The objects of the present invention include, among others, the following:

A new and improved type of compartment container.

10 An unique dispensing device wherein a plurality of packages may be stored, to be removed from the device one at a time.

An unique blank for forming a dispensing compartment box.

15 These, and such other objects as may hereinafter appear, are obtained by the novel construction, unique arrangement and improved combination of the several elements which are combined in the invention, a single embodiment of which is illustrated in the accompanying drawings, in which:

Figure 1 is a plan view of a blank which may be used for producing one of the devices herein described;

25 Figure 2 is an elevation of a box formed from the blank shown in Figure 1, parts being in section to illustrate the manner of folding;

30 Figure 3 is a section on the line 3—3 of Figure 2;

Figure 4 is a section at right angles thereto and on the line 4—4 of Figure 2;

35 Figure 5 is a fragmentary plan view of a modified blank for forming half of a side member; and

Figure 6 is a similar view of a modified blank for forming the other half of said side member.

40 Like reference characters are used to designate similar parts in the drawings and in the description of the invention which follows.

In said blank, which may be of cardboard or other suitable material, there is a generally rectangular section 10 which forms the front of the finished box, the base portion having a U-shaped slot at each side, the slots to be hereinafter later described. At each side of the front section 10 are the ends 11 of the box articulated therefrom by scoring, and appended to ends 11 are compartment walls 12.

To compartment walls 12 which form a part of the back of the box depend compartment partitions 13. These are each of the depth of the box and walls 12 may be one half the width of the back of the box.

Each of the several sections described is separated from the other by parallel scores, there being six parallel scores upon the blank whereby to provide the front thereof, the ends of the box, and two walls of the two compartments provided therein.

The top of the device is formed from a section 14 articulated from section 10, and from said section 14, and at each side thereof, are wings 15.

At the outer side of said section 14 is a section 16 which forms one half of the outside wall of the back of the box which back is normally two laminations deep throughout. Depending from section 10 at the bottom thereof is a section 17 which has wings 18 at each side thereof, the material of the front 10, ends 11, and compartment walls 12 being cut away to provide intermediate the sections 10, 11 and 12, and section 17 with wings 18 an elliptical slot 30, part of which has heretofore been mentioned.

From 17 depends a section 19 which cooperates with section 16 to form the outer wall of the back of the device. In section 17 and at opposite sides thereof are two U-shaped slots 31, the purpose of which will later appear.

In the assembly of the box by articulation of the blank, scores being provided between all of the sections to provide for ready folding, the sections 10 and 14 are brought to a right angle, the wings 15 being articulated inwardly to a right angle in respect to section 14. Thereafter the ends 11 are folded relatively to section 10 and adhesively secured to wings 15. Section 12 and section 13 are folded inwardly at right angles, the abutting walls of section 13 generally being adhesively secured one to another.

Two compartments within the box are thus obtained with a reinforced wall therebetween. The ends of the device are also double walled above the openings formed at the bottoms thereof.

Next, the wings 18 are folded upon the bottom 17 and adhesively applied thereto. Thereafter the section or bottom 17 is folded to a right angle to the member 10, and following this the members 16 and 19 are brought in contact with the outer walls of sections 12 and adhesively secured thereto and to one another at their edges, thus completing the assembly of the box and providing two compartments.

Each of the compartments has a mouth 32 formed by the registration of the material about the slots 30 and 31, the edges of slot 31 registering with the edges of slot 30 in order that an opening will be provided permitting the bottom package of a series stacked in either compartment to be drawn therefrom by gripping the package between the thumb and one of the fingers.

A box of the type described may be filled with packages anterior to complete assembly or thereafter, as desired. When loaded with package merchandise, the device may be sealed about the mouths 32 thereof either by a sliding sleeve, by wrapping material, or in any other suitable manner until the device is delivered to a retail store where it is to be used. In such retail store, the mouths 32 are cleared of any obstruction used during shipping, and thereafter the device is kept on display in a vertical position resting upon the bottom 17. Clerks or customers may pull from either mouth 32 thereof, as desired, packages one at a time until the two compartments are emptied of the packaged merchandise contained in stacked relation in the two vertical parts of said box.

Thus, a neat dispensing carton or container is provided from the blank shown in Figure 1 in which there are two or more stacks of merchandise, and from which package merchandise may be conveniently drawn one package at a time. Such an arrangement provides a highly effective dispensing system for merchandise, and deters shoplifting. Forming as it does, a dispensing device, the petty thief is not interested in a device from which he can draw but one package at a time, and prefers to take a handful of packages, if he is going to pilfer at all.

Such a device because of its handiness insures that it will be placed upon the counter for self service, this making it a display device, and in this respect, it possesses an advantage over the conventional carton which is used only for storage purposes and is normally kept out of view.

The size of the vertical compartments may be changed by shortening the width of the partition walls 12. The partitions 13 will remain the same width and reach to the wall 10 but the partitions 13 are then not contiguous and hence are not glued together. The carton will be sturdy, however, for the flaps 16 and 17 will engage the walls 12 and

be adhesively secured thereto. This permits a quick change in the device to meet changes in the size of packages dispensed therefrom without disturbing the external walls which are generally printed and lithographed. This means that no new printing plates are needed when there is a change in package size. Ordinarily, a package change means a total destruction of all cartons.

The arrangement of the device in respect to wings and flaps is such that the packages dispensed therefrom are readily removed without clogging.

In Figures 5 and 6, a modified form of the invention is disclosed. This particular type of invention is intended to be used when no adhesive is applied and so that the device may be readily assembled with the storage columns therein filled with packages, the structure being locked by slots and tongues in portions of section 160 and 190, corresponding to sections 16 and 19 of the first illustrated form of the invention.

In Figure 5, the side blank 160 is shown. Therein is disposed two angular slots having two sections, 161 and 162.

In Figure 6, a modified form of side blank 19, designated 190, is employed. This section comprises two wings 191 and 192 at each side and which are separated by notches. Intermediate wings 192 is a centrally disposed notch 193.

In the assembly of the device, each wing is adapted to be forced into a slot comprising sections 161 and 162, the inter-locking of said wings within said slots being facilitated by the notch 193 intermediate wings 192 so that there is no necessity to damagingly deform the material of 190 in order to force the wings 192 into the slot sections 161 and 162. Lateral play between opposite wings 192 is thus possible in the assembling operation.

Locking of parts 160 and 190 normally will maintain the whole device in correctly assembled relation.

I claim:

1. A carton suitable for dispensing articles of merchandise, and comprising a sheet of material articulated to provide a plurality of vertically parallel sections, each section having a discharge opening extending across one side thereof and into the front and back thereof.

2. A carton suitable for the counter dispensing of merchandise, and comprising a sheet of material articulated to provide a plurality of vertical parallel sections, each section having a discharge opening in three planes, one of which planes extends entirely across one side of each section, the other planes being normal to said first mentioned plane.

3. A blank of sheet material having a main body for forming the front and with extensions at the edges thereof for forming the

sides, top, bottom and back of a carton, the extensions of material from said main body comprising the sides of the carton being divided by scores into three portions one of which portions forms a part of the back of the carton and another a part of a dividing portion, there being a slot extending wholly across the side forming portion and partly across the main body and the back forming portions, the bottom and top forming extensions depending from said main body and having opposed lateral wings, the wings on the top forming extensions each being of a length equal in width to the major transverse dimension of the carton and the wings on the bottom forming extensions each being of a length equal to one half of the major transverse dimension of the carton, the material of said top and bottom forming extensions beyond said wings being of the same width as the carton and one half its height and forming a part of the back of the carton, that portion of the extension forming part of lower portion of said back having opposed slots complementary to the slots in said main body when said blank is folded, whereby the resulting carton has two separated sections to hold merchandise, each section with a discharge opening equal to the width of the carton and extending into the material at the front and back thereof and has two laminations of material at the back, in the dividing partition therein, and on the bottom.

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